SMD COMMON MODE LINE FILTER

CM02 SERIES

FEATURES:

- Ferrite Core bobbin construction
- High frequency and Large current
- Excellent Mechanical Strength
- Excellent Solderability
- Excellent Frequency performance
- Low Profile and Low cost

COMMON APPLCATIONS:

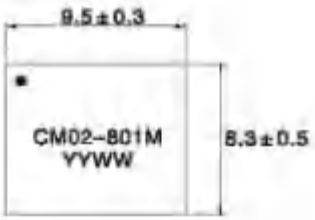
- Video Cameras
- Communication System
- Automotive Systems
- Liquid Crystal Televisions
- Hard Disk Drives
- Network Systems
- Computer Peripheral Equipment

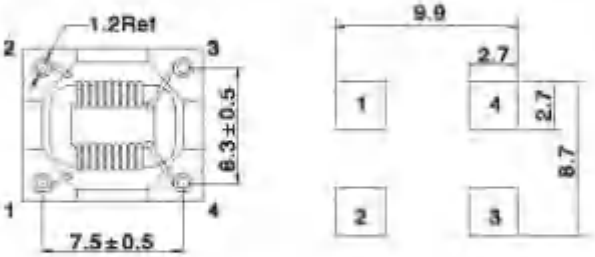
ELECTRICAL CHARACTERISTICS@25℃

Part Number	Inductance (uH) Typ.	Impedance (Ω) ±25% @100MHz	Rated current (A)	DCR (mΩ)Max
CM02-501M	5.0	500	5.0	5.5
CM02-801M	9.0	800	3.5	13.2
CM02-102M	11.0	1000	2.5	30.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)

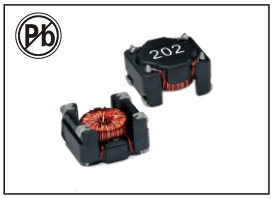




Note:

- Inductance Testing: 1KHz 1V HP4284A
- Z test with HP4191A or HP4395A
- RDC:QuadTech 1880 Milliohmmeter
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃℃ to +105℃℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.



COMMON MODE CHOKES FOR LINE FILTER

CM4001 SERIES

FEATURES:

- Current rating up to 1.4A
- Inductance range: 120 to 5000uH
- Frequency range to 200 MHz
- RoHS compliant

OPTIONS:

- Packaging:Tape & Reel is standard
  Bulk packaging available for smaller quantities

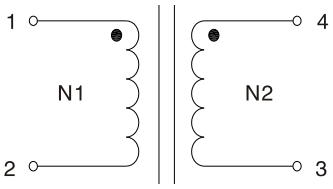
COMMON APPLICATIONS:

- EMI suppression
- DC–DC Converter
- Input/Output line fitter
- RFI noise suppression

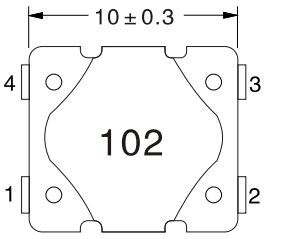
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 40%	Lk uH(Max)	DCR(Ω) each winding	Impedance(Z)		Rated voltage (Vdc)	Rated current (A)
				Freq. range (MHz)	Min Value (Ω)		
CM4001–121Y	120	1.45	0.025	10–200	200	50	1.40
CM4001–251Y	250	3.2	0.035	5–100	400	50	1.19
CM4001–501Y	500	5.6	0.070	2–50	800	50	0.84
CM4001–102Y	1000	12	0.180	1–40	1400	50	0.52
CM4001–202Y	2000	0.23	0.270	0.5–15	2000	50	0.40
CM4001–302Y	3000	0.26	0.330	0.5–10	3000	50	0.35
CM4001–402Y	4000	0.27	0.550	0.5–5	4000	50	0.30
CM4001–472Y	4700	0.28	1.000	0.6–3	6200	50	0.25
CM4001–502Y	5000	0.29	0.620	0.5–3	5000	50	0.25

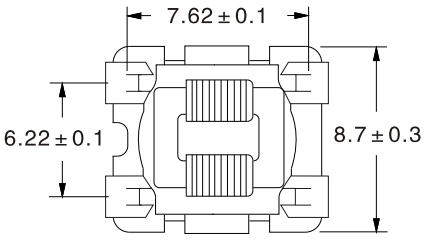
SCHEMATIC



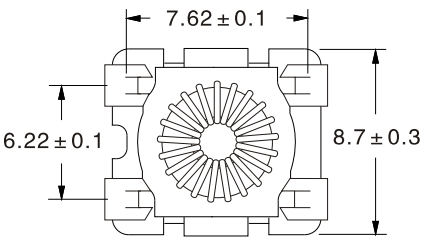
PHYSICAL CHARACTERISTICS(Dimensions:mm)



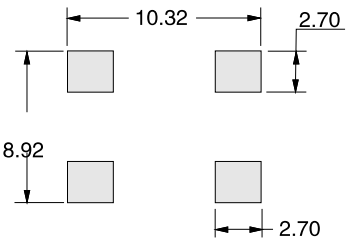
121Y–102Y



202Y–502Y



NOTES:
1. Temperature Rise: 45℃ at rated current
2. Hi–Pot: 1000 Vrms,60Hz,3mA,1min
   @120–1000uH
   300 Vrms,60Hz,3mA,1min
   @2000–5000uH
3. Operating Temperature:
   –40℃ to +105℃(Temperature rise included)
4. Storage Temperature:
   –40 ℃ to +105℃
   Solderability: 245℃ for 5 sec
5. Core Material .....Ferrite
6. Base .....Phenolic
7. Wire .....Enameled copper
8. Terminal coating .....Sn
9. Packaging.....800 pcs. per 13–inch reel



Recommended Layout

Note:All specifications subject to change without notice.

COMMON MODE LINE CHOKES – EE STYLES

EE25 Series

- Common mode chokes are used to reduce AC line conducted interference produced by switching power supplies.
- This configuration produces opposing magnetic fluxes in the core that serve to cancel in-phase noise signals appearing across the AC line.
- This mode allows much more filtering capability in a given core size than would be possible using differential filtering alone. Use of common mode chokes therefore reduces component count as well as inductor size.
- Combining both common and differential mode chokes gives the power supply designer the added flexibility required to adjust the filtering to meet FCC, VDE, and other requirements as well as optimize the circuit for the particular noise levels and frequencies produced by each power supply design.

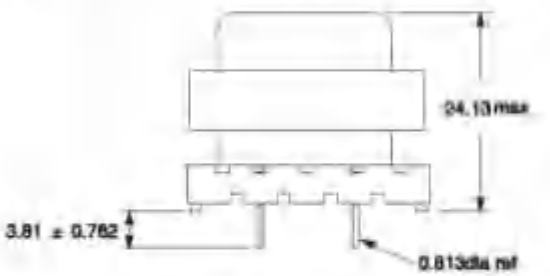
FEATURES:

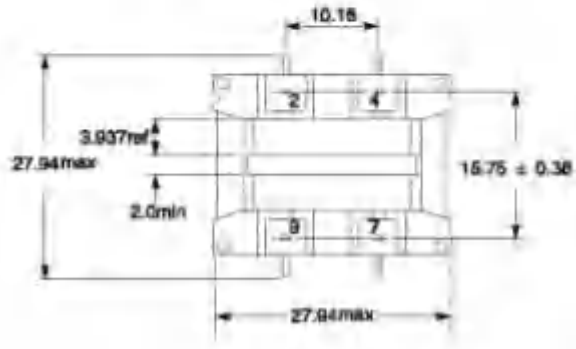
- 3 mm creepage and clearance from all terminations to the core
- 3750 Vrms, one minute isolation between windings
- UL1446 Class B (130℃) Insulation System (UL File E83628)
- Ambient temperature range: -40℃ to +85℃

STANDARD SPECIFICATION@25℃:

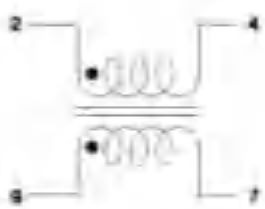
Part Number	Inductance (uH) Min 1KHz,0.1V	DCR (Ω)Max	Current range (A)
EE25-181Y-4.0A	188	0.016	4.0
EE25-301Y-3.0A	300	0.029	3.0
EE25-481Y-2.5A	468	0.044	2.5
EE25-731Y-2.0A	731	0.069	2.0
EE25-112Y-1.5A	1100	0.105	1.5
EE25-212Y-1.25A	2100	0.190	1.25
EE25-292Y-1.0A	2900	0.270	1.0
EE25-392Y-0.75A	3900	0.360	0.75
EE25-992Y-0.5A	9900	0.880	0.5

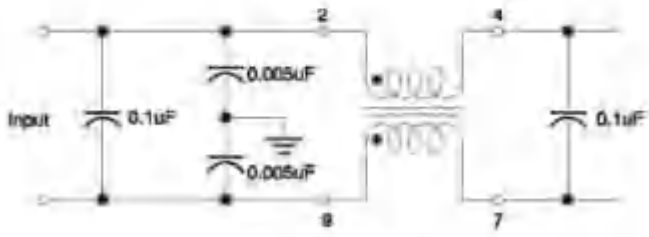
PHYSICAL CHARACTERISTICS





TECHNICAL INFORMATION:





Typical Application

COMMON MODE LINE CHOKES – EE STYLES HIGH INDUCTANCE

EE25H Series

- Common mode chokes are used to reduce AC line conducted interference produced by switching power supplies.
- This configuration produces opposing magnetic fluxes in the core that serve to cancel in-phase noise signals appearing across the AC line.
- This mode allows much more filtering capability in a given core size than would be possible using differential filtering alone. Use of common mode chokes therefore reduces component count as well as inductor size.
- Combining both common and differential mode chokes gives the power supply designer the added flexibility required to adjust the filtering to meet FCC, VDE, and other requirements as well as optimize the circuit for the particular noise levels and frequencies produced by each power supply design.

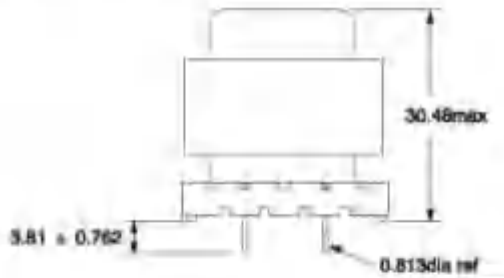
FEATURES:

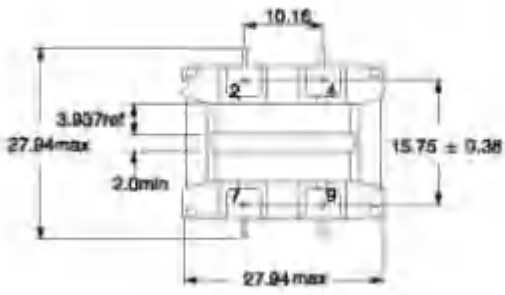
- 3 mm creepage and clearance from all terminations to the core
- 3750 Vrms, one minute isolation between windings
- UL1446 Class B (130℃) Insulation System (UL File E83628)
- Ambient temperature range: –40℃ to +85℃

STANDARD SPECIFICATION@25℃:

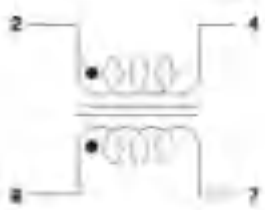
Part Number	Inductance (uH) Min. 1KHz,0.1V	DCR (Ω)Max	Current range (A)
EE25H-281Y-4.0A	286	0.022	4
EE25H-501Y-3.0A	508	0.037	3
EE25H-791Y-2.5A	796	0.055	2.5
EE25H-122Y-2.0A	1240	0.087	2
EE25H-182Y-1.5A	1870	0.130	1.5
EE25H-362Y-1.25A	3600	0.230	1.25
EE25H-492Y-1.0A	4900	0.350	1
EE25H-662Y-0.75A	6600	0.50	0.75
EE25H-163Y-0.5A	16800	1.260	0.5

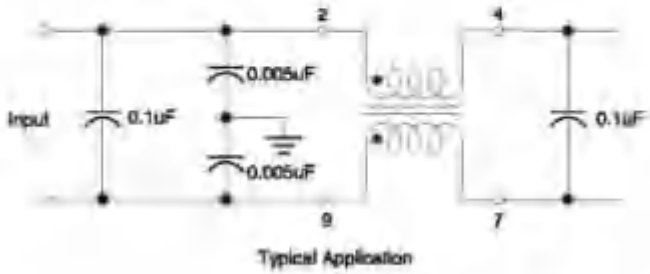
PHYSICAL CHARACTERISTICS





TECHNICAL INFORMATION:





Typical Application

COMMON MODE POWER LINE CHOKE

ET2018H SERIES

FEATURES:

- Closed rectangular ferrite core
- 2 section winding for excellent high frequency performance
- 1% stray inductance for symmetrical interference suppression

APPLICATIONS:

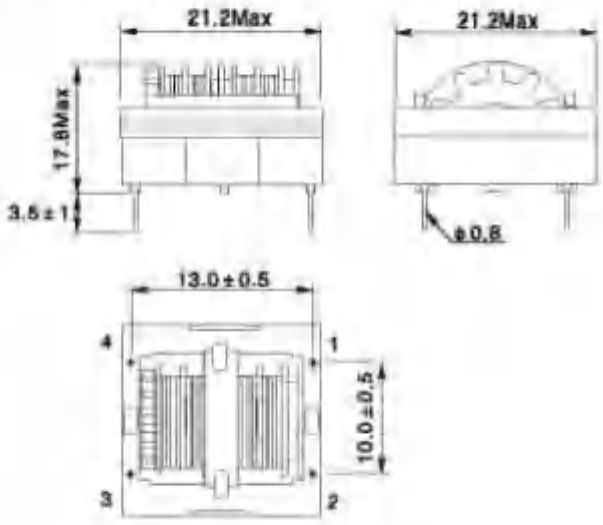
- Switch mode power supplies
- Suppression of common mode noise
- Compact switch mode power supplies
- Electronic ballast applications(LED bulb)
- Lighting

ELECTRICAL CHARACTERISTICS:

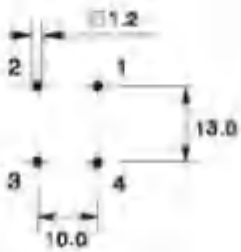
Part Number	L (mH)Min	Rated Current (A)	RDC max. (Ω)
ET2018H-821Y	0.82	2.0	0.066
ET2018H-182Y	1.8	1.5	0.15
ET2018H-272Y	2.7	1.2	0.225
ET2018H-332Y	3.3	1.1	0.25
ET2018H-392Y	3.9	1.0	0.25
ET2018H-562Y	5.6	0.8	0.4
ET2018H-682Y	6.8	0.8	0.48
ET2018H-103Y	10	0.6	0.72
ET2018H-183Y	18	0.5	1.17
ET2018H-223Y	22	0.4	1.8
ET2018H-333Y	33	0.3	2.0

PHYSICAL CHARACTERISTICS:

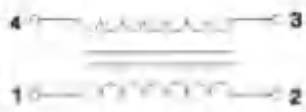
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

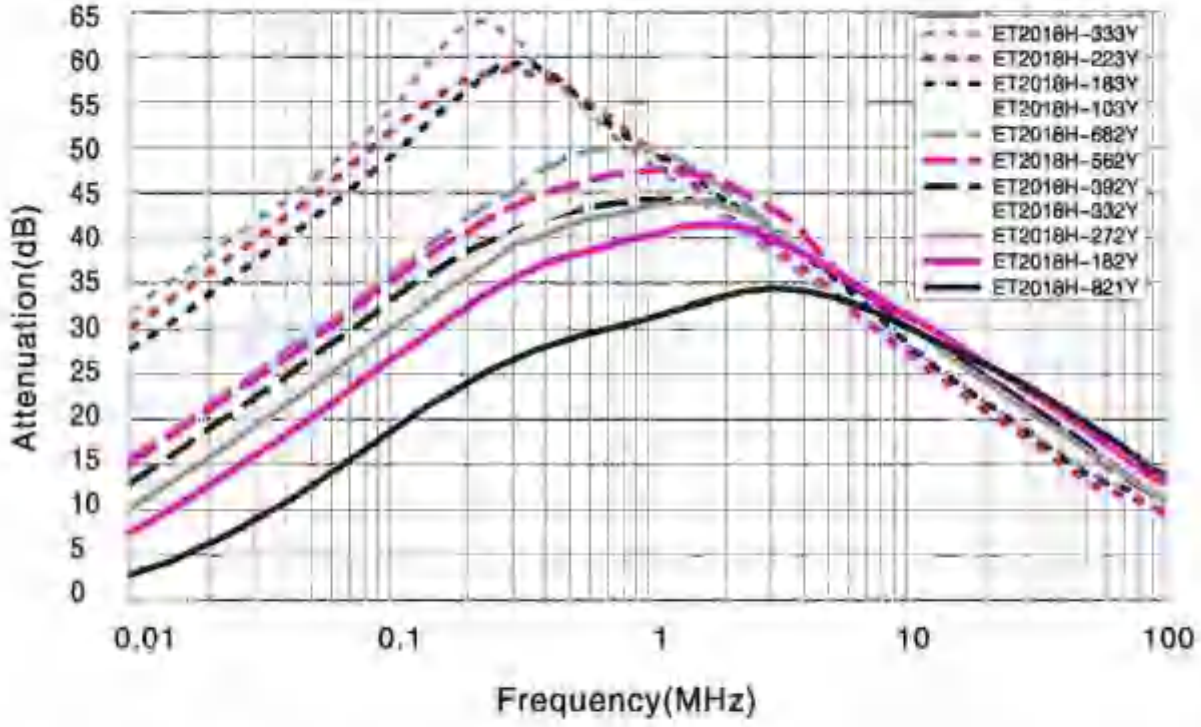
Frequency.....50/60Hz

Insulation test voltage.....2000V

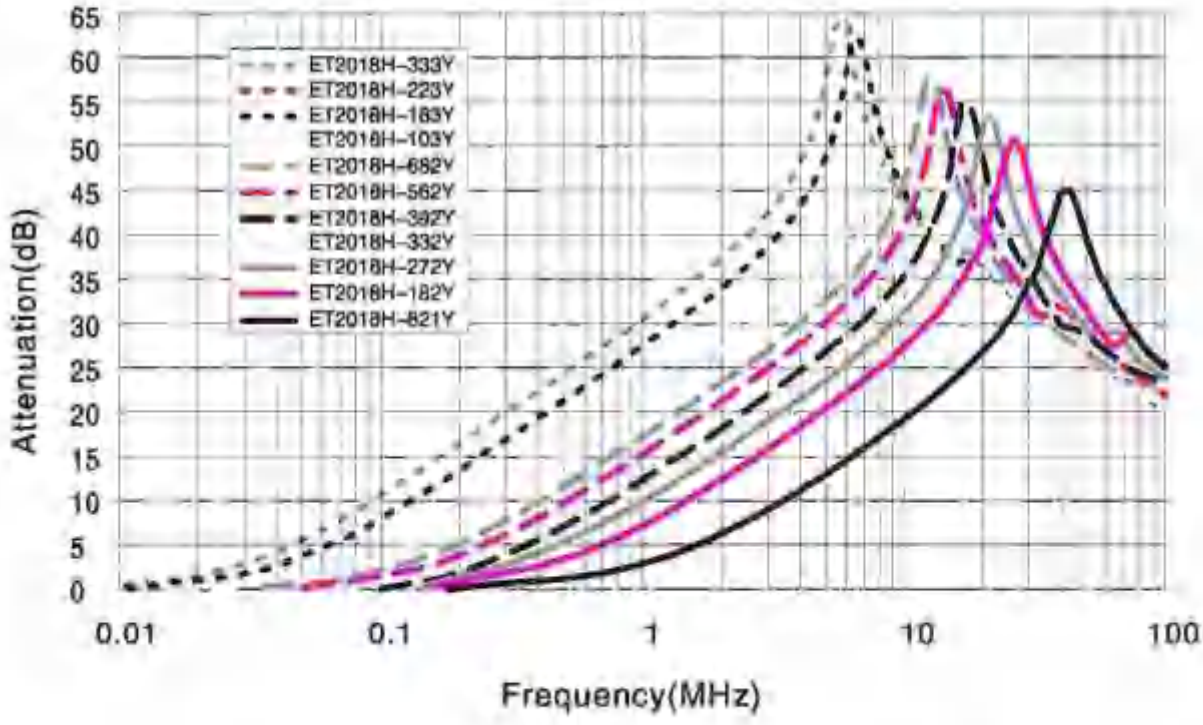
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

ET2422H SERIES

FEATURES:

- Closed rectangular ferrite core
- 2 section winding for excellent high frequency performance
- 1% stray inductance for symmetrical interference suppression

APPLICATIONS:

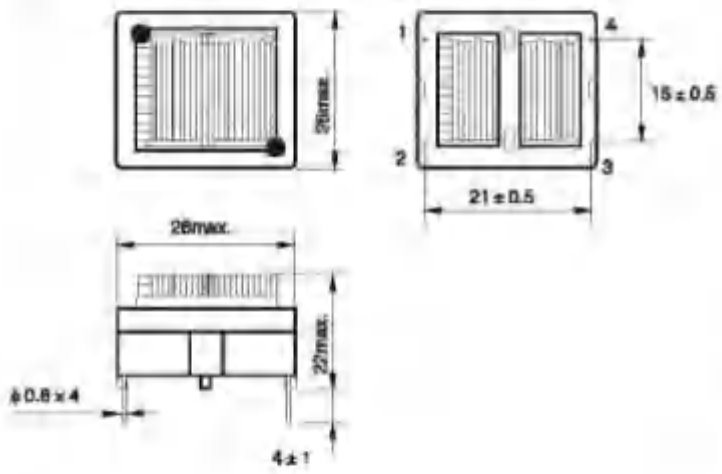
- Switch mode power supplies
- Suppression of common mode noise
- Compact switch mode power supplies
- Electronic ballast applications(LED bulb)
- Lighting

ELECTRICAL CHARACTERISTICS:

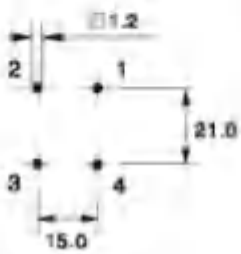
Part Number	Nominal Inductance (mH) Min.	Leakage Inductance (μH)Max.	D.C.R (Ω) Max.	Rated current I(A) Max.
ET2422H-663Y0R4	66	700	2.3	0.4
ET2422H-453Y0R5	45	600	1.65	0.5
ET2422H-333Y0R6	33	500	1.2	0.6
ET2422H-253Y0R8	25	400	0.88	0.8
ET2422H-203Y1H0	20	350	0.64	1.0
ET2422H-103Y1R2	10	250	0.36	1.2
ET2422H-452Y1R5	4.5	150	0.19	1.5
ET2422H-382Y1R8	3.8	150	0.15	1.8
ET2422H-332Y2R0	3.3	100	0.11	2.0
ET2422H-242Y2R5	2.4	95	0.09	2.5

PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern(in mm)



Winding

Notes:

Rated voltage.....250Vac

Frequency.....50/60Hz

Insulation test voltage.....2000V

Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

COMMON MODE POWER LINE CHOKE

ET2430V SERIES

FEATURES:

- Closed rectangular ferrite core
- 2 section winding for excellent high frequency performance
- 1% stray inductance for symmetrical interference suppression

APPLICATIONS:

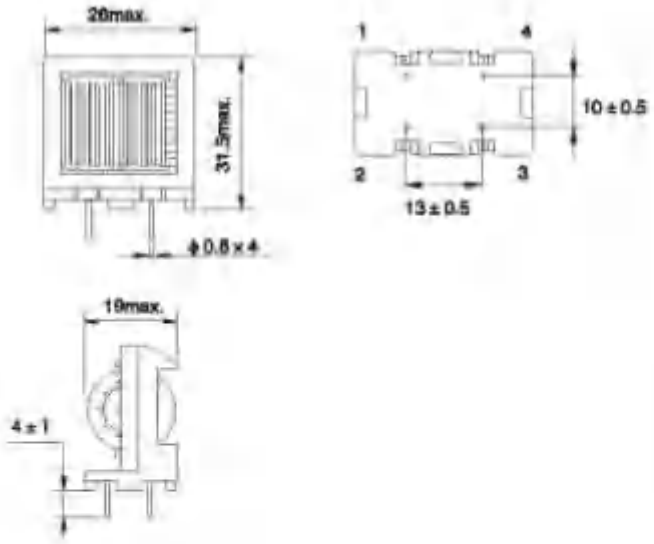
- Switch mode power supplies
- Suppression of common mode noise
- Compact switch mode power supplies
- Electronic ballast applications(LED bulb)
- Lighting

ELECTRICAL CHARACTERISTICS:

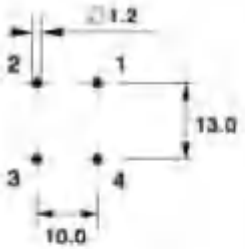
Part Number	Nominal inductance (mH) Min.	Leakage inductance (μH)Max.	D.C.R (Ω) Max.	Rated current I(A) Max
ET2430V-683Y0R4	68	700	2.3	0.4
ET2430V-453Y0R5	45	600	1.65	0.5
ET2430V-333Y0R6	33	500	1.2	0.6
ET2430V-253Y0R8	25	400	0.88	0.8
ET2430V-203Y1R0	20	350	0.64	1.0
ET2430V-103Y1R2	10	250	0.36	1.2
ET2430V-452Y1R5	4.5	150	0.19	1.5
ET2430V-392Y1R8	3.9	150	0.15	1.8
ET2430V-332Y2R0	3.3	100	0.11	2.0
ET2430V-242Y2R5	2.4	65	0.09	2.5

PHYSICAL CHARACTERISTICS:

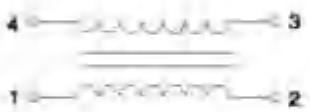
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

Frequency.....50/60Hz

Insulation test voltage.....2000V

Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

COMMON MODE POWER LINE CHOKE

ET2836H SERIES

FEATURES:

- Closed rectangular ferrite core
- 2 section winding for excellent high frequency performance
- 1% stray inductance for symmetrical interference suppression

APPLICATIONS:

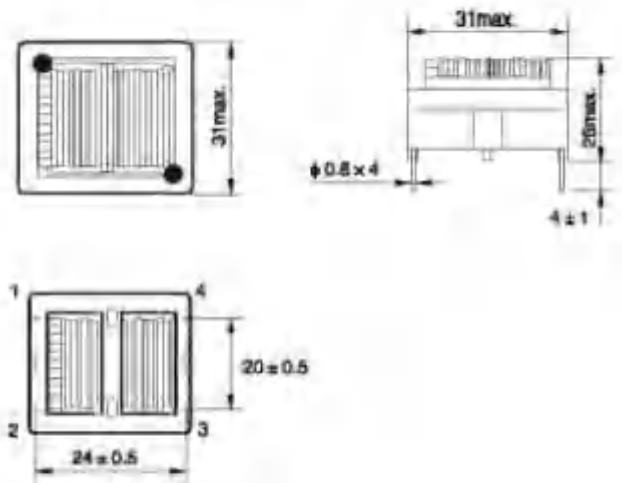
- Switch mode power supplies
- Suppression of common mode noise
- Compact switch mode power supplies
- Electronic ballast applications(LED bulb)
- Lighting

ELECTRICAL CHARACTERISTICS:

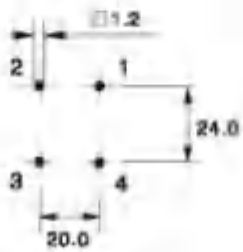
Part Number	Nominal Inductance (mH) Min.	Leakage Inductance (μH)Max.	D.C.R (Ω) Max.	Rated current I(A) Max.
ET2836H-353Y1R0	35	650	0.78	1.0
ET2836H-253Y1R2	25	500	0.58	1.2
ET2836H-203Y1R5	20	400	0.41	1.5
ET2836H-123Y1R8	12	300	0.27	1.8
ET2836H-802Y2R0	8	200	0.18	2.0
ET2836H-562Y2R5	5.6	200	0.13	2.5
ET2836H-472Y2R8	4.7	150	0.10	2.8
ET2836H-332Y3R0	3.3	100	0.089	3.0
ET2836H-182Y4R0	1.8	40	0.05	4.0

PHYSICAL CHARACTERISTICS:

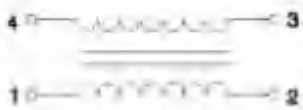
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

Frequency.....50/60Hz

Insulation test voltage.....2000V

Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

COMMON MODE POWER LINE CHOKE

ET2836V SERIES

FEATURES:

- Closed rectangular ferrite core
- 2 section winding for excellent high frequency performance
- 1% stray inductance for symmetrical interference suppression

APPLICATIONS:

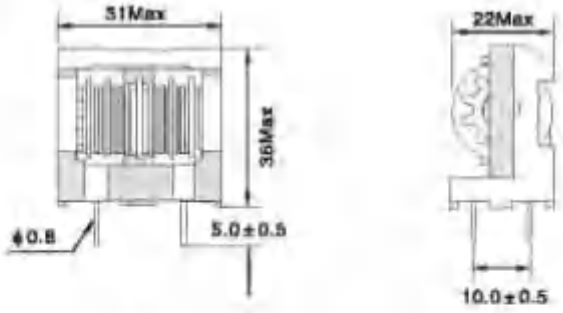
- Switch mode power supplies
- Suppression of common mode noise
- Compact switch mode power supplies
- Electronic ballast applications(LED bulb)
- Lighting

ELECTRICAL CHARACTERISTICS:

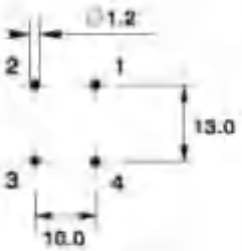
Part Number	Nominal Inductance (mH) Min.	Leakage Inductance (μH)Max.	D.C.R (Ω) Max.	Rated current (A) Max.
ET2836V-353Y1R0	35	650	0.78	1.0
ET2836V-253Y1R2	25	500	0.56	1.2
ET2836V-203Y1R5	20	400	0.41	1.5
ET2836V-123Y1R8	12	300	0.27	1.8
ET2836V-802Y2R0	8	200	0.18	2.0
ET2836V-562Y2R5	5.6	200	0.13	2.5
ET2836V-472Y2R8	4.7	150	0.10	2.8
ET2836V-332Y3R0	3.3	100	0.088	3.0
ET2836V-182Y4R0	1.8	40	0.05	4.0

PHYSICAL CHARACTERISTICS:

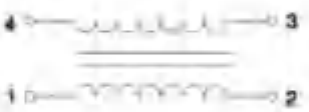
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

Frequency.....50/60Hz

Insulation test voltage.....2000V

Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

COMMON MODE POWER LINE CHOKE

ET3435V SERIES

FEATURES:

- Approximate 1% stray inductance for symmetrical interference suppression
- Closed rectangular ferrite core
- Attenuation up to 75dB with high rated current

APPLICATIONS:

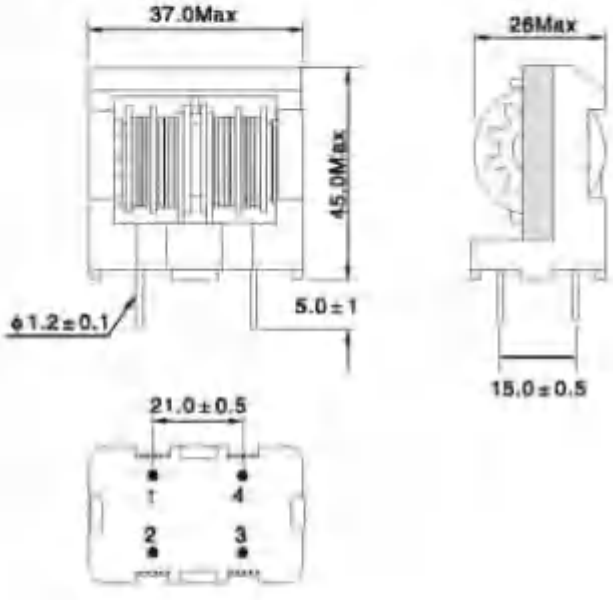
- Switch mode power supplies
- Suppression of common mode noise
- Mains filter
- Electronic ballast applications
- Lighting

ELECTRICAL CHARACTERISTICS:

Part Number	L (mH)+50%/-30%	Rated Current (A)	RDC max. (Ω)
ET3435V-392Y	3.9	8.0	50
ET3435V-103Y	10	3.4	110
ET3435V-223Y	22	2.5	200
ET3435V-563Y	56	1.5	630
ET3435V-104Y	100	1.25	900

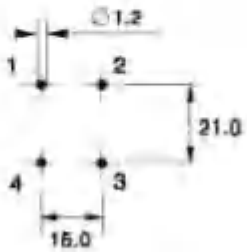
PHYSICAL CHARACTERISTICS:

Dimensions 1



Bottom view

Hole pattern(in mm)



Winding

Notes:

Rated voltage.....250Vac

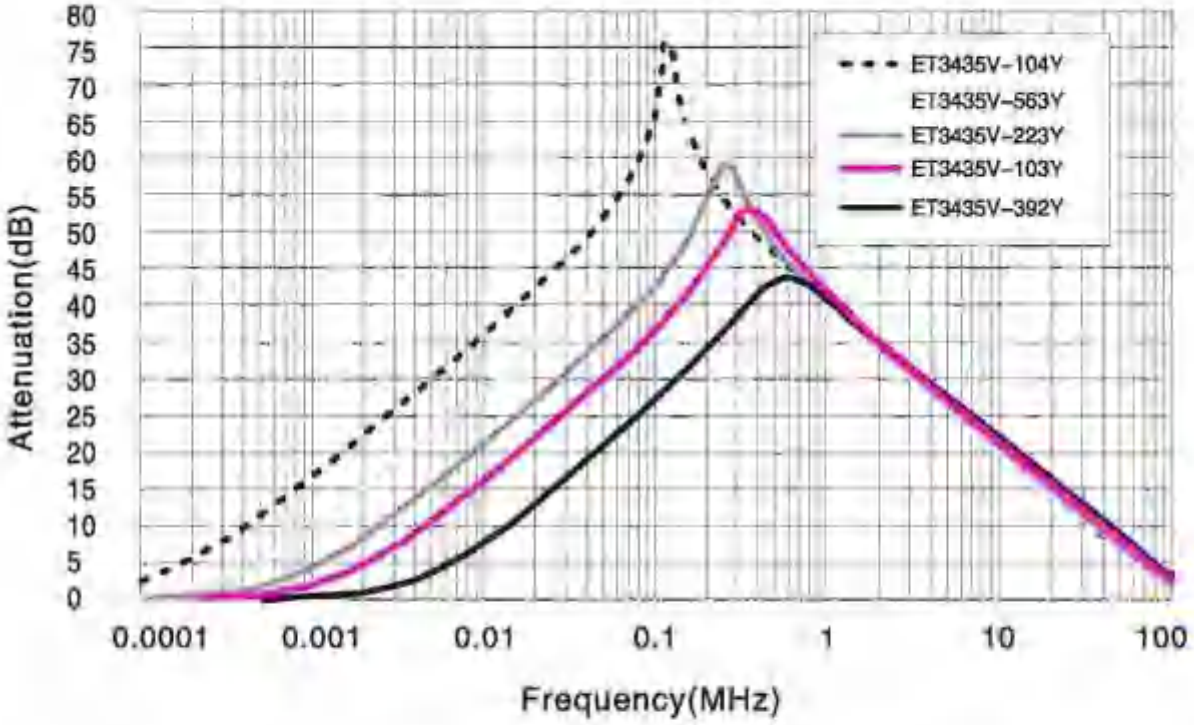
Frequency.....50/60Hz

Insulation test voltage.....2000V

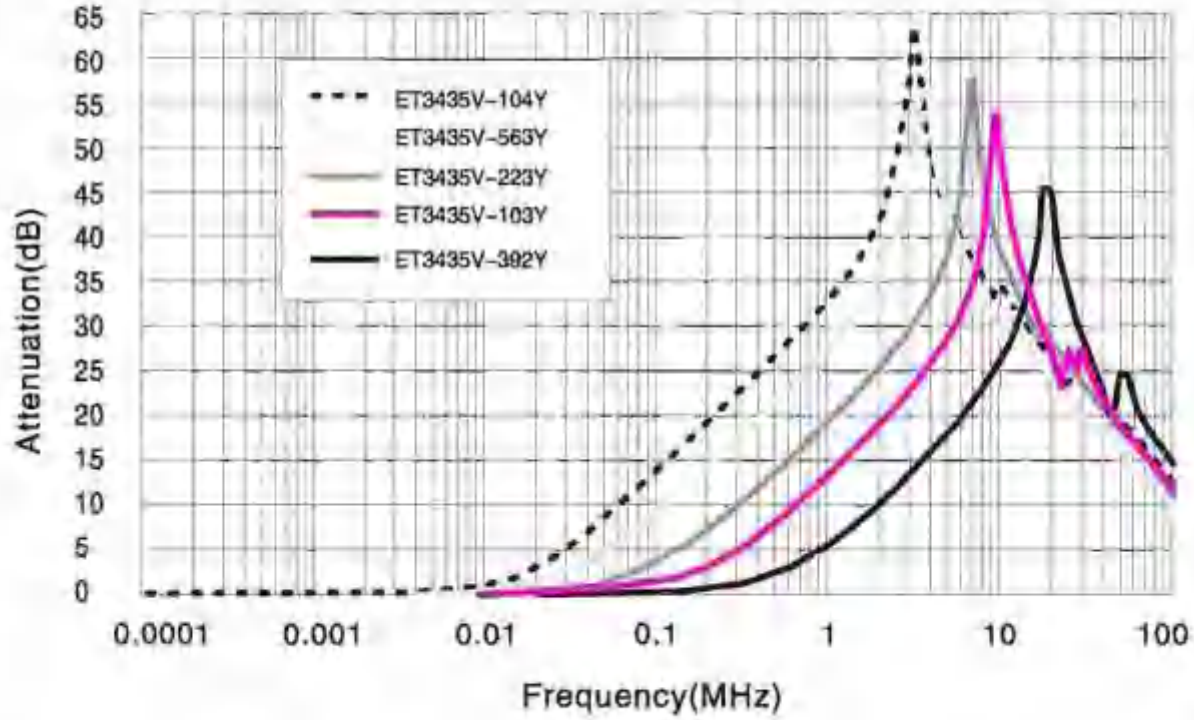
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE

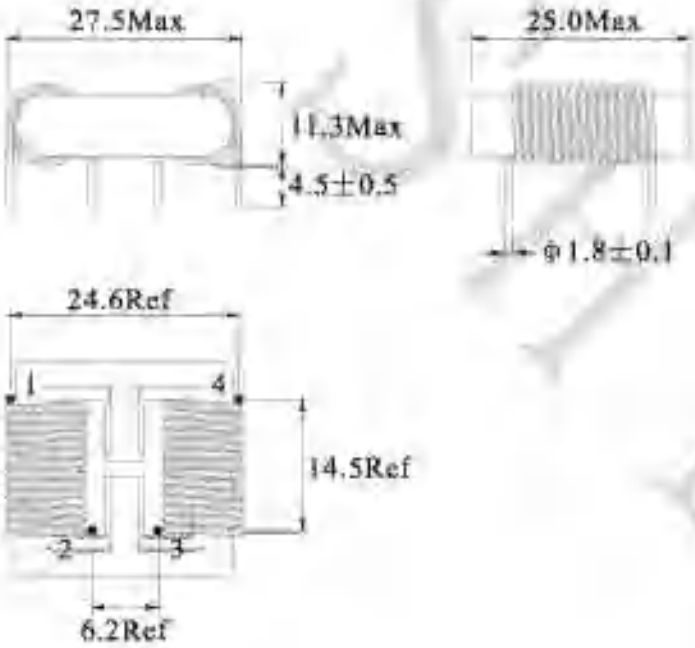


ATTENUATION DIFFERENTIAL MODE



Rev.	Description	Date
A0	New release	2022.08.08

1.PHYSICAL CHARACTERISTICS(mm)



Bottom view

2.ELECTRONICAL SCHEMATIC

3.ELECTRONICAL SPECIFICATIONS

Inductance: 150uH±40%@10KHz,0.1V

LK: 5.6uH Max@10KHz,0.1V

RDC: 1.9mΩ Max

Rated current: 20A Max

Rated voltage: 250Vac

Hi-Pot: 1500Vac,5mA,2S N1 to N2

Operating temperature: -40℃ to +115℃

Storage temperature: -40℃ to +60℃

Test Instrument:

L: HP4284A

RDC: HM2540

Note:

1.Solderability:leads shall meet MIL-STD-202, Method 208D for solderability.

2.Flammability: UL94V-0

3.ASTM oxygen index: >28%

NAME:	Common mode inductor		
CUSTOMER P/N:	7448680180	DATE:	2022-08-08
SHINHOM P/N:	ETV2320H-151Y-20A	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

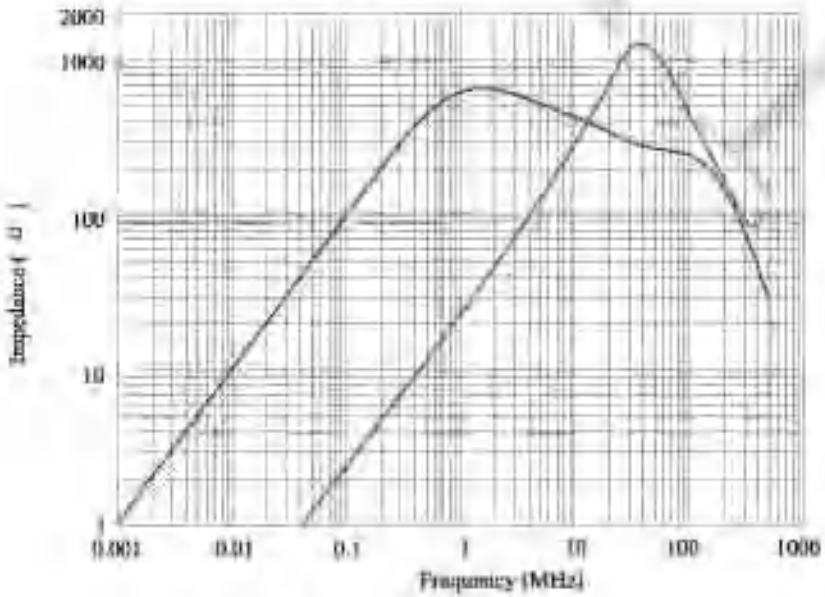
SHINHOM

SHINHOM

SHAANXISHINHOM ENTERPRISE CO LTD

Test Setup

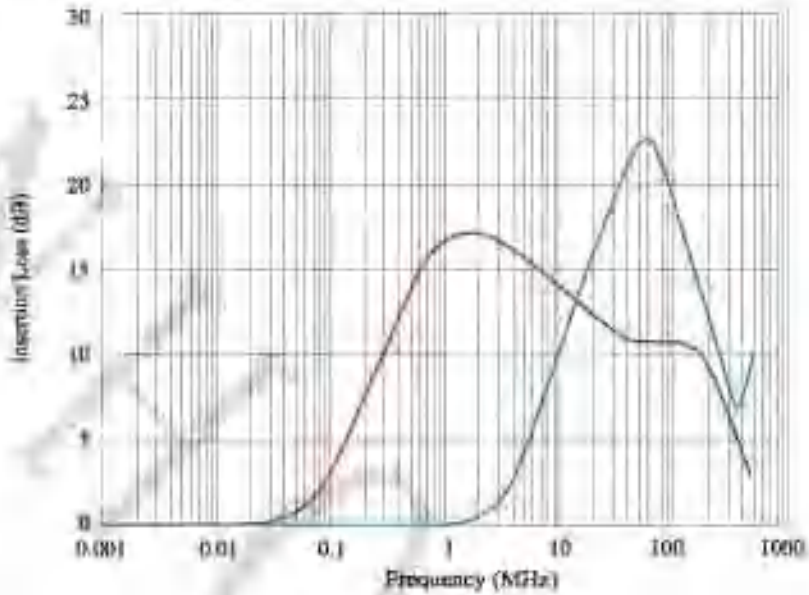
Impedance VS Frequency



Common mode: ——

Differential mode: ——

Insertion loss VS Frequency



Common mode: ——

Differential mode: ——

NAME:	Common mode inductor		
CUSTOMER P/N:	7448680180	DATE:	2022-08-08
SHINHOM P/N:	ETV2320H-151Y-20A	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

SHINHOM

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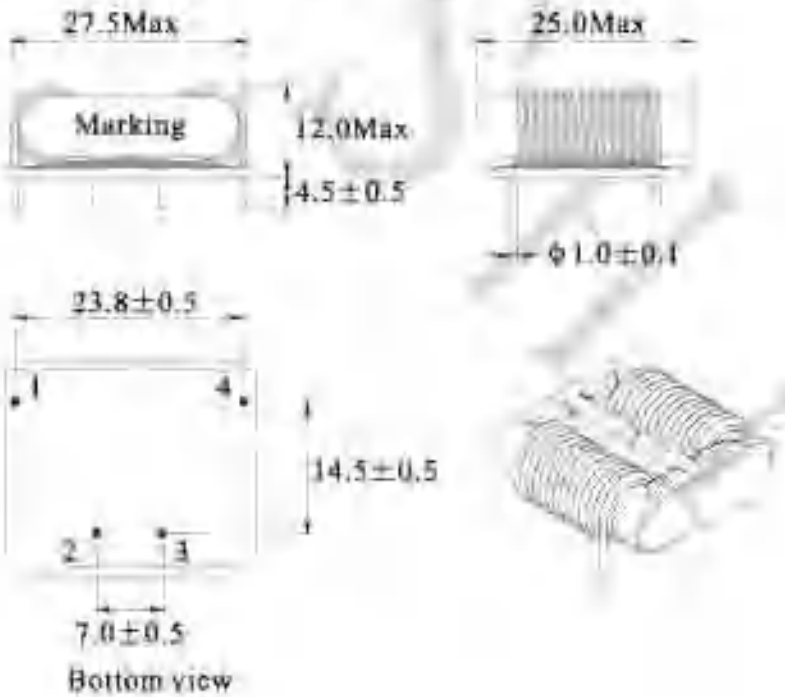
SHAANXISHINHOM ENTERPRISE CO LTD

Rev.	Description	Date
A0	New release	2021.11.05

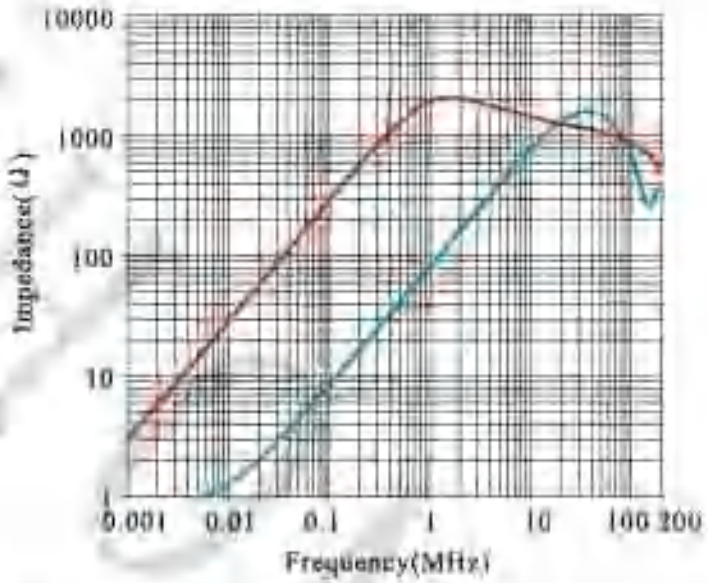
1.PHYSICAL CHARACTERISTICS(mm)



2.ELECTRONICAL SCHEMATIC

3.ELECTRONICAL SPECIFICATIONS

Inductance: 450uH±40%@10KHz,0.1V
LK: 200uH Max@10KHz,0.1V
RDC: 9.6mΩMax
Rated current: 10A Max
Rated voltage: 250Vac
Hi-Pot: 1500Vac,5mA,2S N1 to N2
Operating temperature -40℃ to+115℃
Storage temperature: -40℃ to +60℃



NAME:	Common mode inductor		
CUSTOMER P/N:	7448680100	DATE:	2021-11-05
SHINHOM P/N:	ETV2320H-451Y-10A	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

SHINHOM

SHINHOM

SHAANXI SHINHOM ENTERPRISE CO.,LTD

COMMON MODE CHOKES

LFU26 SERIES

FEATURES:

- 1A to 3A ratings,low temperature rise
- 3.3mH to 30mH dual chokes
- Excellent Mechanical Strength
- High Reliability and variant PCB–mount housing
- Low resistance and temperature rise

APPLICATIONS:

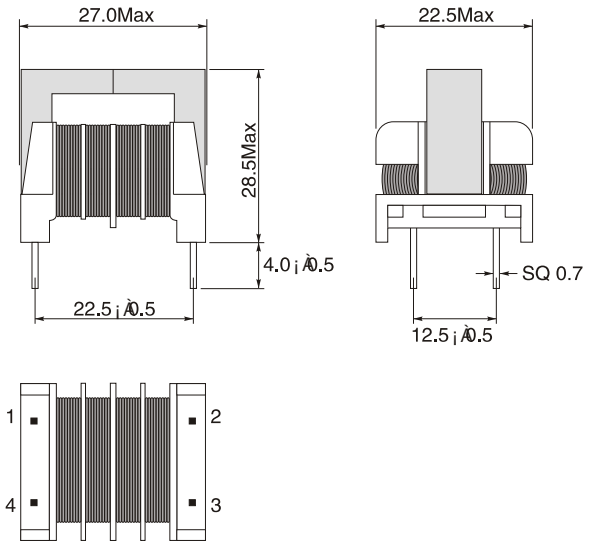
- EMC/EMI suppressors
- Suitable for all kinds of 100 ~ 500W power supply, electronic ballasts, LED power supply

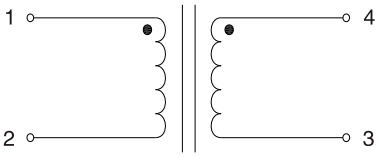
ELECTRICAL CHARACTERISTICS@25℃

Part Number	Inductance (mH) +50%/–30%	Test condition	Wire (mm)	IDC (A)Max
LFU26–332Y	3.3	10KHz,0.05V	ϕ0.1*60P	3.0
LFU26–682Y	6.8	10KHz,0.05V	ϕ0.65	2.8
LFU26–153Y	15	10KHz,0.05V	ϕ0.65	2.1
LFU26–253Y	25	10KHz,0.05V	ϕ0.5	1.2
LFU26–303Y	30	10KHz,0.05V	ϕ0.4	1.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)

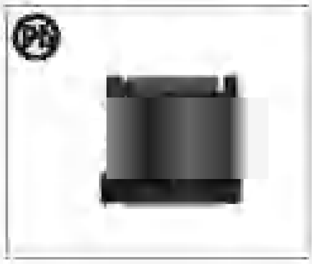




- Inductance Testing: 10KHz 0.05V HP4284A
- Test conditions of Electrical Properties: +25℃, 33% RH if not specified differently
- Rated Current:The current when temperature of coil increases up to Max. △T=40℃ (Ta=25℃)
- It is recommended that the temperature of the component does not exceed +125℃ under worst case conditions
- Operating temperature: –50℃ to +110℃
- Storage Temperature: –20℃℃ to +60℃
- Hi–Pot: 1000Vac/50Hz,3mA,1min. Winding to Winding
- Insulation Resistance: 100 MΩ Min when DC 500V between Winding to Winding
- Due to the limited space, the catalogue shows the typical specifications only. For more Specific details (characteristics graph, reliability, and others)
- Acceptable customers design custom

COMMON MODE CHOKES

LFU28 SERIES



FEATURES:

- 0.3A to 0.8A ratings, low temperature rise
- 3.3mH to 30mH dual chokes
- Excellent Mechanical Strength
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

APPLICATIONS:

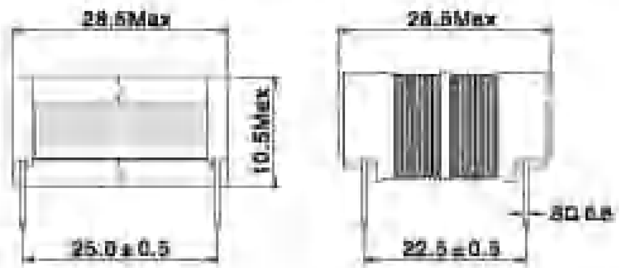
- EMC/EMI suppressors
- Suitable for all kinds of 100 - 250W power supply, electronic ballasts, LED power supply

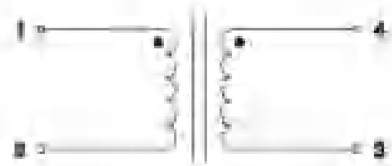
ELECTRICAL CHARACTERISTICS@25℃

Part Number	Inductance (mH) +50%/-30%	Test condition	Wire (mm)	IDC (A)Max
LFU28-332Y	3.3	10KHz,0.25V	φ0.4	0.8
LFU28-682Y	6.8	10KHz,0.25V	φ0.38	0.6
LFU28-153Y	15	10KHz,0.25V	φ0.32	0.5
LFU28-253Y	25	10KHz,0.25V	φ0.28	0.4
LFU28-303Y	30	10KHz,0.25V	φ0.25	0.3

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)

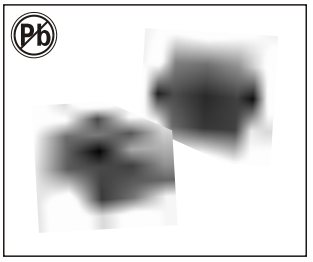




- Inductance Testing: 10KHz 0.25V HP4284A
- Test conditions of Electrical Properties: +25℃, 33% RH if not specified differently
- Rated Current: This current when temperature of coil increases up to Max. ΔT=40℃ (Ta=25℃)
- It is recommended that the temperature of the component does not exceed +125℃ under worst case conditions
- Operating temperature: -40℃ to +110℃
- Storage Temperature: -20℃ to +80℃
- Hi-Pot: 1000Vac/50Hz 3mA, 1min. Winding to Winding
- Insulation Resistance: 100 MΩ Min when DC 500V between Winding to Winding
- Due to the limited space, the catalogue shows the typical specifications only. For more Specific details (characteristics graph, reliability, and others)
- Acceptable customers design custom

COMMON MODE CHOKES

LFUR17 SERIES



FEATURES:

- High inductance with low resistance
- High pulse–handling capability
- Industry best inductance/rated current ratio
- Suitable for wave soldering

APPLICATIONS:

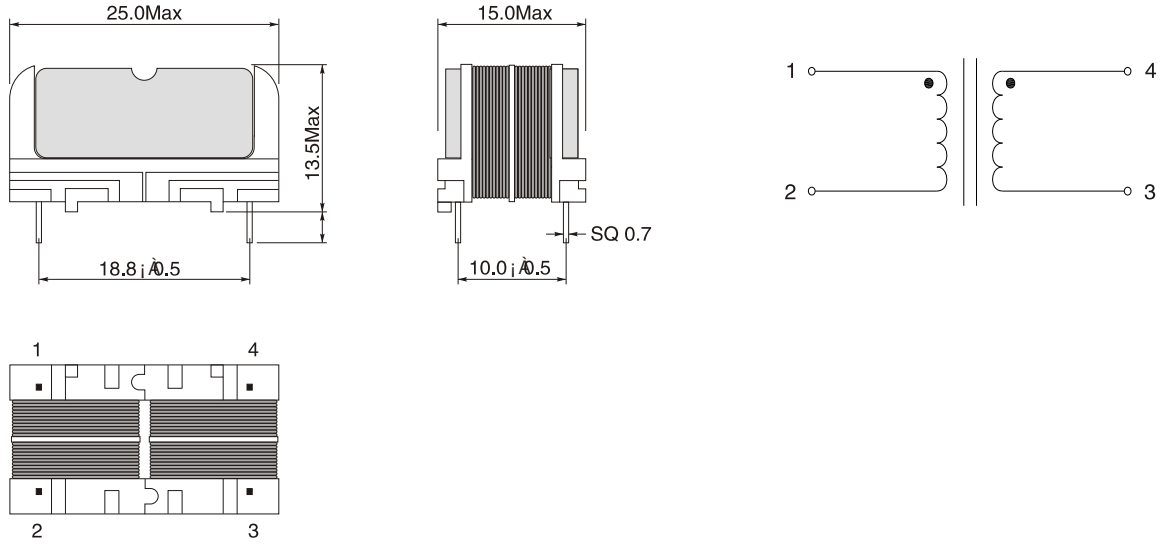
- Electronic ballasts for lamps
- High power switch–mode power suppliesfor consumer electronics

ELECTRICAL CHARACTERISTICS@25℃

Part Number	Inductance (mH) +50%/–30%	Test condition	DCR (mΩ)Max	IDC (A)Max
LFUR17–332Y	3.3	1KHz,0.25V	120	2.5
LFUR17–103Y	10	1KHz,0.25V	312	1.65
LFUR17–153Y	15	1KHz,0.25V	520	1.32
LFUR17–273Y	27	1KHz,0.25V	1000	0.92
LFUR17–393Y	39	1KHz,0.25V	1450	0.85
LFUR17–473Y	47	1KHz,0.25V	1650	0.75
LFUR17–683Y	68	1KHz,0.25V	1950	0.62
LFUR17–783Y	78	1KHz,0.25V	2500	0.58
LFUR17–104Y	100	1KHz,0.25V	3500	0.45

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

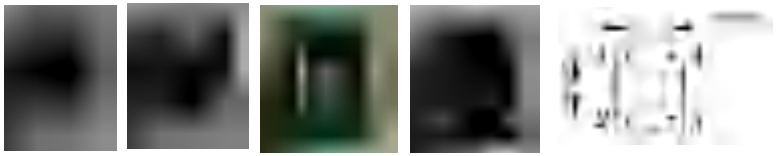
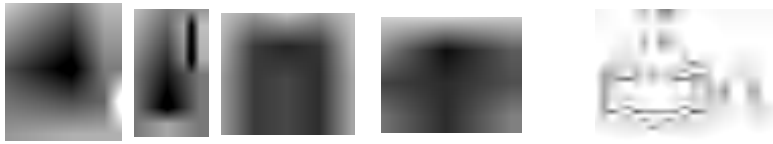
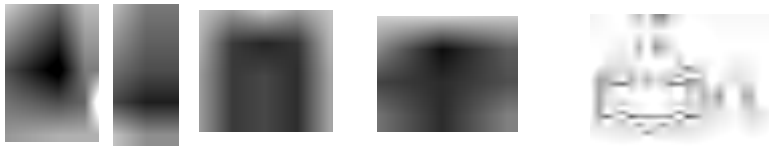
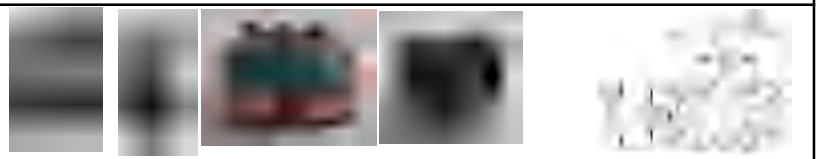
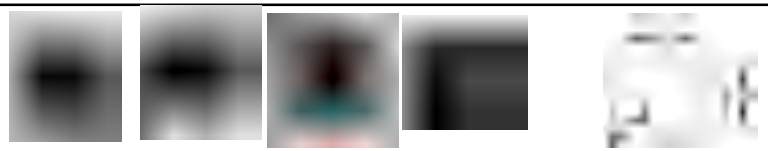
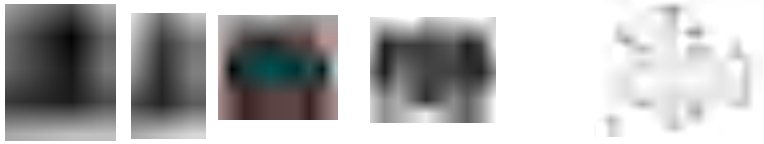
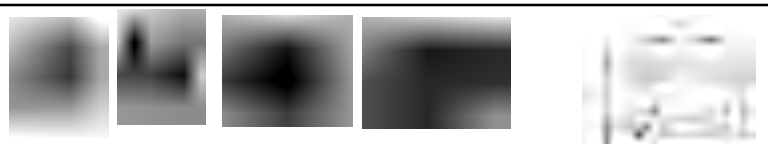
Dimensions(mm)



- Inductance Testing: 1.0KHz 0.25V HP4284A
- Test conditions of Electrical Properties: +25℃, 33% RH if not specified differently
- Temperature Rise 55℃ Max
- It is recommended that the temperature of the component does not exceed +125℃ under worst case conditions
- Operating temperature: –40℃ to +85℃
- Storage Temperature: –20℃℃ to +60℃
- Hi–Pot: 1500Vac/50Hz,3mA,2S Winding to Core
  2500Vac/50Hz,3mA,2S Winding to Winding
- Acceptable customers design custom

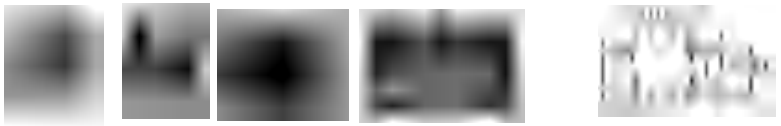
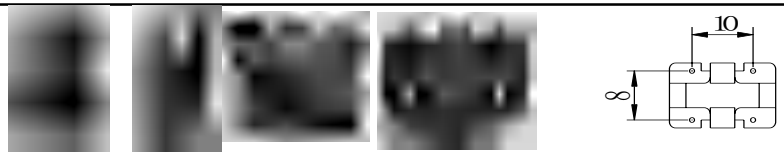
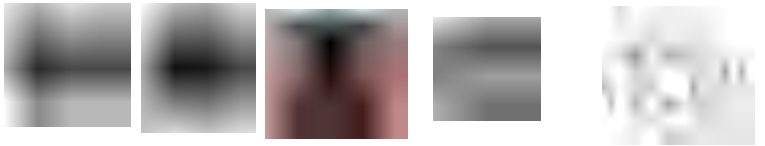
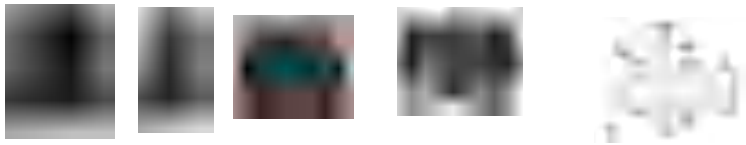
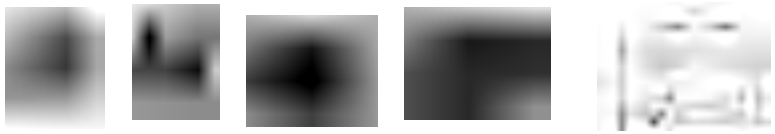
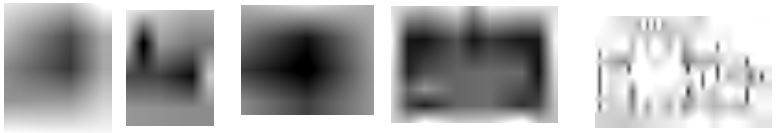
Flat wire common mode choke coil product list

E-mail: sales@shinhom.com.cn Tel: 029-87851838 Fax: 029-87851840 Http: www.shinhom.com

No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
1	FT10*8*5	0.5*7TS(内)	12 uH	20.0	3A	5*7 L: 11.0 W: 11.0 H: 10.0	
2	SQ1010	0.1*0.7*39TS	10mH	160.0	0.70	5.8*7 L: 14.5 W: 8.50 H: 13.5	
3	SQ1012	0.1*0.7*50	12mH	260.0	0.70	5.8*7 L: 14.5 W: 8.50 H: 15.5	
4	SQ1015	0.1*0.7*68	15.0mH	500.0	0.70	5.8*7 L: 14.5 W: 8.50 H: 18.0	
5	SQ1010	0.1*0.7*39TS	10mH	160.0	0.70	7*8 L: 11.0 W: 13.5 H: 9.5	
6	SQ1212	0.1*1.0*50TS	25mH	240.0	1.00	6*8 L:18.0 W:10.5 H:17.5	
7	SQ1212	0.1*1.0*50TS	25mH	240.0	1.00	7*8 L:18.0 W:11.5 H:17.5	

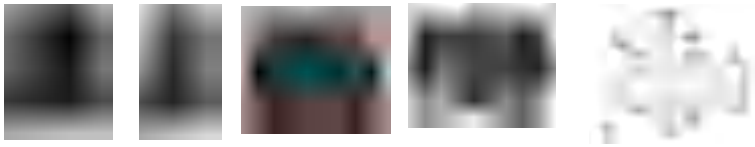
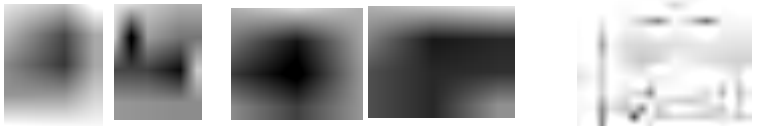
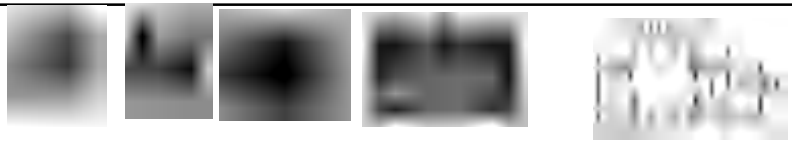
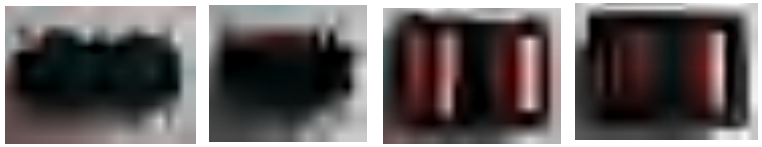
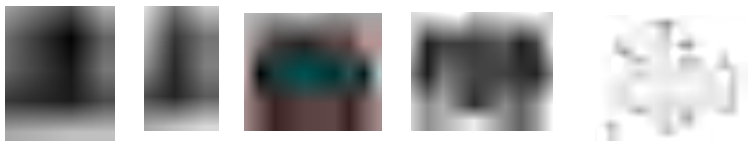
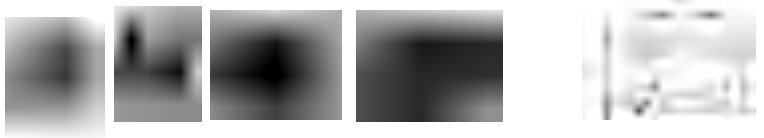
Flat wire common mode choke coil product list

E-mail: sales@shinhom.com.cn Tel: 029-87851838 Fax: 029-87851840 Http: www.shinhom.com

No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
8	SQ1212	0.1*1.0*50TS	25mH	240.0	1.00	8*11 L:18.0 W:11.5 H:17.5	
9	SQ1218	0.1*1.0*87TS	50mH	360.0	1.00	8*10 L:18.0 W:11.5 H:21.5	
10	SQ1212	0.1*1.0*50TS	25mH	240.0	1.00	10*13 L:17.0 W:14.5 H:12.0	
11	SQ1212	0.13*1.0*45TS	15mH	170.0	1.30	6*8 L:18.0 W:10.5 H:17.5	
12	SQ1212	0.13*1.0*45TS	15mH	170.0	1.30	10*13 L:17.0 W:14.5 H:12.0	
13	SQ1212	0.13*1.0*45TS	15mH	170.0	1.30	7*8 L:18.0 W:11.5 H:17.5	
14	SQ1212	0.13*1.0*45TS	15mH	170.0	1.30	8*11 L:18.0 W:11.5 H:17.5	

Flat wire common mode choke coil product list

E-mail: sales@shinhom.com.cn Tel: 029-87851838 Fax: 029-87851840 Http: www.shinhom.com

No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
15	SQ1212	0.15*1.0*38TS	10mH	120.0	1.50	立式:6*8 L:18.0 W:10.5 H:17.5	
16	SQ1212	0.15*1.0*38TS	10mH	120.0	1.50	立式:7*8 L:18.0 W:11.5 H:17.5	
17	SQ1212	0.15*1.0*38TS	10mH	120.0	1.50	立式:8*11 L:18.0 W:11.5 H:17.5	
18	SQ1212	0.15*1.0*38TS	10mH	140.0	1.50	卧式:10*13 L:17.0 W:14.5 H:12.0	
19	SQ1212	0.15*1.0*38TS	10mH	140.0	1.50	卧式: 11.2*15.6 L:15.0 W:20.0 H:9.0	
20	SQ1212	0.2*1.0*35TS	8mH	100.0	2.00	立式:6*8 L:18.0 W:10.5 H:17.5	
21	SQ1212	0.2*1.0*35TS	8mH	100.0	2.00	立式:7*8 L:18.0 W:11.5 H:17.5	

Flat wire common mode choke coil product list

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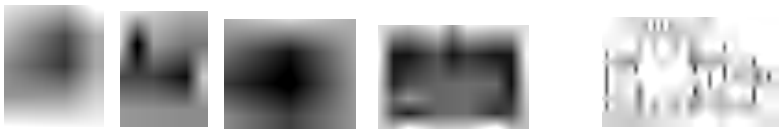
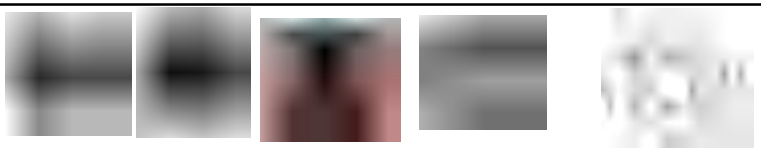
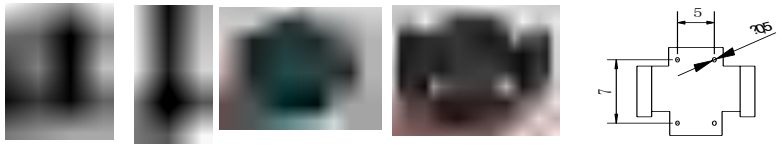
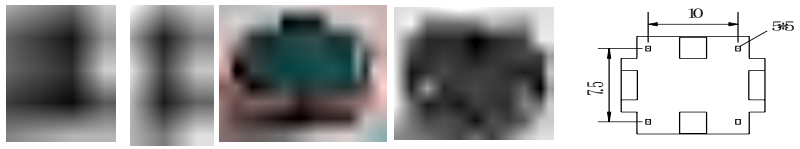
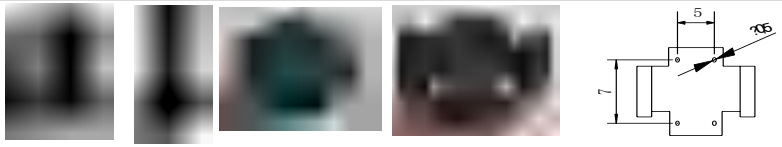
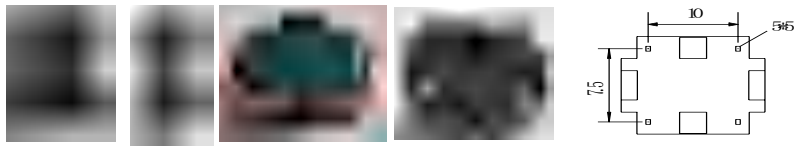
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
22	SQ1212	0.2*1.0*35TS	8mH	100.0	2.00	8*11 L:18.0 W:11.5 H:17.5	
23	SQ1212	0.2*1.0*35TS	8.0mH	100.0	2.00	10*13 L:17.0 W:14.5 H:12.0	
24	SQ1314	0.1*1.0*50TS	15.0mH	210.0	1.00	7*8 L:18.0 W:11.0 H:18.5	
25	SQ1314	0.13*1.0*44TS	10.0mH	180.0	1.30	5*7 L:19.0 W:11.5 H:19.0	
26	SQ1314	0.13*1.0*44TS	10.0mH	180.0	1.30	7.5*10 L:19.0 W:11.5 H:19.0	
27	SQ1314	0.15*1.0*40TS	9.0mH	160.0	1.50	5*7 L:19.0 W:11.5 H:19.0	
28	SQ1314	0.15*1.0*40TS	9.0mH	160.0	1.50	7.5*10 L:19.0 W:11.5 H:19.0	

Flat wire common mode choke coil product list

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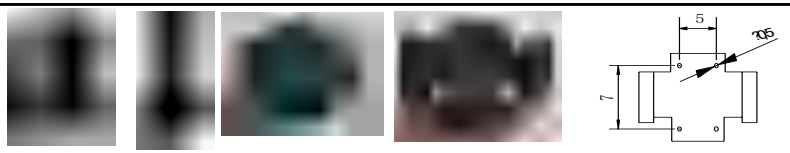
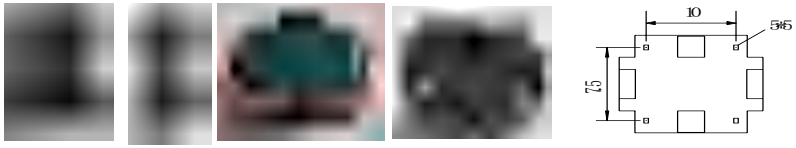
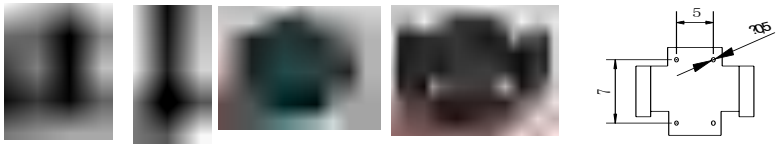
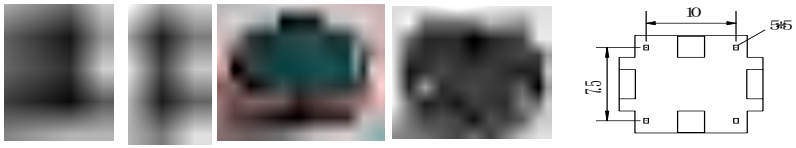
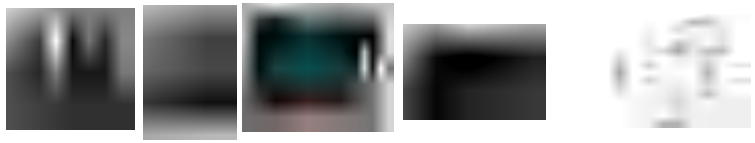
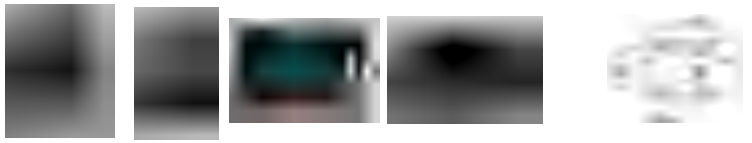
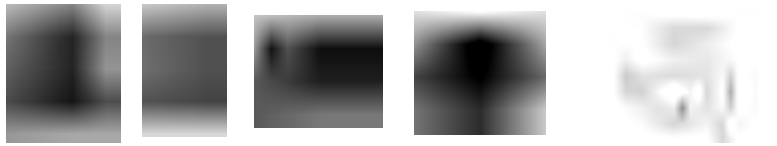
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
29	SQ1314	0.18*1.0*35TS	7.0mH	150.0	1.80	5*7 L:19.0 W:11.5 H:19.0	
30	SQ1314	0.18*1.0*35TS	7.0mH	150.0	1.80	7.5*10 L:19.0 W:11.5 H:19.0	
31	SQ1314	0.2*1.0*31TS	6.0mH	140.0	2.00	5*7 L:19.0 W:11.5 H:19.0	
32	SQ1314	0.2*1.0*31TS	6.0mH	140.0	2.00	7.5*10 L:19.0 W:11.5 H:19.0	
33	SQ1515	0.1*1.0*66TS	30.0mH	340.0	1.00	7.5*10 L:21.5 W:12.5 H:20.0	
34	SQ1515	0.1*1.0*66TS	30.0mH	340.0	1.00	8*10 L:21.5 W:12.5 H:21.0	
35	SQ1515	0.1*1.0*66TS	30.0mH	340.0	1.00	10*12.8 L:21.5 W:15.0 H:21.0	

Flat wire common mode choke coil product list

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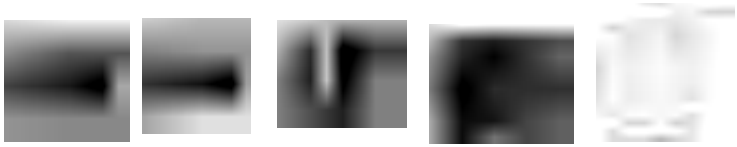
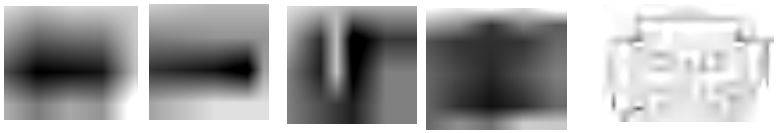
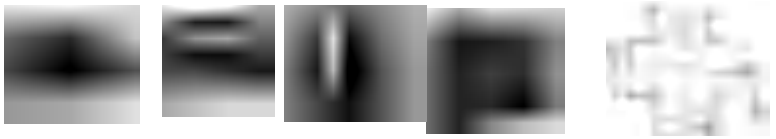
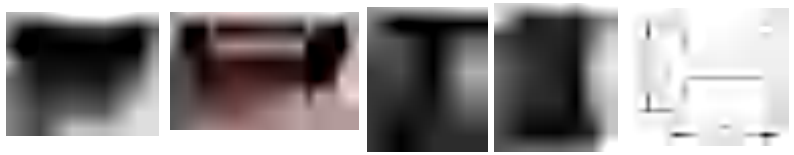
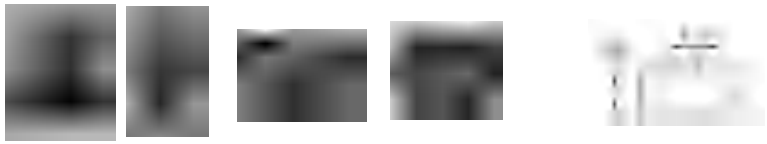
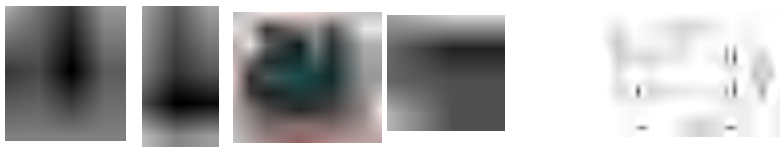
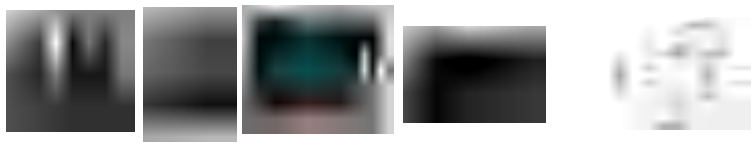
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
36	SQ1515	0.1*1.0*66TS	30.0mH	340.0	1.00	13*17 L:22.0 W:17.5 H:15.0	
37	SQ1515	0.1*1.0*66TS	30.0mH	340.0	1.00	9*13*17 L:22.0 W:17.5 H:15.0	
38	SQ1515	0.1*1.0*66TS	30.0mH	340.0	1.00	13.5*13.5 L:21.0 W:17.0 H:13.0	
39	SQ1518	0.1*1.0*85TS	50mH	500.0	1.00	17.0*21.0 L:21.0 W:25.0 H:9.5	
40	SQ1515	0.13*1.0*56TS	25mH	220.0	1.30	6*8 L:21.0 W:11.5 H:21.0	
41	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	6.5*10 L:21.5 W:12.5 H:21.0	
42	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	7.5*10 L:21.5 W:12.5 H:20.0	

Flat wire common mode choke coil product list

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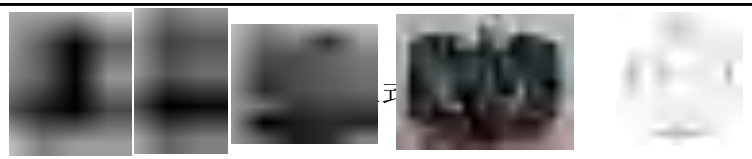
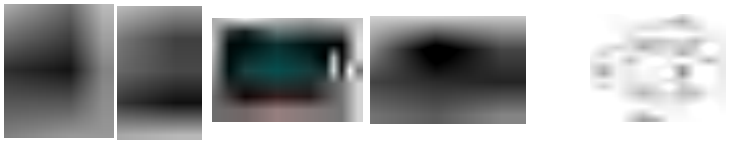
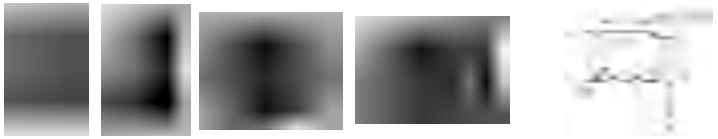
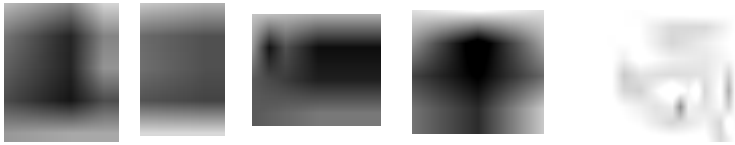
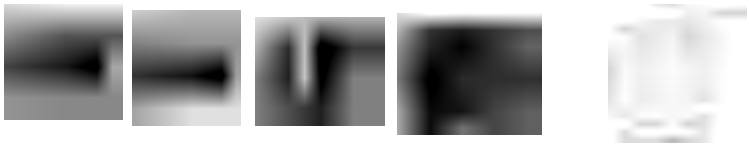
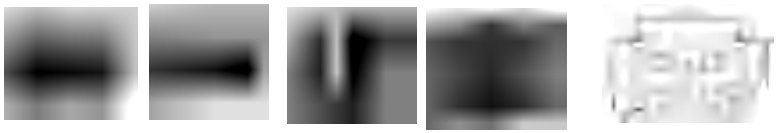
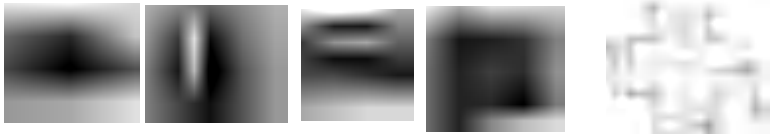
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
43	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	8*9 L:21.5 W:12.5 H:19.5	
44	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	8*10 L:21.5 W:12.5 H:21.0	
45	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	9*10.5 L:21.5 W:13.0 H:20.0	
46	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	10*12.8 L:21.5 W:15.0 H:21.0	
47	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	13*17 L:22.0 W:17.5 H:15.0	
48	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	9*13*17 L:22.0 W:17.5 H:15.0	
49	SQ1515	0.13*1.0*56TS	25mH	250.0	1.30	13.5*13.5 L:21.0 W:17.0 H:13.0	

Flat wire common mode choke coil product list

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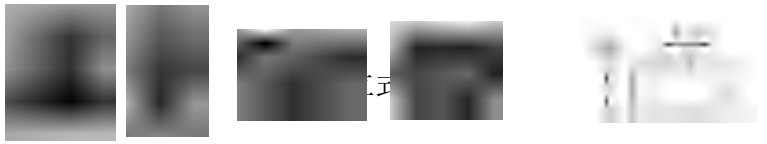
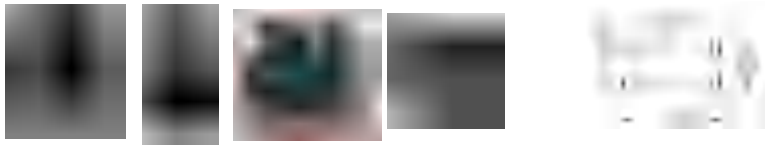
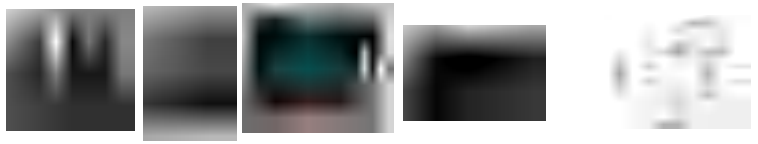
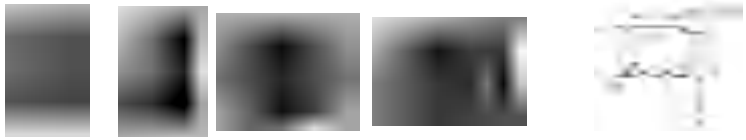
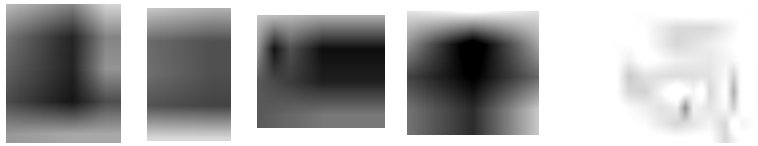
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
50	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	6*8 L:21.0 W:11.5 H:21.0	
51	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	6.5*10 L:21.5 W:12.5 H:21.0	
52	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	7.5*10 L:21.5 W:12.5 H:20.0	
53	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	8*9 L:21.5 W:12.5 H:19.5	
54	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	8*10 L:21.5 W:12.5 H:21.0	
55	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	9*10.5 L:21.5 W:13.0 H:20.0	
56	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	10*12.8 L:21.5 W:15.0 H:21.0	

Flat wire common mode choke coil product list

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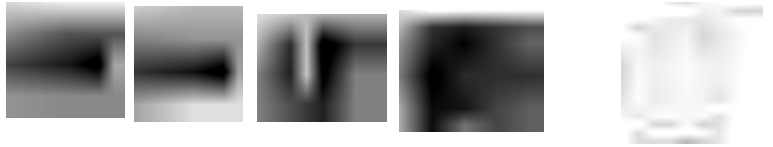
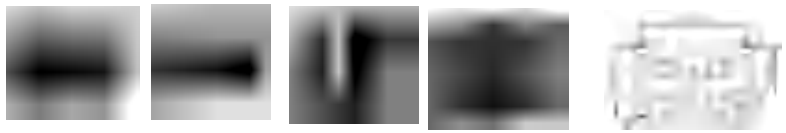
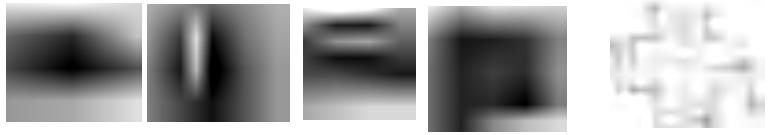
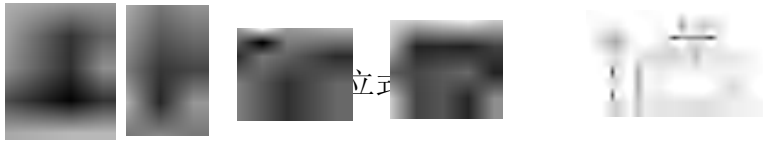
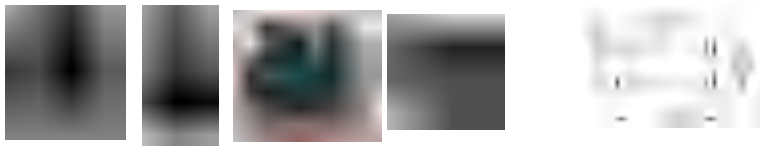
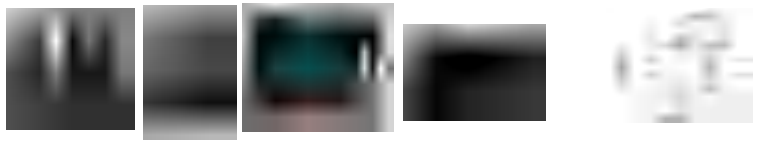
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
57	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	13*17 L:22.0 W:17.5 H:15.0	
58	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	9*13*17 L:22.0 W:17.5 H:15.0	
59	SQ1515	0.15*1.0*50TS	20mH	200.0	1.50	13.5*13.5 L:21.0 W:17.0 H:13.0	
60	SQ1515	0.18*1.0*43TS	18.0mH	180.0	1.80	6*8 L:21.0 W:11.5 H:21.0	
61	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	6.5*10 L:21.5 W:12.5 H:21.0	
62	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	7.5*10 L:21.5 W:12.5 H:20.0	
63	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	8*9 L:21.5 W:12.5 H:19.5	

Flat wire common mode choke coil product list

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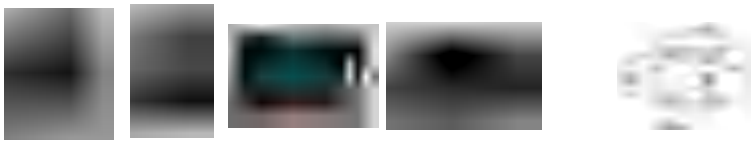
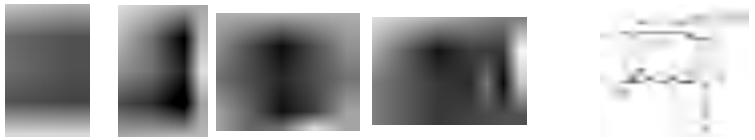
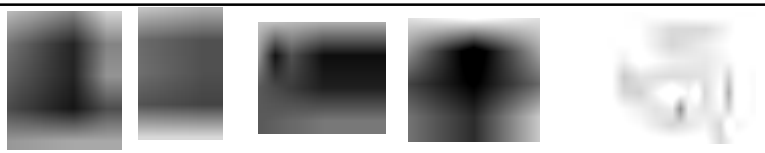
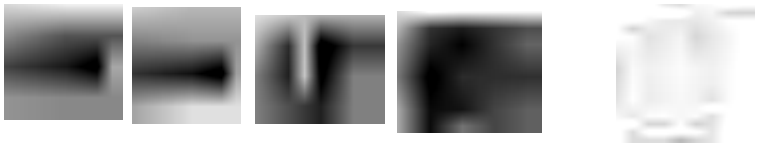
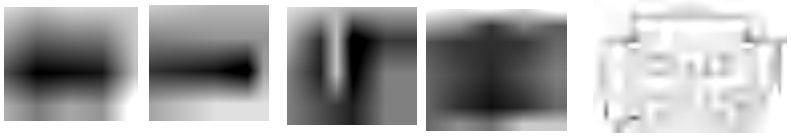
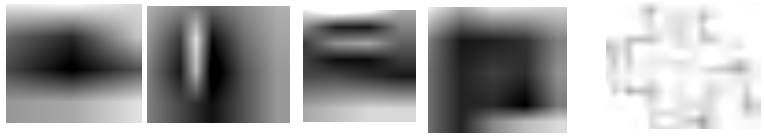
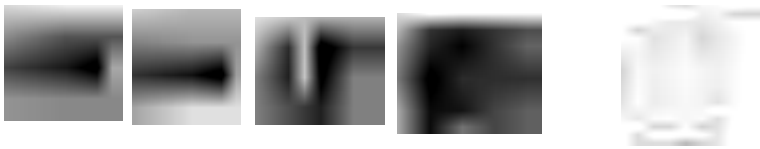
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
64	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	8*10 L:21.5 W:12.5 H:21.0	
65	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	9*10.5 L:21.5 W:13.0 H:20.0	
66	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	10*12.8 L:21.5 W:15.0 H:21.0	
67	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	13*17 L:22.0 W:17.5 H:15.0	
68	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	9*13*17 L:22.0 W:17.5 H:15.0	
69	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	13.5*13.5 L:21.0 W:17.0 H:13.0	
70	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	13*17 L:22.0 W:17.5 H:15.0	

Flat wire common mode choke coil product list

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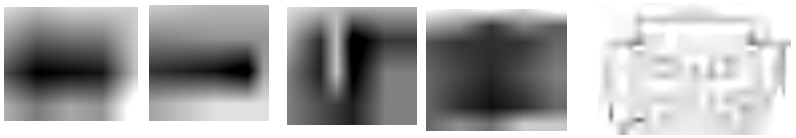
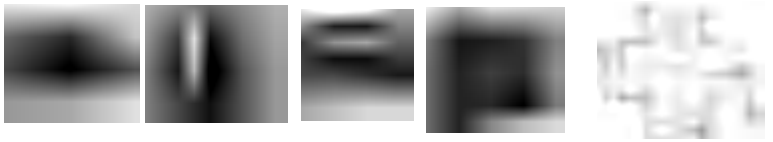
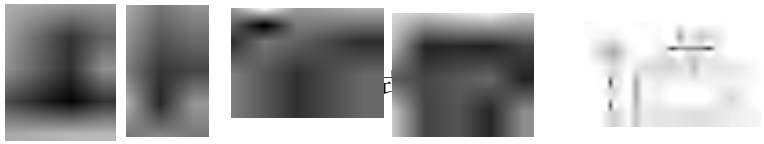
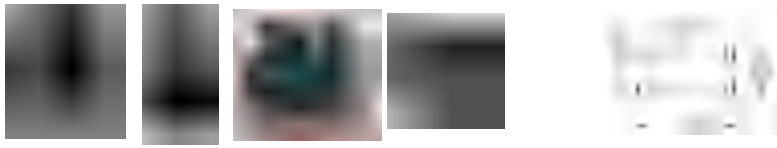
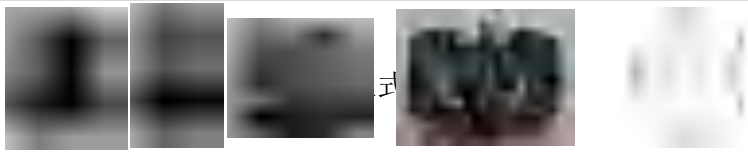
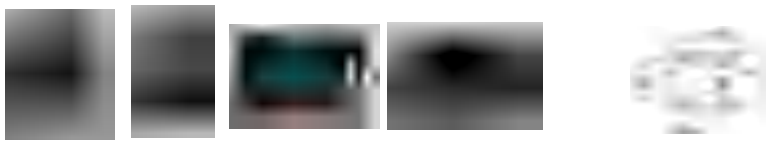
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
71	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	9*13*17 L:22.0 W:17.5 H:15.0	
72	SQ1515	0.18*1.0*42TS	18.0mH	180.0	1.80	13.5*13.5 L:21.0 W:17.0 H:13.0	
73	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	6*8 L:21.5 W:11.5 H:21.0	
74	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	6.5*10 L:21.5 W:12.5 H:21.0	
75	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	7.5*10 L:21.5 W:12.5 H:20.0	
76	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	8*9 L:21.5 W:12.5 H:19.5	
77	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	8*10 L:21.5 W:12.5 H:21.0	

Flat wire common mode choke coil product list

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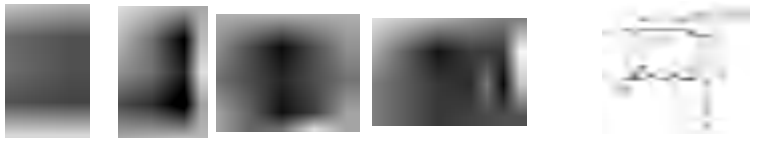
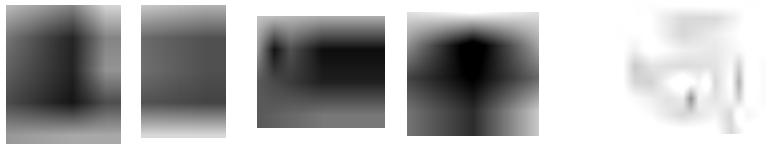
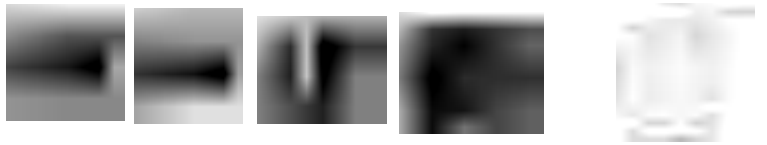
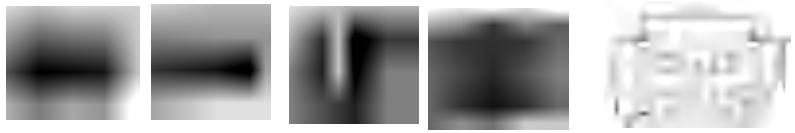
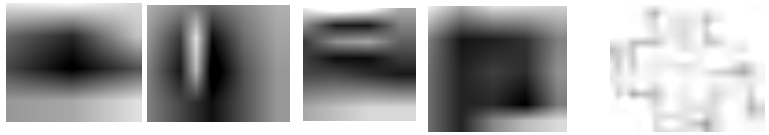
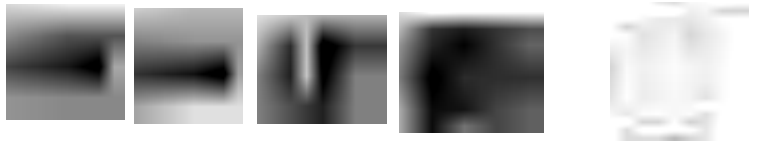
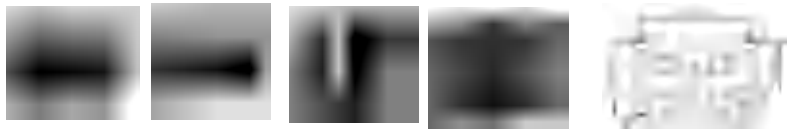
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
78	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	9*10.5 L:21.5 W:13.0 H:20.0	
79	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	10*12.8 L:21.5 W:15.0 H:21.0	
80	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	13*17 L:22.0 W:17.5 H:15.0	
81	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	9*13*17 L:22.0 W:17.5 H:15.0	
82	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	13.5*13.5 L:21.0 W:17.0 H:13.0	
83	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	13*17 L:22.0 W:17.5 H:15.0	
84	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	9*13*17 L:17.0 W:14.5 H:12.0	

Flat wire common mode choke coil product list

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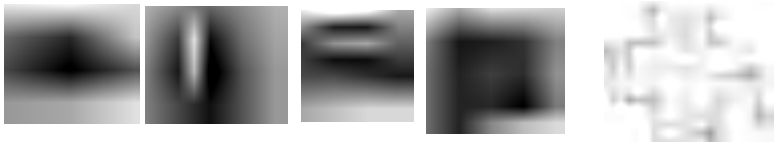
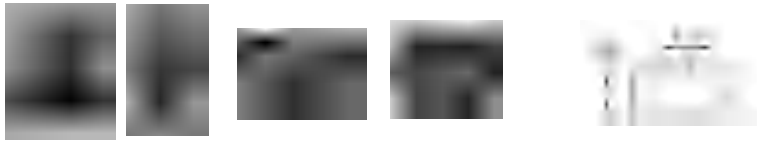
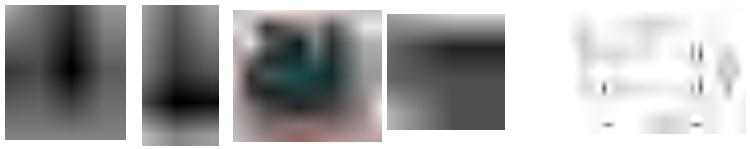
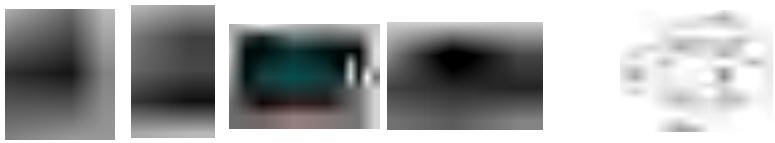
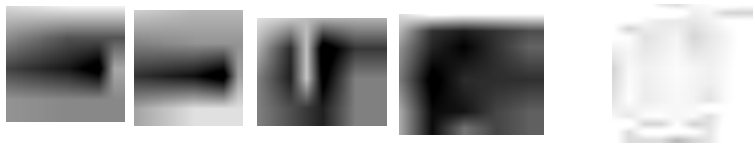
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
85	SQ1515	0.2*1.0*40TS	12mH	130.0	2.00	13.5*13.5 L:21.0 W:17.0 H:13.0	
86	SQ1515	0.18*1.2*42TS	18.0mH	120.0	2.10	6*8 L:21.5 W:11.5 H:21.0	
87	SQ1515	0.18*1.2*42TS	18.0mH	120.0	2.10	6.5*10 L:21.5 W:12.5 H:21.0	
88	SQ1515	0.18*1.2*42TS	18.0mH	120.0	2.10	7.5*10 L:21.5 W:12.5 H:20.0	
89	SQ1515	0.18*1.2*42TS	18.0mH	120.0	2.10	8*9 L:21.5 W:12.5 H:19.5	
90	SQ1515	0.15*1.5*48TS	15.0mH	100.0	2.20	8*10 L:21.5 W:12.5 H:21.0	
91	SQ1515	0.15*1.5*48TS	15.0mH	100.0	2.20	13*17 L:22.5 W:17.5 H:15.5	

Flat wire common mode choke coil product list

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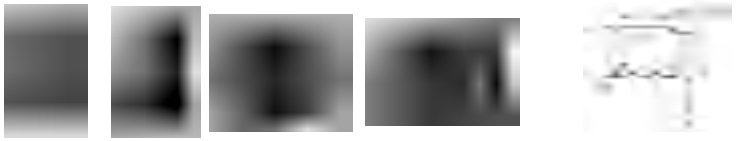
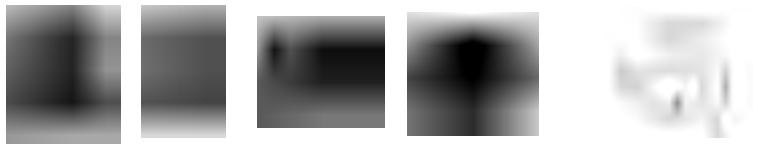
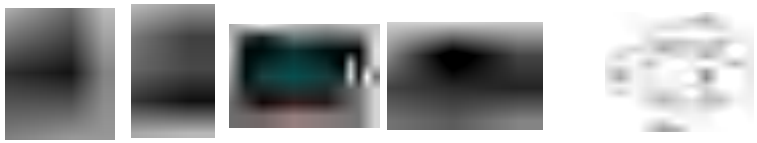
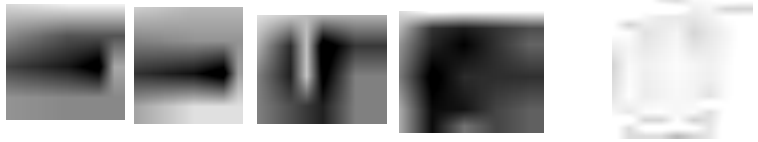
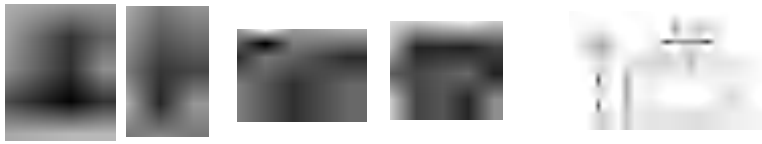
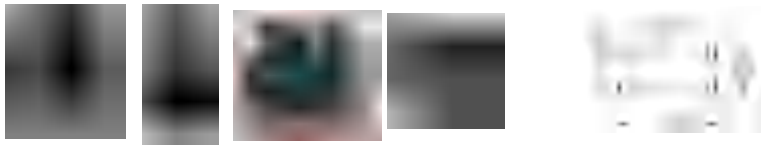
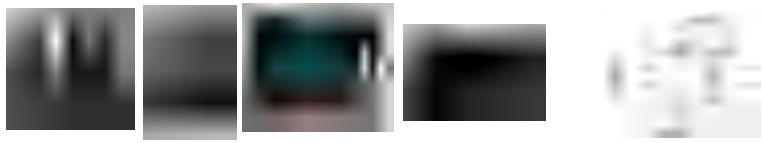
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
92	SQ1515	0.18*1.2*42TS	18.0mH	120.0	2.10	9*10.5 L:21.5 W:13.0 H:20.0	
93	SQ1515	0.18*1.2*42TS	18.0mH	120.0	2.10	10*12.8 L:21.5 W:15.0 H:21.0	
94	SQ1515	0.2*1.5*38TS	10.0mH	80.0	3.00	8*10 L:21.5 W:15.0 H:21.0	
95	SQ1515	0.2*1.5*38TS	10.0mH	80.0	3.00	13*17 L:22.5 W:17.5 H:15.5	
96	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	6*8 L:21.0 W:11.5 H:21.0	
97	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	6.5*10 L:21.5 W:12.5 H:21.0	
98	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	7.5*10 L:21.5 W:12.5 H:20.0	

Flat wire common mode choke coil product list

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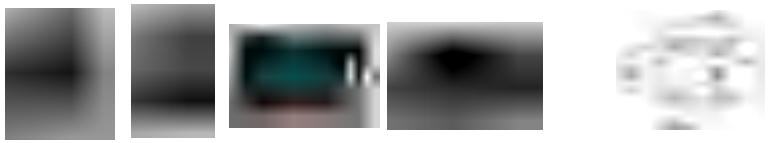
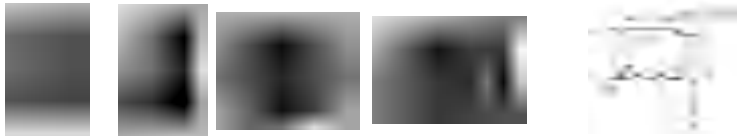
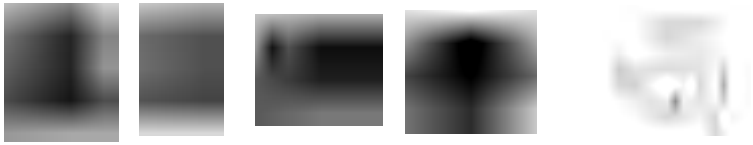
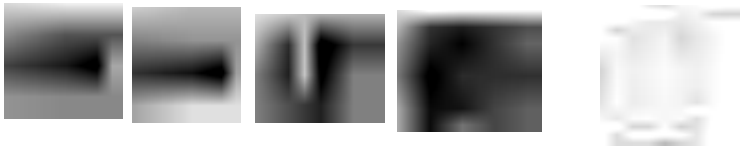
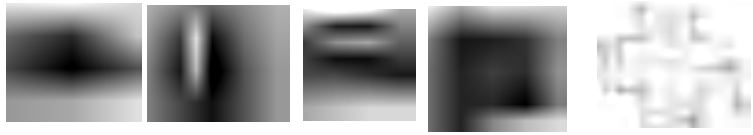
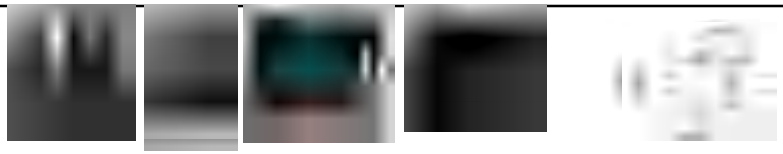
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
99	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	8*9 L:21.5 W:12.5 H:19.5	
100	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	8*10 L:21.5 W:12.5 H:21.0	
101	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	9*10.5 L:21.5 W:13.0 H:20.0	
102	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	10*12.8 L:21.5 W:15.0 H:21.0	
103	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	13*17 L:22.0 W:17.5 H:15.0	
104	SQ1515	0.3*1.0*28TS	10.0mH	80.0	3.00	13.5*13.5 L:21.0 W:17.0 H:13.0	
105	SQ1515	0.25*1.5*32TS	10.0mH	60.0	3.60	7.5*10 L:21.5 W:12.5 H:20.0	

Flat wire common mode choke coil product list

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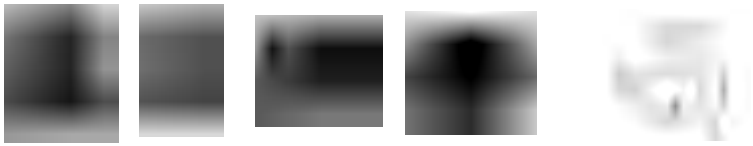
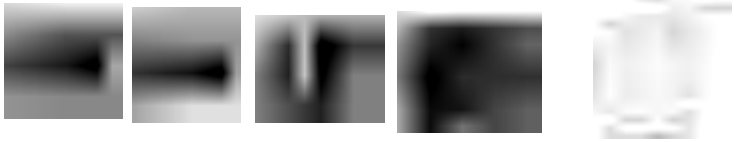
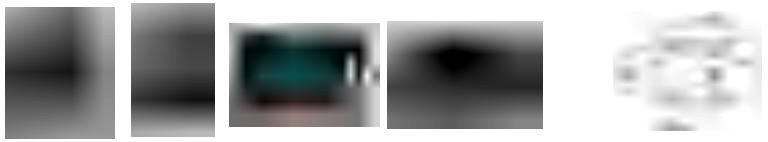
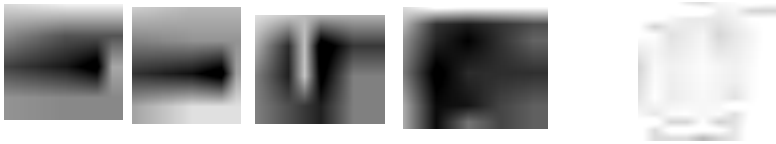
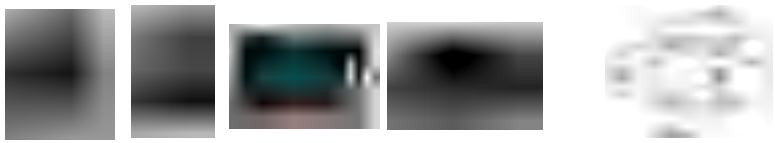
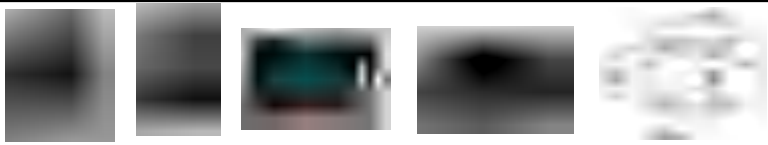
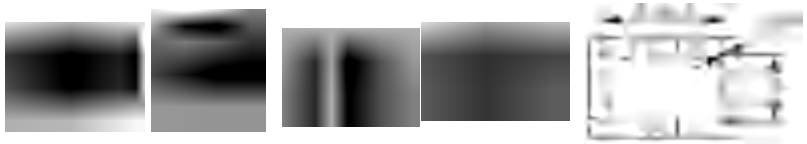
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
106	SQ1515	0.25*1.5*32TS	10.0mH	60.0	3.60	10*12.8 L:21.5 W:15.0 H:21.0	
107	SQ1515	0.25*1.5*32TS	10.0mH	60.0	3.60	13*17 L:22.0 W:17.5 H:15.0	
108	SQ1515	0.3*1.5*28TS	6.0mH	50.0	4.50	8*10 L:21.5 W:12.5 H:21.0	
109	SQ1515	0.3*1.5*28TS	6.0mH	50.0	4.50	13*17 L:22.5 W:17.5 H:15.5	
110	SQ1515	0.35*1.5*25TS	4.0mH	45.0	5.20	8*10 L:21.5 W:12.5 H:21.0	
111	SQ1515	0.4*1.5*22	4.0mH	30.0	6.00	8*10 L:21.5 W:12.5 H:21.0	
112	SQ1914	0.08*1.0*75TS	25.0mH	500.0	0.80	10*19 L:24.5 W:16.0 H:14.5	

Flat wire common mode choke coil product list

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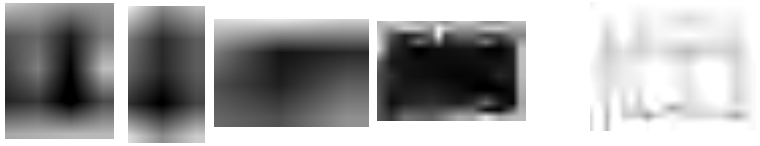
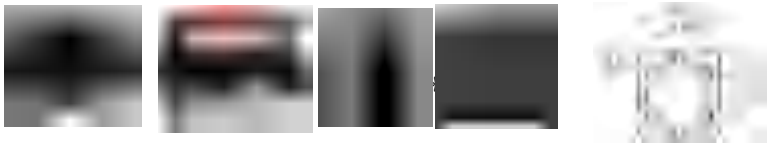
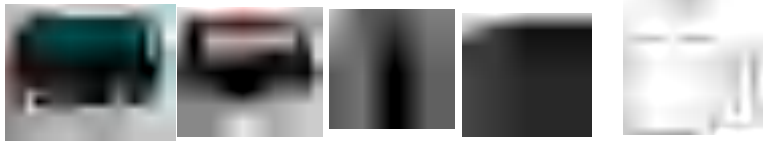
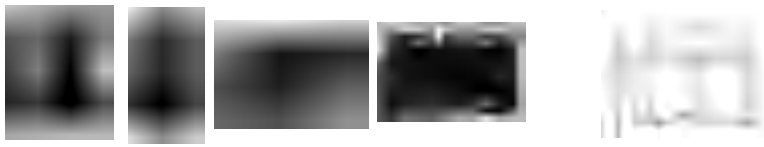
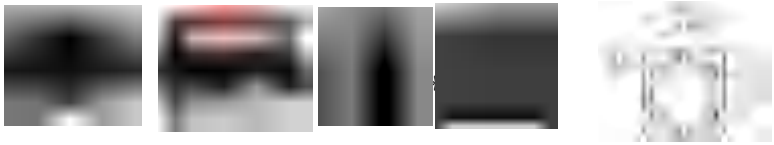
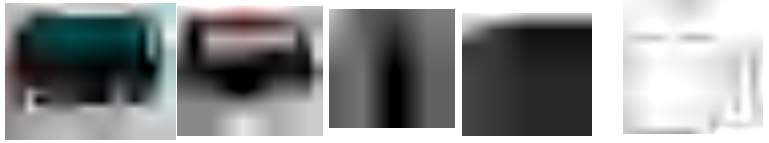
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
113	SQ1918	1.0*13TS	700uH	20.0	0.80	10*13 L:23.5 W:13.5 H:26.0	
114	SQ1918	0.13*1.0*66TS	25.0mH	280.0	1.30	10*13 L:24.0 W:14.5 H:25.5	
115	SQ1918	0.13*1.0*66TS	25.0mH	280.0	1.30	10*13 L:23.5 W:22.5 H:15.0	
116	SQ1918	0.13*1.0*66TS	25.0mH	280.0	1.30	15.5*17 L:23.5 W:22.0 H:14.5	
117	SQ1918	0.15*1.0*58TS	20.0mH	230.0	1.50	10*13 L:24.0 W:14.5 H:25.5	
118	SQ1918	0.15*1.0*58TS	20.0mH	230.0	1.50	10*13 L:23.5 W:22.5 H:15.0	
119	SQ1918	0.15*1.0*58TS	20.0mH	230.0	1.50	15.5*17 L:23.5 W:22.0 H:14.5	

Flat wire common mode choke coil product list

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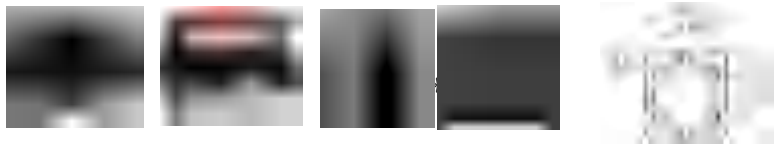
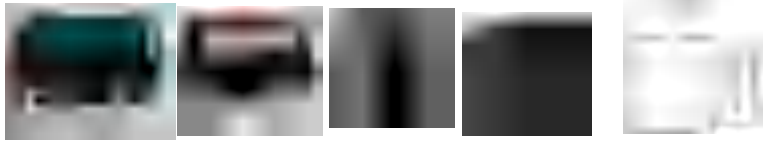
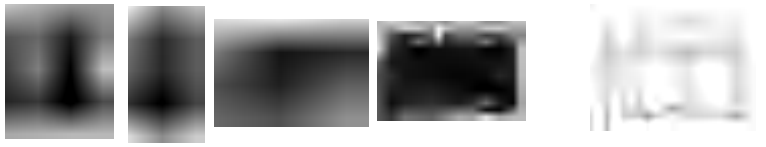
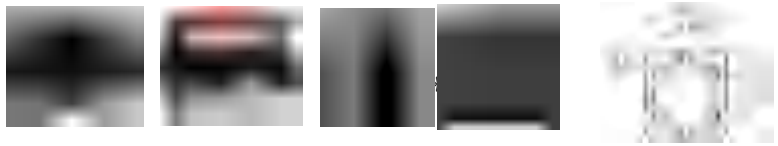
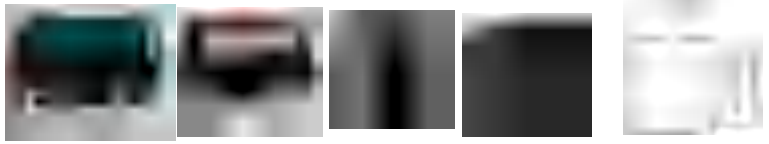
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
120	SQ1918	0.18*1.0*55TS	18.0mH	180.0	1.80	10*13 L:24.0 W:14.5 H:25.5	
121	SQ1918	0.18*1.0*55TS	18.0mH	200.0	1.80	10*13 L:23.5 W:22.5 H:15.0	
122	SQ1918	0.18*1.0*55TS	18.0mH	200.0	1.80	15.5*17 L:23.5 W:22.0 H:14.5	
123	SQ1918	0.2*1.0*50TS	15.0mH	150.0	2.00	10*13 L:24.0 W:14.5 H:25.5	
124	SQ1918	0.2*1.0*50TS	15.0mH	150.0	2.00	10*13 L:23.5 W:22.5 H:15.0	
125	SQ1918	0.2*1.0*50TS	15.0mH	150.0	2.00	15.5*17 L:23.5 W:22.0 H:14.5	
126	SQ1918	0.25*1.0*40TS	10.0mH	130.0	2.50	10*13 L:24.0 W:14.5 H:25.5	

Flat wire common mode choke coil product list

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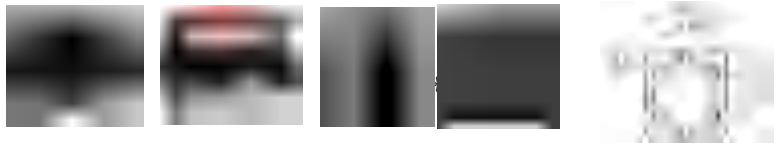
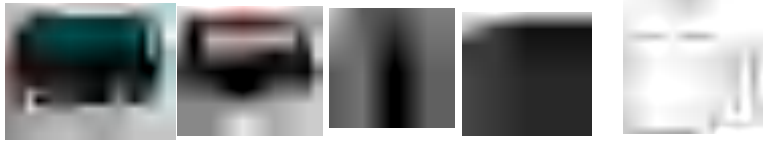
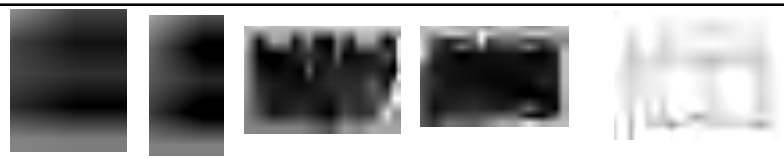
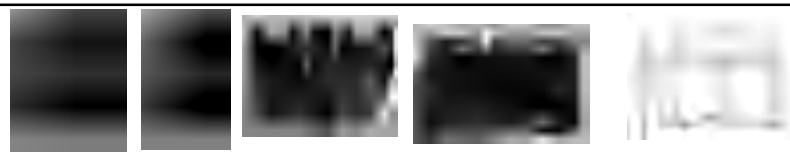
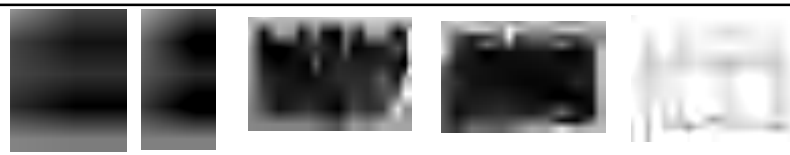
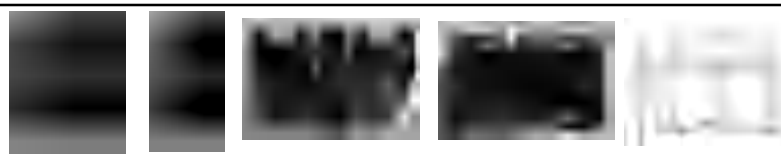
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
127	SQ1918	0.25*1.0*40TS	10.0mH	130.0	3.00	10*13 L:23.5 W:22.5 H:15.0	
128	SQ1918	0.25*1.0*40TS	10.0mH	130.0	3.00	15.5*17 L:23.5 W:22.0 H:14.5	
129	SQ1918	0.25*1.2*40TS	10.0mH	130.0	3.00	10*13 L:24.0 W:14.5 H:25.5	
130	SQ1918	0.3*1.5*34TS	10.0mH	100.0	4.50	10*13 L:24.0 W:14.5 H:25.5	
131	SQ1918	0.35*1.5*31TS	7.0mH	80.0	5.20	10*13 L:24.0 W:14.5 H:25.5	
132	SQ1918	0.4*1.5*34TS	5.0mH	60.0	6.00	10*13 L:24.0 W:14.5 H:25.5	
133	SQ1918	0.5*1.5*23TS	2.0mH	25.0	7.50	10*13 L:24.0 W:14.5 H:25.5	

Flat wire common mode choke coil product list

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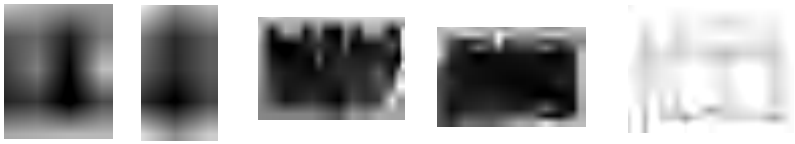
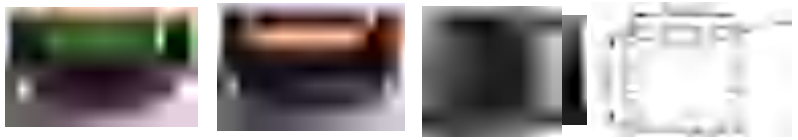
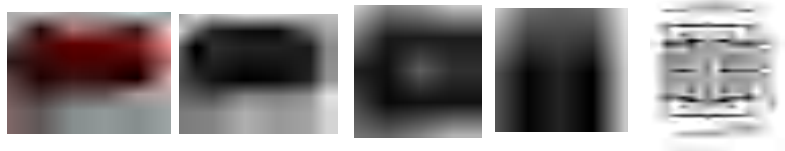
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
134	SQ2018	0.15*1.5*60TS	20.0mH	150.0	2.25	10*13 L:25.0 W:14.5 H:26.0	
135	SQ2318	0.2*1.0*50TS	10.0mH	160.0	2.00	17.5*34.5 L:35.5 W:26.0 H:12.5	
136	SQ2318	0.2*1.5*58TS	15.0mH	120.0	3.00	20*22.5 L:26.5 W:25.0 H:12.5	
137	ETV2320	1.1Φ*9TS	450 uH+/-40%	9.6	11.00	7*14.5*23.8 L:27.5 W:25.0 H:12.5	
138	ETV2320	1.1Φ*12TS	200 uH	15.0	11.00	7*14.5*23.8 L:27.5 W:25.0 H:12.5	
139	ETV2320	1.1Φ*12TS	200 uH	15.0	11.00	7*14.5*23.8 L:27.5 W:25.0 H:11.0	
140	ETV2320	0.3*1.5*44TS	5.0mH	60.0	4.50	9.5*12 L:27.0 W:14.5 H:30.0	

Flat wire common mode choke coil product list

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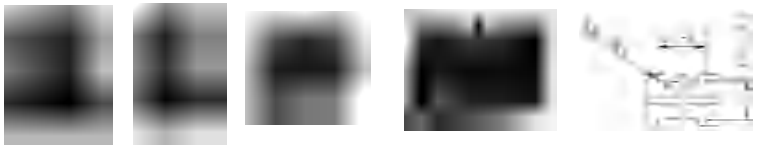
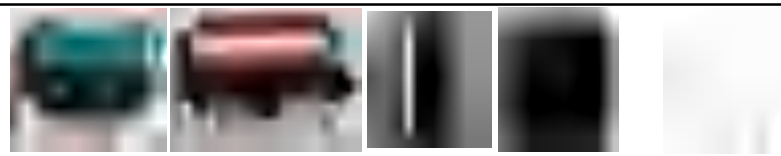
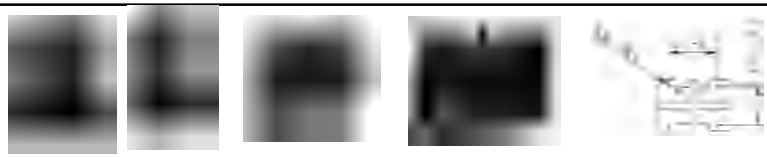
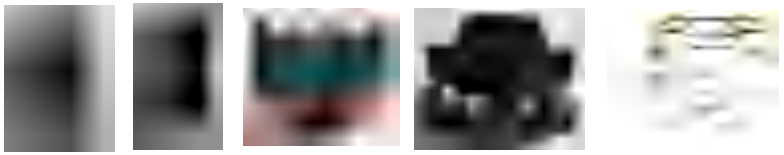
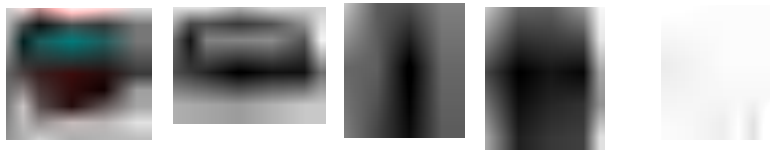
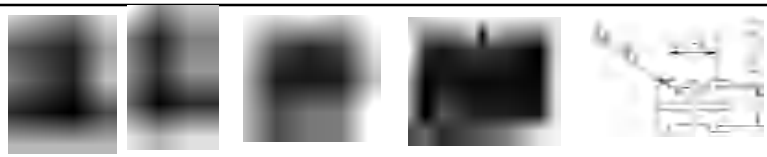
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
141	SQ2418	0.25*1.0*61TS	25.0mH	160.0	2.50	10*13 L:23.0 W:15.0 H:31.0	
142	SQ2418	0.25*1.0*61TS	25.0mH	160.0	2.50	17*21.5 L:23.0 W:26.0 H:15.0	
143	SQ2418	0.2*1.5*70TS	20.0mH	145.0	3.00	10*13 L:24.0 W:15.0 H:31.0	
144	SQ2418	0.2*1.5*70TS	20.0mH	145.0	3.00	4+8+4 L:24.0 W:15.0 H:31.0	
145	SQ2418	0.2*1.5*70TS	20.0mH	145.0	3.00	17*21.5 L:24.0 W:26.5 H:15.5	
146	SQ2418	0.25*1.2*55TS	15.0mH	130.0	3.00	10*13 L:24.0 W:16.0 H:33.5	
147	SQ2418	0.25*1.5*60TS	15.0mH	120.0	3.75	10*13 L:24.0 W:15.0 H:31.0	

Flat wire common mode choke coil product list

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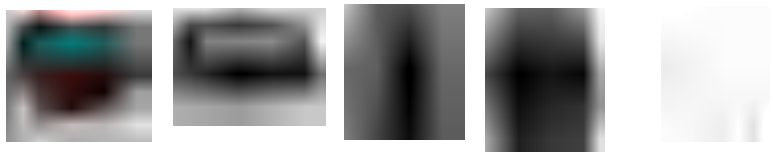
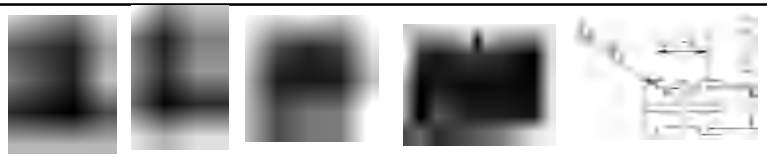
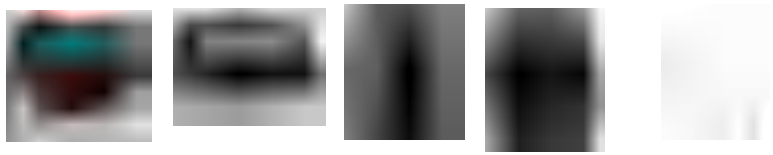
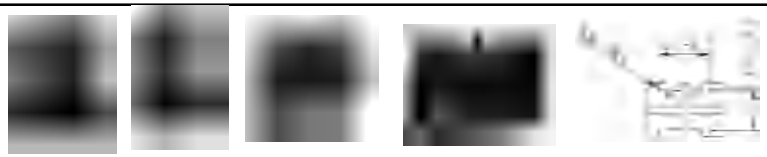
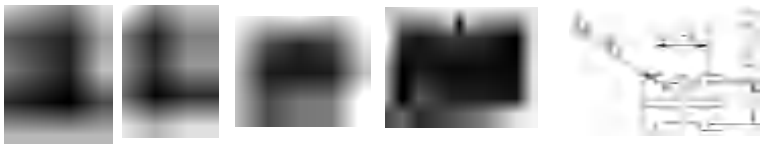
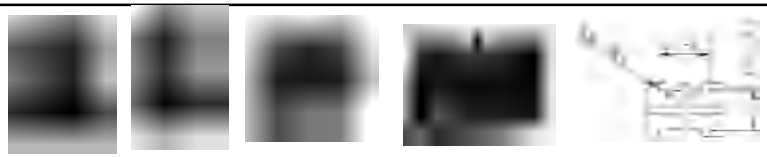
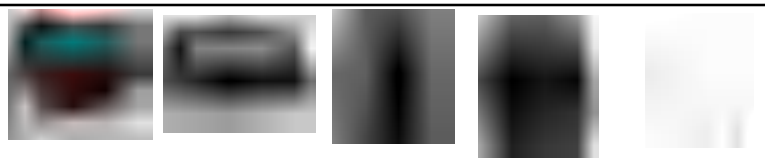
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
148	SQ2418	0.25*1.5*60TS	15.0mH	120.0	3.75	17*21.5 L:24.0 W:26.5 H:15.5	
149	SQ2418	0.3*1.5*49TS	10.0mH	90.0	4.50	10*13 L:24.0 W:15.0 H:31.0	
150	SQ2418	0.3*1.5*49TS	10.0mH	90.0	4.50	17*21.5 L:24.0 W:26.5 H:15.5	
151	SQ2418	0.35*1.5*43TS	8.0mH	70.0	5.25	10*13 L:24.0 W:15.0 H:31.0	
152	SQ2418	0.4*1.5*38TS	7.0mH	60.0	6.00	10*13 L:24.0 W:15.0 H:31.0	
153	SQ2418	0.45*1.5*34TS	5.0mH	50.0	6.80	10*13 L:24.0 W:15.0 H:31.0	
154	SQ2418	0.4*1.5*38TS	7.0mH	60.0	6.00	17*21.5 L:24.0 W:26.5 H:15.5	

Flat wire common mode choke coil product list

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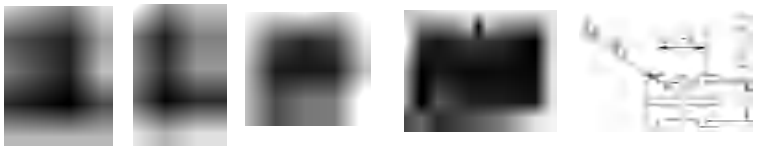
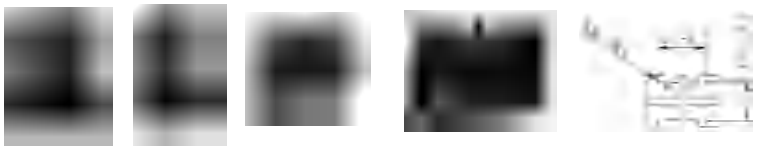
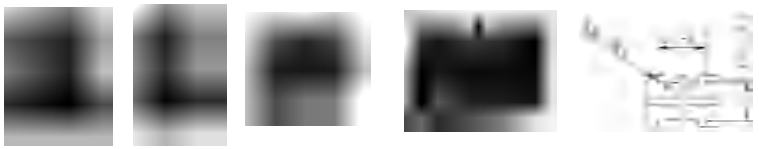
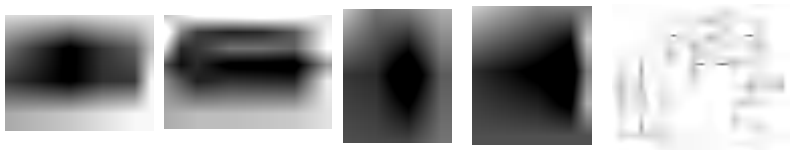
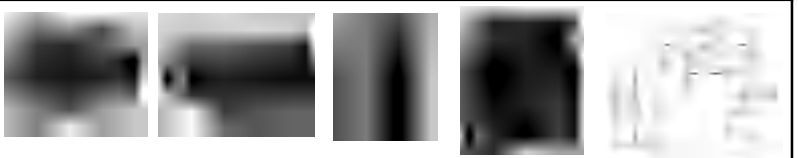
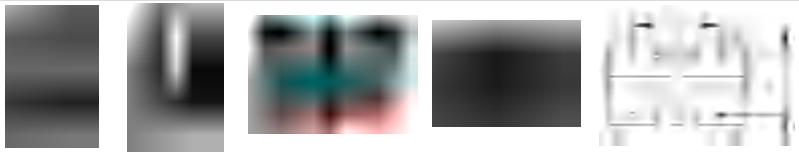
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
155	SQ2418	0.55*1.5*27TS	4.0mH	40.0	8.20	10*13 L:24.0 W:15.0 H:31.0	
156	SQ2418	0.53*2.0*30TS	4.0mH	30.0	10.60	10*13 L:24.0 W:15.0 H:31.0	
157	SQ2418	0.6*2.0*26TS	3.0mH	25.0	12.00	10*13 L:24.0 W:15.0 H:31.0	
158	SQ2820	1.1*18TS	1.5mH	20.0	1.00	20*24.5 L:26.0 W:30.5 H:16.5	
159	SQ2820	0.3*1.5*60TS	12mH	90.0	4.50	20*25 L:26.0 W:30.5 H:16.5	
160	SQ2820	0.6*1.9*29	4.0mH	25.0	11.40	10*13 L:27.0 W:17.0 H:36.5	
161	SQ2820	1.1*2.5*17TS	1.5mH	6.0	25.00	10*14 L:27.0 W:17.0 H:36.5	

Flat wire common mode choke coil product list

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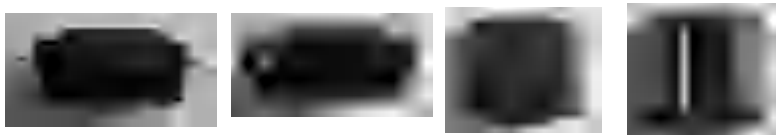
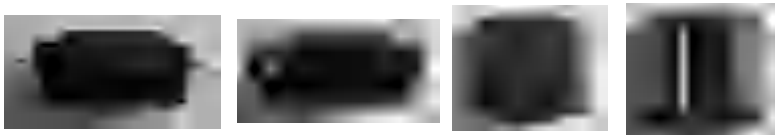
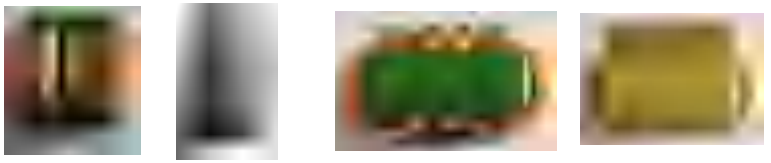
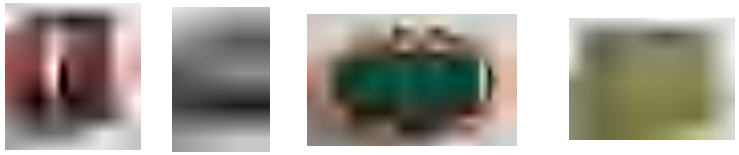
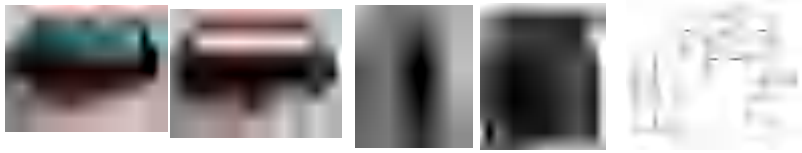
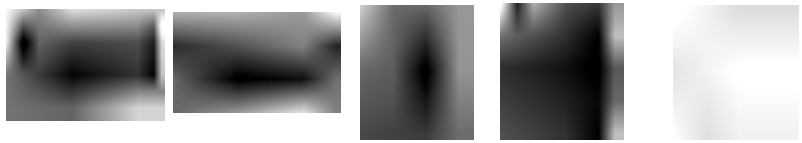
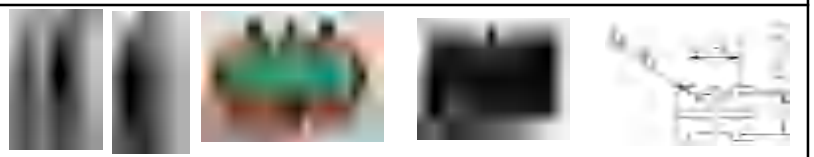
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
162	SQ2821	0.25*1.5*52	9.0mH	100.0	3.75	24.5*40.4 L:41.5 W:33.0 H:13.5	
163	SQ2821	0.3*1.5*46TS	6.0mH	65.0	4.50	24.5*40.4 L:41.5 W:33.0 H:13.5	
164	SQ2824	0.8*2.0*16TS	2.0mH	10.0	16.00	9.5*12.5 L:32.0 W:18.5 H:31.5	
165	SQ2825	0.7*2.5*21TS	1.6	15.0	17.50	10*17 L:34.0 W:22.0 H:31.0	
166	SQ2918	0.3*1.5*60TS	12mH	90.0	4.50	20*25 L:26.0 W:30.5 H:16.5	
167	SQ2918	0.3*1.5*60TS	15mH	90.0	4.50	21*25.5 L:26.0 W:30.5 H:14.5	
168	SQ2918	0.3*1.5*60TS	12mH	90.0	4.50	10*13 L:25.5 W:15.0 H:35.5	

Flat wire common mode choke coil product list

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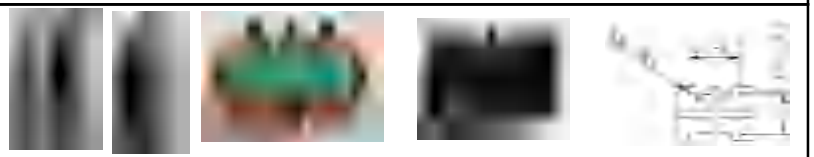
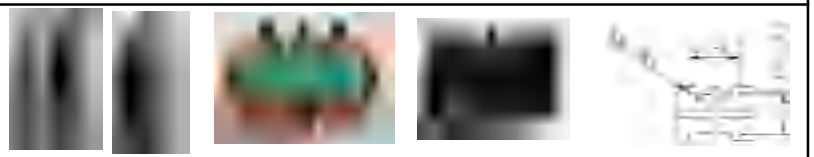
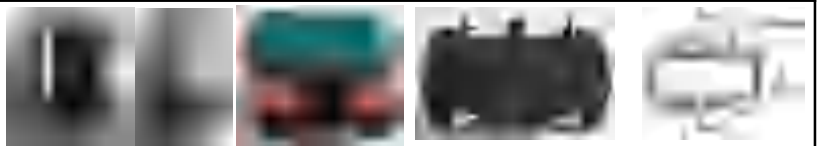
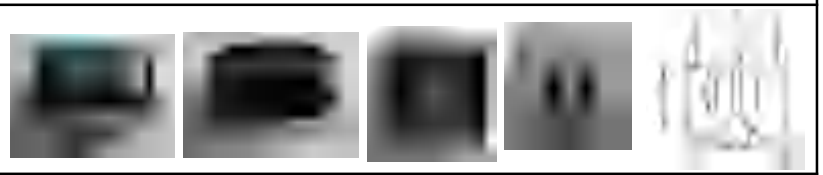
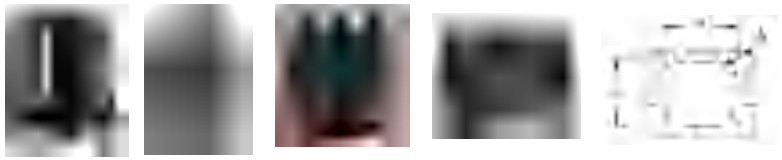
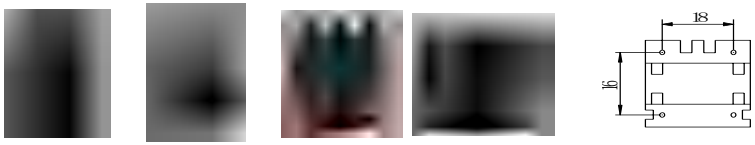
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
169	SQ2918	0.35*1.5*53TS	9.0mH	80.0	5.25	10*13 L:25.5 W:15.0 H:35.5	
170	SQ2918	0.4*1.5*47TS	8.0mH	60.0	6.00	10*13 L:25.5 W:15.0 H:35.5	
171	SQ3126	0.6*1.0*32TS	4.0mH	45.0	6.00	16*18 L:31.0 W:23.5 H:43.0	
172	SQ3126	1.1*3.0*18TS	2.0mH	10.0	33.00	11*16 L:36.0 W:23.0 H:36.0	
173	SQ3126	2.0*10TS	700uH	4.0	31.40	8.6*21*30 L:36.0 W:35.0 H:18.5	
174	SQ3324	0.5*2.0*36TS	10.0mH	35.0	10.00	16*18 L:31.0 W:23.5 H:43.0	
175	SQ3324	0.6*1.8*32TS	6.0mH	50.0	10.80	16*18 L:36.0 W:23.5 H:43.0	

Flat wire common mode choke coil product list

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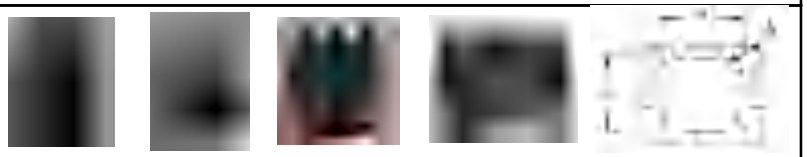
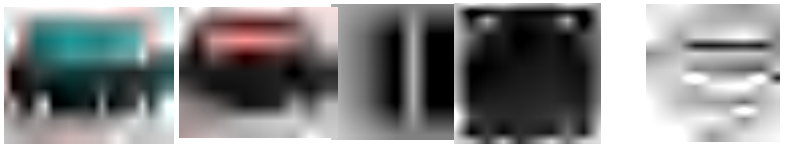
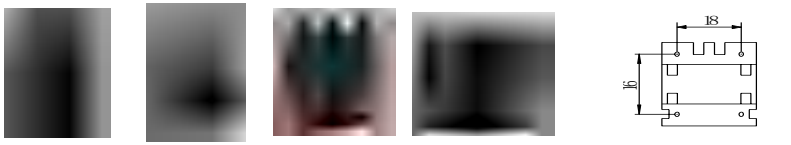
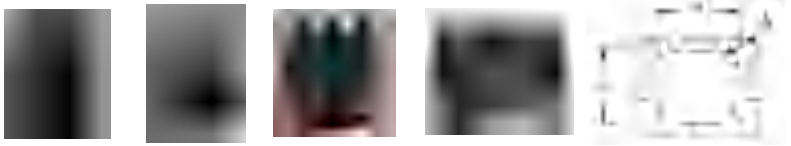
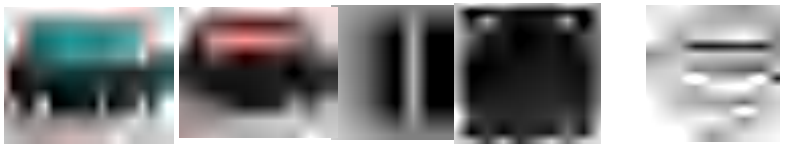
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
176	SQ3324	0.6*1.8*32TS	6.0mH	50.0	10.80	16*18 L:31.0 W:23.5 H:43.0	
177	SQ3324	0.6*1.8*32TS	6.0mH	50.0	10.80	20*26 L:33.5 W:34.0 H:19.0	
178	SQ3324	0.8*1.8*24TS	4.0mH	30.0	14.40	16*18 L:31.0 W:23.5 H:43.0	
179	SQ3324	0.8*1.8*24TS	4.0mH	30.0	14.40	16*18 L:31.0 W:23.5 H:43.0	
180	SQ3324	0.8*1.8*24TS	4.0mH	30.0	14.40	20*26 L:33.5 W:34.0 H:19.0	
181	SQ3324	0.8*2.0*23TS	4.0mH	15.0	16.00	12*18 L:33.0 W:20.0 H:43.0	
182	SQ3324	1.1*2.5*18TS	1.5mH	6.0	27.50	8*17 L:35.0 W:21.5 H:36.0	

Flat wire common mode choke coil product list

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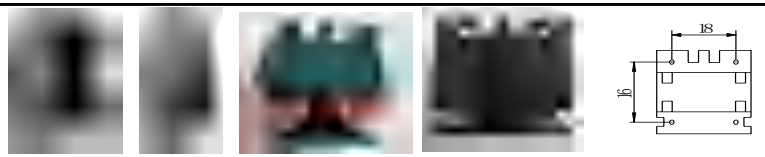
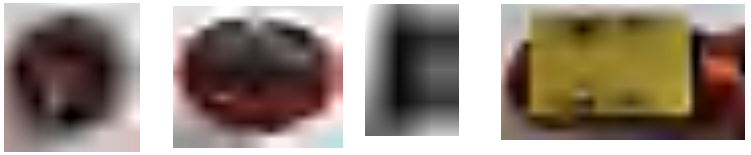
No.	Part No.	Wire diameter & Turns	L(mH)Min 1KHz,0.25V	DCR (mΩ) Max	Current (A)Max	Size(mm) Max	
183	SQ3325	0.55*1.8*28	5.0mH	30.0	9.90	16*18 L:32.5 W:23.5 H:43.0	
184	SQ3325	2.0*10TS	200 uH	10.0	31.00	16*18 L:33.0 W:22.5 H:29.5	
185	TRF 522116 -60	1*3*43TS	200 uH	30.0	30.00	11*16 L:64.0 W:26.0 H:62.0	

AUTO FLAT WIRE COMMON MODE CHOKES
SQ1212 SERIES

FEATURES:

- High current, low profile, high efficiency, low temperature rise
- Interturn capacitance is smaller than toroidal core, high insulation strength and high reliability
- Use the flat wire, improving the space factor
- Single phase winding, thereby dramatically reduce stray capacitance
- EMI suppression is excellent

ELECTRICAL CHARACTERISTICS:

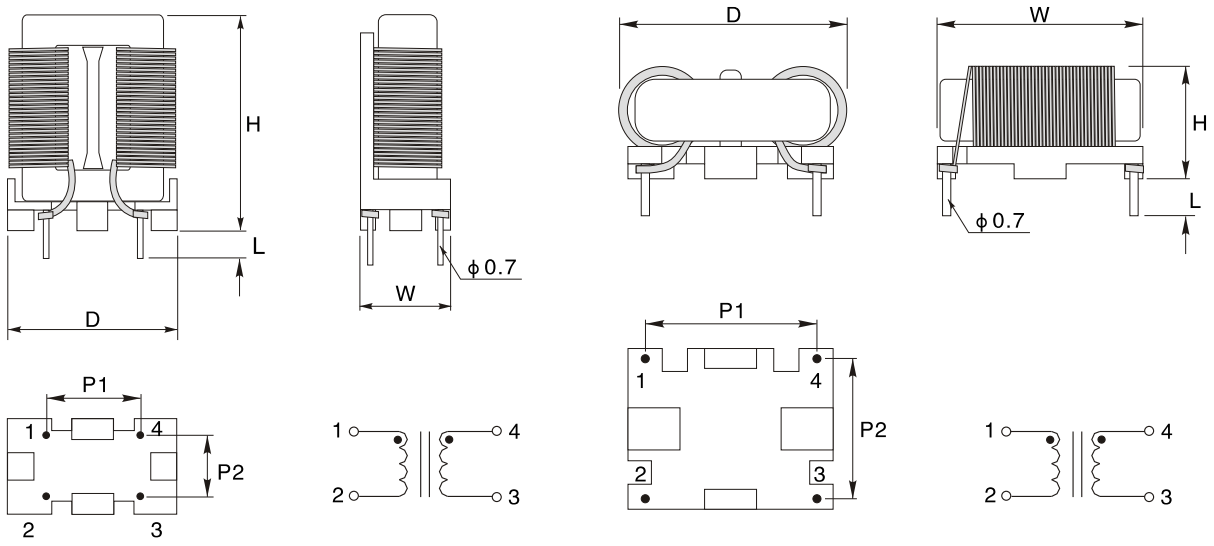
Part Number	Inductance (mH)Min @1KHz,0.1V	Rated current (A)Max	DCR (mΩ)Max	Rated voltage (V)
SQ1212H/VA-502Y-2.0A	5.0	2.0	100	300
SQ1212H/VA-103Y-1.5A	10.0	1.5	150	300
SQ1212H/VB-103Y-1.3A	10.0	1.3	200	300
SQ1212H/VA-253Y-1.0A	25.0	1.0	300	300

NOTES:

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.Please make sure that the temperature of the coil is not exceeded the operating temperature range.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



Part Number	D(mm)	W(mm)	H(mm)	L(mm)	Pin pitch (mm)
SQ1212VA-502Y-2.0A	18.5	11.0	17.0	3.5±1	11.0*8.0
SQ1212VA-103Y-1.5A	18.5	11.0	17.0	3.5±1	11.0*8.0
SQ1212VB-103Y-1.3A	18.5	11.0	17.0	3.5±1	8.0*7.0
SQ1212VA-253Y-1.0A	19.0	12.0	17.0	3.5±1	8.0*7.0
SQ1212HA-502Y-2.0A	18.5	14.0	12.0	3.5±1	13.0*10.0
SQ1212HA-103Y-1.5A	19.0	14.5	13.5	3.5±1	13.0*10.0
SQ1212HB-103Y-1.3A	18.5	14.0	12.0	3.5±1	13.0*10.0
SQ1212HA-253Y-1.0A	18.5	14.0	12.0	3.5±1	13.0*10.0

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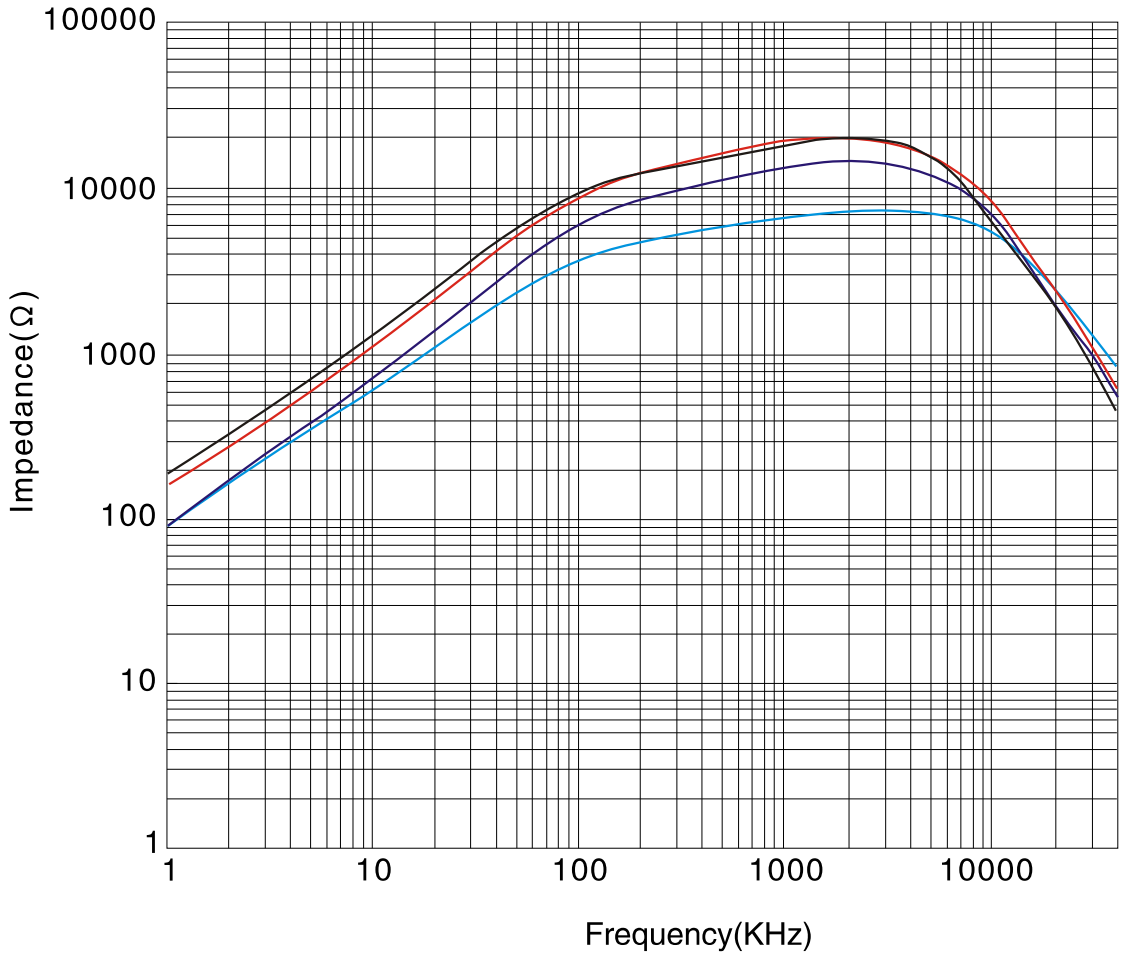
AUTO FLAT WIRE COMMON MODE CHOKES

IMPEDANCE VS FREQUENCY:



SQ1212H/VA-502Y-2.0A
SQ1212H/VA-103Y-1.5A
SQ1212H/VB-103Y-1.3A
SQ1212H/VA-253Y-1.0A

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AUTO FLAT WIRE COMMON MODE CHOKES

SQ1515 SERIES

FEATURES:

- High current, low profile, high efficiency, low temperature rise
- Interturn capacitance is smaller than toroidal core, high insulation strength and high reliability
- Use the flat wire, improving the space factor
- Single phase winding, thereby dramatically reduce stray capacitance
- EMI suppression is excellent

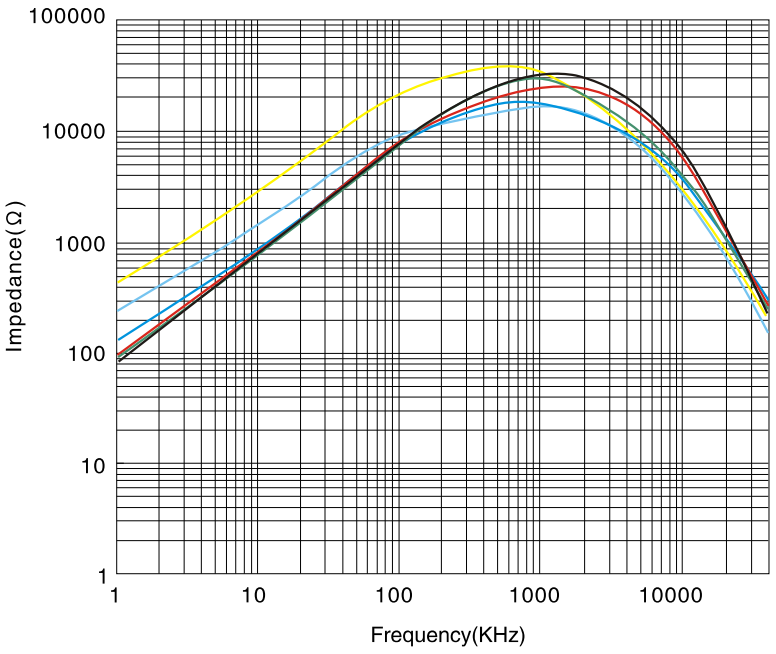
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min @1KHz,0.1V	Rated current (A)Max	DCR (mΩ)Max	Rated voltage (V)
SQ1515H/VA-353Y-1.0A	35.0	1.0	380	300
SQ1515H/VB-103Y-1.5A	10.5+50%/-30%	1.5	180	300
SQ1515H/VA-103Y-1.5A	10.0	1.5	180	300
SQ1515H/VA-702Y-1.8A	7.0	1.8	150	300
SQ1515H/VA-143Y-2.0A	14.0	2.0	120	300
SQ1515H/VA-183Y-2.0A	18.0	2.0	130	300

NOTES:

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.Please make sure that the temperature of the coil is not exceeded the operating temperature range.

IMPEDANCE VS FREQUENCY:



SQ1515H/VA-353Y-1.0A
SQ1515H/VB-103Y-1.5A
SQ1515H/VA-103Y-1.5A
SQ1515H/VA-702Y-1.8A
SQ1515H/VA-143Y-2.0A
SQ1515H/VA-183Y-2.0A

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840

AUTO FLAT WIRE COMMON MODE CHOKES

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

Fig 1

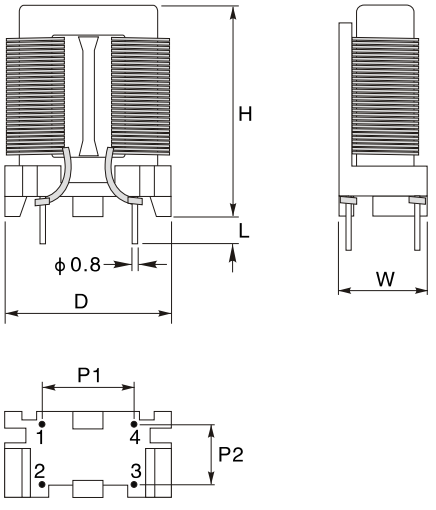


Fig 2

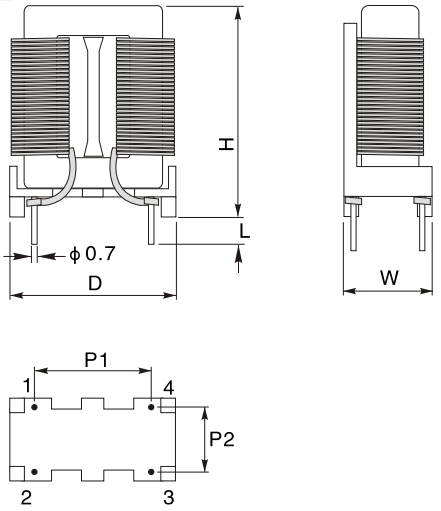
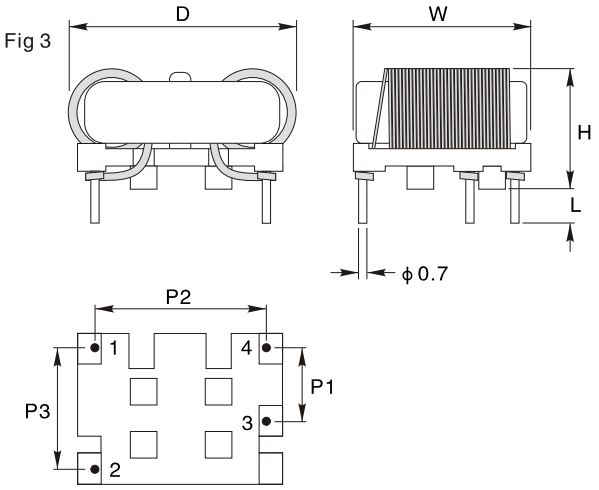
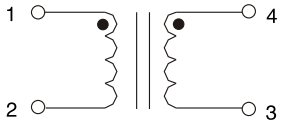


Fig 3





Part Number	D(mm)	W(mm)	H(mm)	L(mm)	Pin pitch(mm)	Fig.
SQ1515H/VA-353Y-1.0A	21.0	14.5	20.5	3.5±1	13.0*10.0	1
SQ1515H/VB-103Y-1.5A	21.0	14.5	20.5	3.5±1	13.0*10.0	1
SQ1515H/VA-103Y-1.5A	21.0	14.5	20.5	3.5±1	13.0*10.0	1
SQ1515H/VA-702Y-1.8A	21.0	14.5	20.5	3.5±1	13.0*10.0	1
SQ1515H/VA-143Y-2.0A	22.0	14.5	20.0	3.5±1	13.0*10.0	1
SQ1515H/VA-183Y-2.0A	21.8	13.8	20.8	3.5±1	10.0*8.0	2
SQ1515H/VA-353Y-1.0A	21.0	17.0	14.0	3.5±1	9.0*17.0*12.9	3
SQ1515H/VB-103Y-1.5A	23.0	17.0	14.0	3.5±1	9.0*17.0*12.9	3
SQ1515H/VA-103Y-1.5A	21.0	17.0	14.0	3.5±1	9.0*17.0*12.9	3
SQ1515H/VA-702Y-1.8A	21.0	17.0	14.0	3.5±1	9.0*17.0*12.9	3
SQ1515H/VA-143Y-2.0A	23.0	17.0	16.0	3.5±1	9.0*17.0*12.9	3
SQ1515H/VA-183Y-2.0A	23.0	17.0	16.0	3.5±1	9.0*17.0*12.9	3

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AUTO FLAT WIRE COMMON MODE CHOKES
SQ1919 SERIES

FEATURES:

- High current, low profile, high efficiency, low temperature rise
- Interturn capacitance is smaller than toroidal core, high insulation strength and high reliability
- Use the flat wire, improving the space factor
- Single phase winding, thereby dramatically reduce stray capacitance
- EMI suppression is excellent

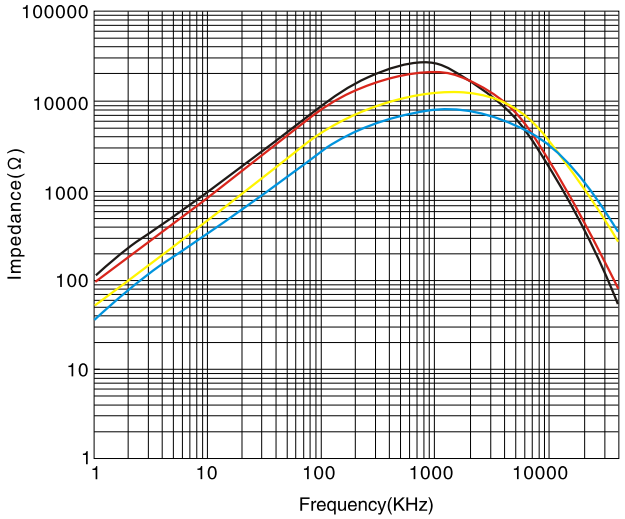
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min @100KHz,0.1V	Rated current (A)Max	DCR (mΩ)Max	Rated voltage (V)
SQ1919H/VA-303Y-1.3A	30.0(1KHz)	1.3	300	300
SQ1919H/VA-173Y-1.5A	17.0+50%/-30%	1.5	200	300
SQ1919H/VA-113Y-2.0A	11.0+50%/-30%	2.0	155	300
SQ1919H/VA-103Y-3.0A	10.0(1KHz)	3.0	120	300
SQ1919H/VA-402Y-3.5A	4.0	3.5	70	300
SQ1919H/VA-702Y-3.5A	7.0(1KHz)	3.5	70	300
SQ1919H/VB-702Y-4.5A	7.0(1KHz)	4.5	60	300
SQ1919H/VA-502Y-5.0A	5.0+50%/-30%(1KHz)	5.0	50	300

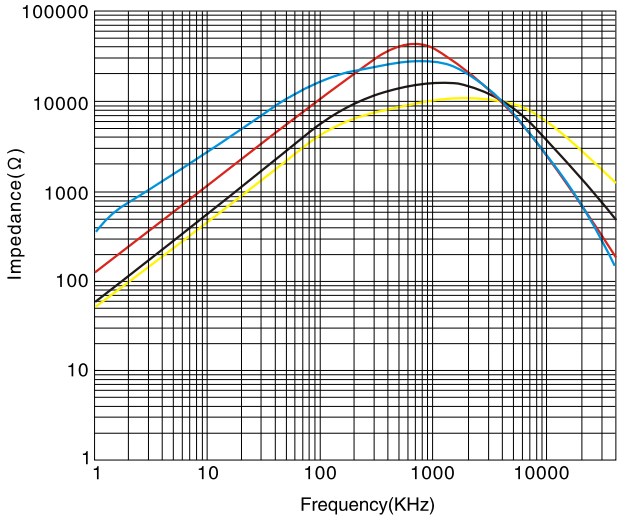
NOTES:

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.Please make sure that the temperature of the coil is not exceeded the operating temperature range.

IMPEDANCE VS FREQUENCY:



SQ1919H/VA-103Y-3.0A
SQ1919H/VB-702Y-4.5A
SQ1919H/VA-113Y-2.0A
SQ1919H/VA-402Y-3.5A



SQ1919H/VA-173Y-1.5A
SQ1919H/VA-502Y-5.0A
SQ1919H/VA-702Y-3.5A
SQ1919H/VA-303Y-1.3A

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840

AUTO FLAT WIRE COMMON MODE CHOKES

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

Fig 1

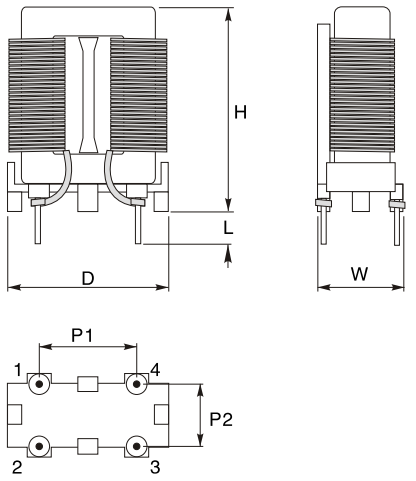


Fig 2

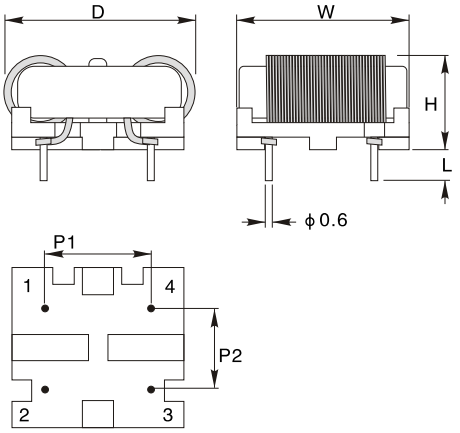
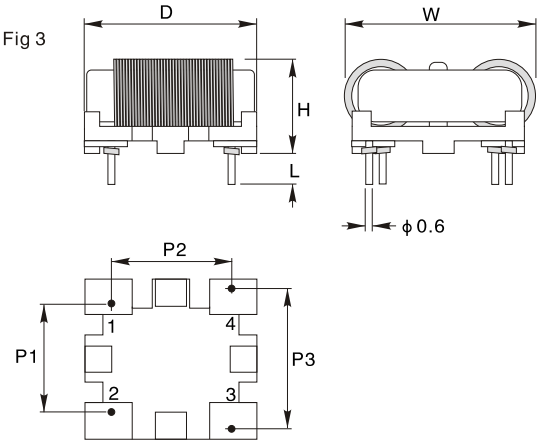
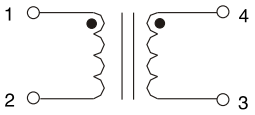


Fig 3





Part Number	D(mm)	W(mm)	H(mm)	L(mm)	Pin pitch(mm)	Fig.
SQ1919H/VA-303Y-1.3A	23.5	14.0	25.5	3.5±1	13.0*10.0	1
SQ1919H/VA-173Y-1.5A	23.5	14.0	25.5	3.5±1	13.0*10.0	1
SQ1919H/VA-113Y-2.0A	23.5	14.0	25.5	3.5±1	13.0*10.0	1
SQ1919H/VA-103Y-3.0A	24.0	14.0	25.5	3.5±1	13.0*10.0	1
SQ1919H/VA-402Y-3.5A	23.5	14.0	25.5	3.5±1	13.0*10.0	1
SQ1919H/VA-702Y-3.5A	24.5	15.0	25.5	3.5±1	13.0*10.0	1
SQ1919H/VB-702Y-4.5A	26.0	15.0	26.0	3.5±1	13.0*10.0	1
SQ1919H/VA-502Y-5.0A	23.5	14.0	25.5	3.5±1	13.0*10.0	1
SQ1919H/VA-303Y-1.3A	22.5	20.5	13.5	3.5±1	17.0*15.5	2
SQ1919H/VA-173Y-1.5A	24.0	23.0	13.5	3.5±1	17.0*15.5	2
SQ1919H/VA-113Y-2.0A	24.0	23.0	13.5	3.5±1	17.0*15.5	2
SQ1919H/VA-103Y-3.0A	24.0	21.0	14.0	3.5±1	17.0*15.5	2
SQ1919H/VA-402Y-3.5A	26.0	23.0	16.5	3.5±1	17.0*15.5	2
SQ1919H/VA-702Y-3.5A	25.0	22.5	15.0	3.5±1	15.0*18.0*17.0	3
SQ1919H/VB-702Y-4.5A	24.0	21.0	15.0	3.5±1	17.0*15.5	2
SQ1919H/VA-502Y-5.0A	24.0	22.0	15.0	3.5±1	17.0*15.5	2

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AUTO FLAT WIRE COMMON MODE CHOKES
SQ2418 SERIES

FEATURES:

- High current, low profile, high efficiency, low temperature rise
- Interturn capacitance is smaller than toroidal core, high insulation strength and high reliability
- Use the flat wire, improving the space factor
- Single phase winding, thereby dramatically reduce stray capacitance
- EMI suppression is excellent

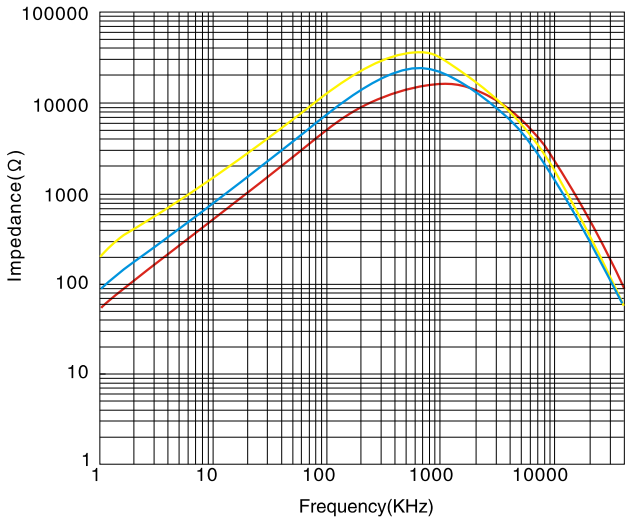
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min @1KHz,0.1V	Rated current (A)Max	DCR (mΩ)Max	Rated voltage (V)
SQ2418H/VA-283Y-2.0A	28.0	2.0	260	300
SQ2418H/VA-293Y-2.5A	29.0+50%/-30%	2.5	175	300
SQ2418H/VA-173Y-4.0A	17.0	4.0	110	300
SQ2418H/VA-802Y-4.5A	8.0(100KHz)	4.5	85	300
SQ2418H/VA-602Y-6.0A	6.0+50%/-30%(100KHz)	6.0	50	300
SQ2418H/VA-202Y-10.0A	2.0	10.0	25	300

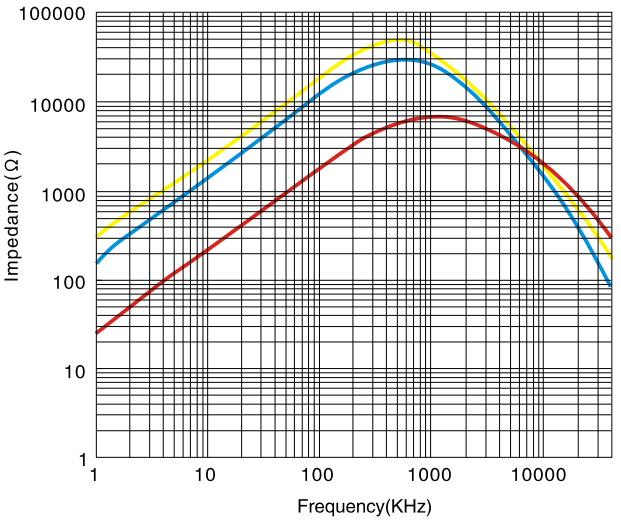
NOTES:

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.Please make sure that the temperature of the coil is not exceeded the operating temperature range.

IMPEDANCE VS FREQUENCY:



SQ2418H/VA-602Y-6.0A
SQ2418H/VA-293Y-2.5A
SQ2418H/VA-802Y-4.5A



SQ2418H/VA-202Y-10.0A
SQ2418H/VA-283Y-2.0A
SQ2418H/VA-173Y-4.0A

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AUTO FLAT WIRE COMMON MODE CHOKES

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

Fig 1

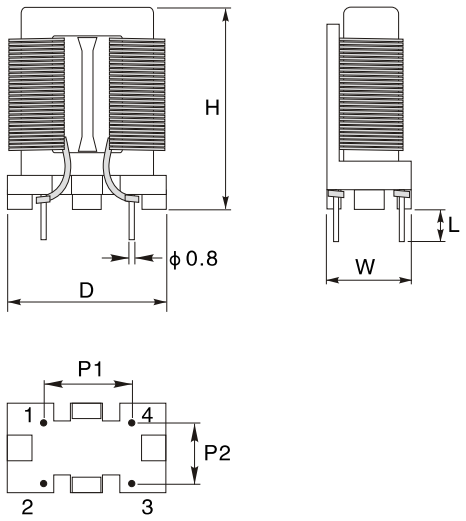


Fig 2

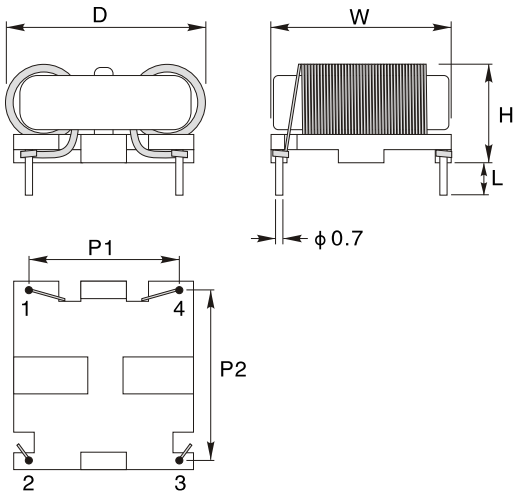
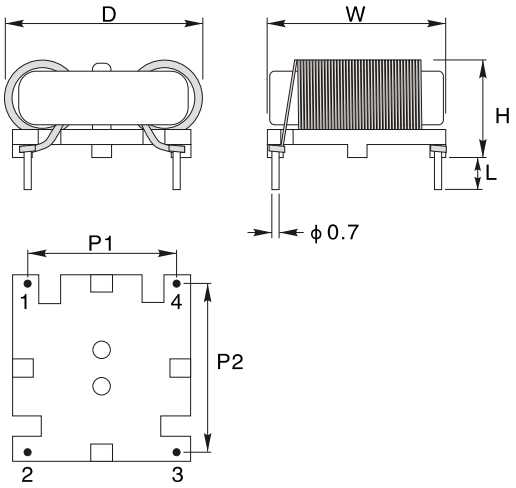
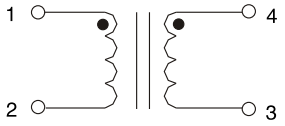


Fig 3



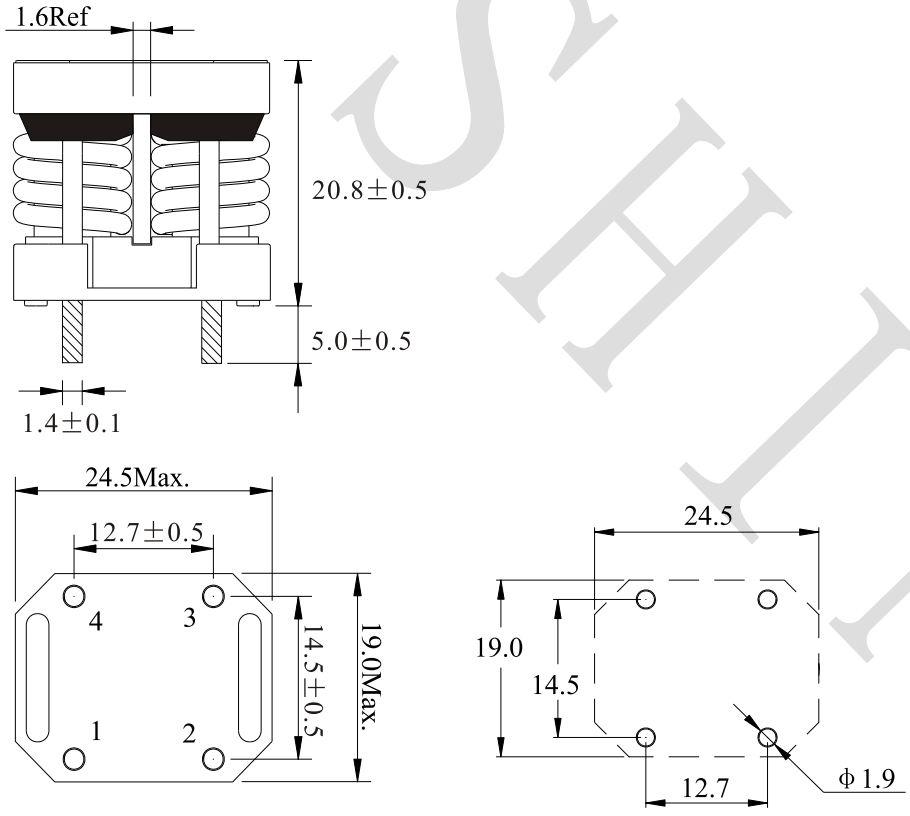


Part Number	D(mm)	W(mm)	H(mm)	L(mm)	Pin pitch(mm)	Fig.
SQ2418H/VA-283Y-2.0A	24.0	14.0	32.0	3.5±1	13.0*10.0	1
SQ2418H/VA-293Y-2.5A	24.0	14.5	32.0	3.5±1	13.0*10.0	1
SQ2418H/VA-173Y-4.0A	24.0	14.5	32.0	3.5±1	13.0*10.0	1
SQ2418H/VA-802Y-4.5A	24.0	14.0	32.0	3.5±1	13.0*10.0	1
SQ2418H/VA-602Y-6.0A	24.0	14.0	32.0	3.5±1	13.0*10.0	1
SQ2418H/VA-202Y-10.0A	24.0	14.5	32.0	3.5±1	13.0*10.0	1
SQ2418H/VA-283Y-2.0A	24.0	26.0	15.5	3.5±1	17.0*21.5	2
SQ2418H/VA-293Y-2.5A	24.0	26.0	15.0	3.5±1	17.0*21.5	2
SQ2418H/VA-173Y-4.0A	26.0	26.0	15.5	3.5±1	17.0*21.5	2
SQ2418H/VA-602Y-6.0A	26.0	25.5	14.0	3.5±1	17.0*21.5	2
SQ2418H/VA-202Y-10.0A	24.0	28.0	15.0	3.5±1	20.0*22.5	3

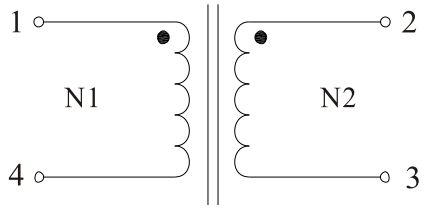
SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840

Rev.	Description	Date
A0	New release	2023.12.29

1.PHYSICAL CHARACTERISTICS(mm)



2.ELECTRONICAL SCHEMATIC



3.ELECTRONICAL SPECIFICATIONS@25℃

Inductance: 120uH Min@100KHz,0.1V

IDC: 22.0A Max

RDC: 2.4mΩ Max

Operating temperature: -40℃ to +125℃

(Including self-temp. rise)

Storage temperature: -40℃ to +125℃

Test Instrument:

L: HP4284A

RDC: HM2540

Note:

1.Solderability:leads shall meet MIL-STD-202, Method 208D for solderability.

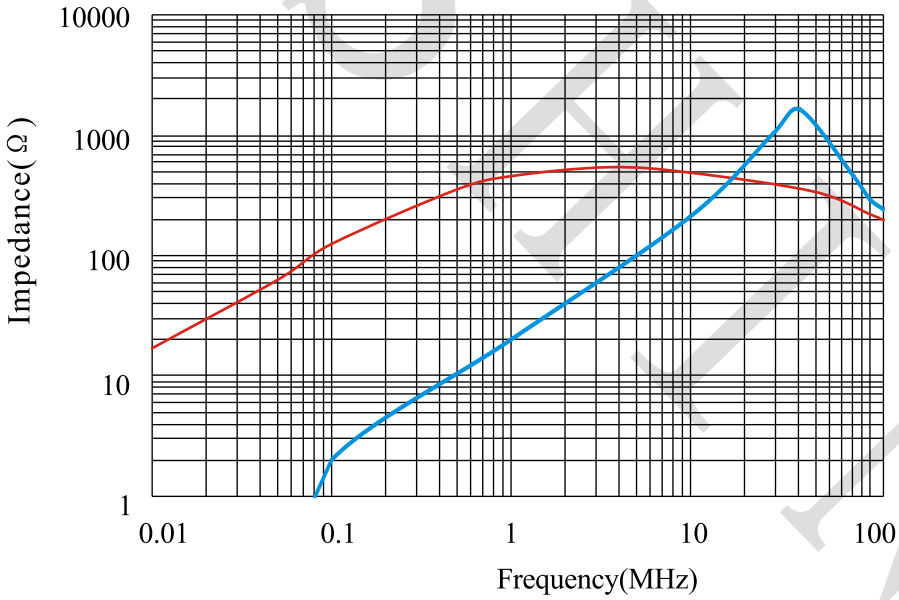
2.Flammability: UL94V-0

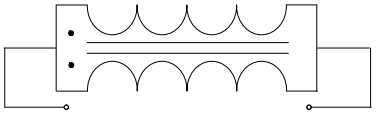
3.ASTM oxygen index: >28%

NAME:	Common mode choke		
CUSTOMER P/N:		DATE:	2023-12-29
SHINHOM P/N:	SQ2420-121Y-22A	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

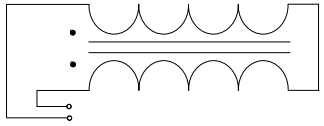
SHINHOM SHAANXISHINHOM ENTERPRISE CO LTD

Impedance vs Frequency





Common Mode



Differential Mode

Common mode:

Differential mode:

SHINHOM

SHAANXISHINHOM ENTERPRISE CO LTD

NAME:	Common mode choke		
CUSTOMER P/N:		DATE:	2023-12-29
SHINHOM P/N:	SQ2420-121Y-22A	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

AUTO FLAT WIRE COMMON MODE CHOKES
SQ2820 SERIES

FEATURES:

- High current, low profile, high efficiency, low temperature rise
- Interturn capacitance is smaller than toroidal core, high insulation strength and high reliability
- Use the flat wire, improving the space factor
- Single phase winding, thereby dramatically reduce stray capacitance
- EMI suppression is excellent

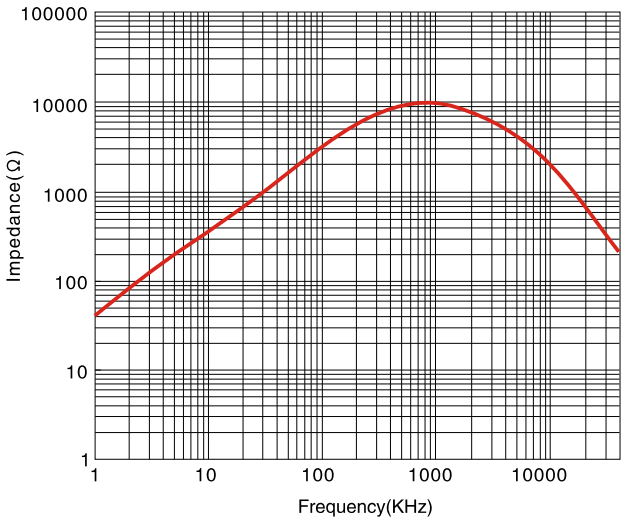
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min @1KHz,0.1V	Rated current (A)Max	DCR (mΩ)Max	Rated voltage (V)
SQ2820H/V-602Y-11.0A	6.0+50%/-30%	11.0	25	300

NOTES:

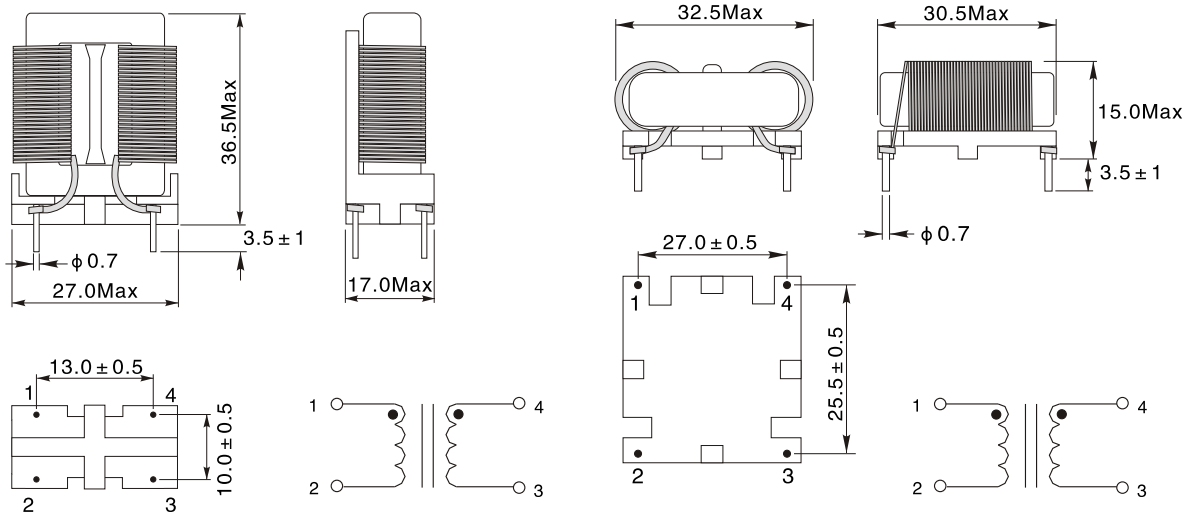
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.Please make sure that the temperature of the coil is not exceeded the operating temperature range.

IMPEDANCE VS FREQUENCY:



PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



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AUTO FLAT WIRE COMMON MODE CHOKES
SQ3324 SERIES

FEATURES:

- High current, low profile, high efficiency, low temperature rise
- Interturn capacitance is smaller than toroidal core, high insulation strength and high reliability
- Use the flat wire, improving the space factor
- Single phase winding, thereby dramatically reduce stray capacitance
- EMI suppression is excellent

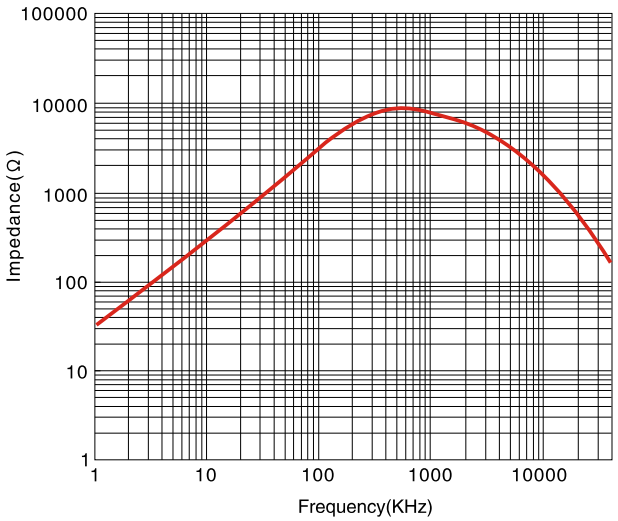
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min @1KHz,0.1V	Rated current (A)Max	DCR (mΩ)Max	Rated voltage (V)
SQ3324V-402Y-15.0A	4.0	15.0	15	300

NOTES:

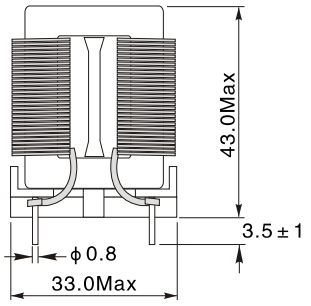
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.Please make sure that the temperature of the coil is not exceeded the operating temperature range.

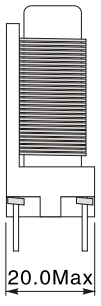
IMPEDANCE VS FREQUENCY:

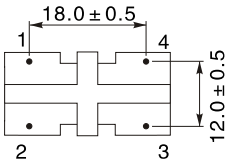


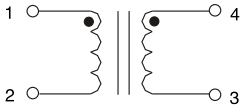
PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm









SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840

SMD HIGH CURRENT FLAT WIRE COMMON MODE CHOKE

SQS1212HP SERIES

FEATURES:

- Compact size, low DCR, low leakage due to square core.
- High permeability material, High impedance at low frequency.
- High attenuation to noise, due to low stray capacitance.
- Flammability tested to U.L. 94 V-0.
- Low cost, high consistency with automated production.
- RoHS, REACH compliance, Halogen free available.

APPLICATIONS:

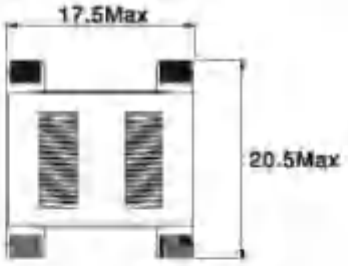
- Solutions for use in a wide array of power supply circuits.
- High desity switching mode power supply devices.
- Ideal for use in consumer electronics and industrial applications: LCD TV, Battery chargers, Power Adapter, Home appliances.
- Space saving for existing Common Mode Chokes.

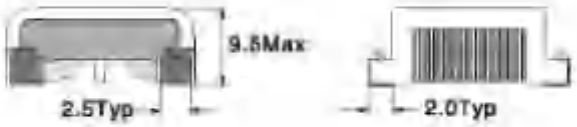
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min	Common mode peak Impedance (kΩ)	Leakage Inductance (μH)Max	DCR (mΩ) Max	Rated current (A)Max
SQS1212HP-182Y	1.8	5.38@2.69MHz	120	25	3.6
SQS1212HP-352Y	2.5	7.37@2.56MHz	130	36	3.0
SQS1212HP-362Y	3.6	11.72@2.34MHz	140	52	2.5
SQS1212HP-562Y	5.6	17.69@2.23MHz	160	95	1.8
SQS1212HP-702Y	7.0	19.62@2.15MHz	200	115	1.5
SQS1212HP-852Y	8.5	26.22@2.01MHz	200	158	1.2
SQS1212HP-123Y	12.0	32.44@1.55MHz	230	216	1.0
SQS1212HP-153Y	15.0	39.25@1.15MHz	280	315	0.8
SQS1212HP-223Y	22.0	57.64@0.85MHz	360	500	0.6

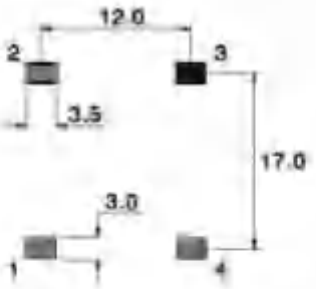
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

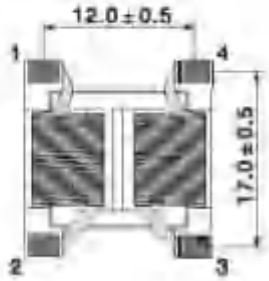
DIMENSIONS IN:mm





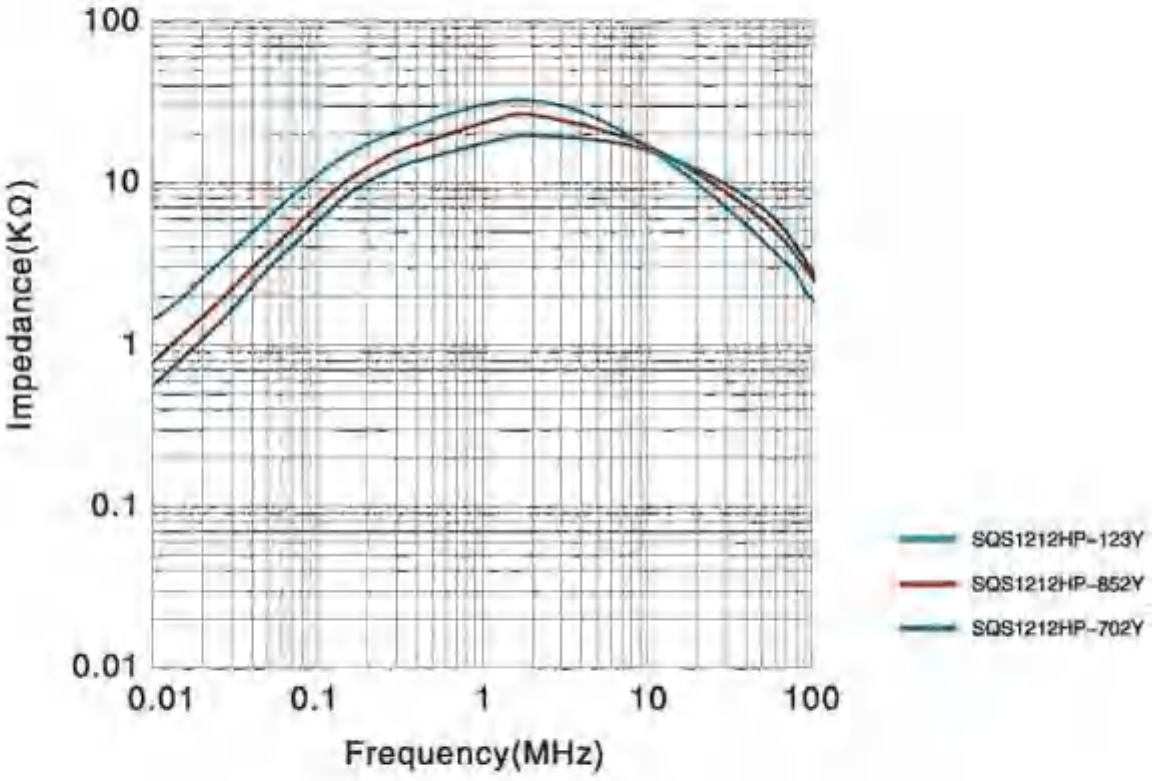
LAND PATTERNS

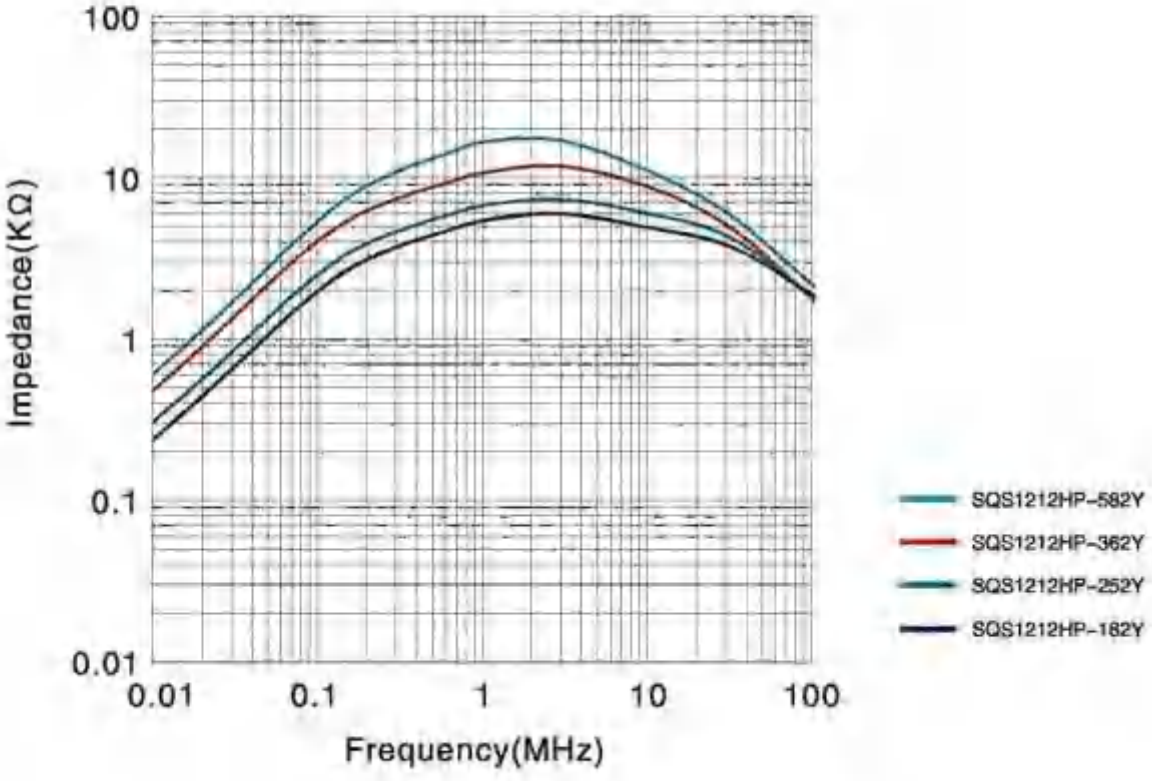




- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:GuadTech 1880 Milliohmmeter
- Rated voltage: 80VAC~ 260VAC
- High withstanding voltage between windings:2400VAC /60 sec.
- High insulation resistance 100MΩ Min.@ 500VDC between windings.
- Operating temperature:-40℃~+125℃ (including coil temperature rise).
- Storage temperature:- 40℃~ +85℃.
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E

IMPEDANCE VS FREQUENCY:





SMD Flat Common Mode Chokes

SQS1515A SERIES

FEATURES:

- Compact size,low DCR,low leakage due to square core
- High permeability material,High impedance at low frequency
- High attenuation to noise,due to low stray capacitance
- Flammability tested to UL94V-0
- High withstanding voltage between winding
- High insulation resistance
- Low cost,high consistency with automated production
- RoHS,REACH compliance

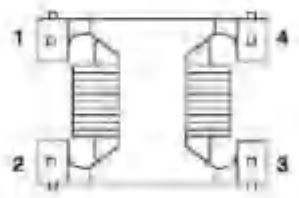
APPLICATION:

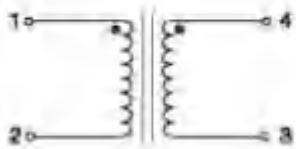
- Solutions for use in a wide array of power supply circuits
- High desity switching mode power supply devices
- Ideal for use in consumer electronics and industrial applications: LCD TV,Battery chargers,Power Adapter,Home appliances
- Space saving for existing Common Mode Chokes

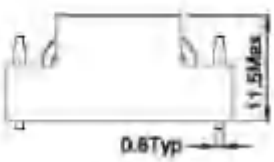
ELECTRICAL CHARACTERISTICS:

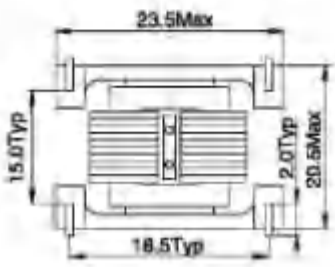
Part Number	Inductance Min. (mH).	DCR Max. (mΩ).	Rated current (A)
SQS1515A-203-1.5A	20.0	250	1.5-2.0
SQS1515A-153-1.8A	15.0	200	1.8-2.2
SQS1515A-153-2.0A	15.0	180	2.0-2.8
SQS1515A-103-2.0A	10.0	150	2.0-2.5
SQS1515A-103-2.5A	10.0	80	2.5-3.0
SQS1515A-502-2.5A	5.0	80	2.5-3.5
SQS1515A-302-3.5A	3.0	70	3.5-4.5
SQS1515A-202-5.0A	2.0	60	5.0-6.0

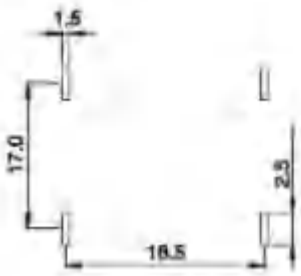
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:











LAND PATTERNS

Note:

- Test frequency 1.0KHz,0.25V
- Rated voltage 60Vac-250Vac
- Insulation voltage 1.5KVac,60Sec
- Operating temperature ..... -25℃ to +125℃ Including coil temperature rise
- Storage temperature ..... -25℃ to +100℃
- Hi-Pot 2400Vac/60Sec
- Insulation resistance ..... 100MΩ Min@500Vdc
- Power range 80W-120W

SMD Flat Common Mode Chokes

SQS1515B SERIES

FEATURES:

- Compact size,low DCR,low leakage due to square core
- High permeability material,High impedance at low frequency
- High attenuation to noise,due to low stray capacitance
- Flammability tested to UL94V-0
- High withstanding voltage between winding
- High insulation resistance
- Low cost,high consistency with automated production
- RoHS,REACH compliance

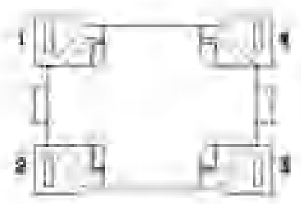
APPLICATION:

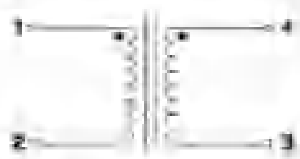
- Solutions for use in a wide array of power supply circuits
- High density switching mode power supply devices
- Ideal for use in consumer electronics and industrial applications LCD TV,Battery chargers,Power Adapter,Home appliances
- Space saving for existing Common Mode Chokes

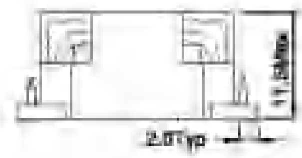
ELECTRICAL CHARACTERISTICS:

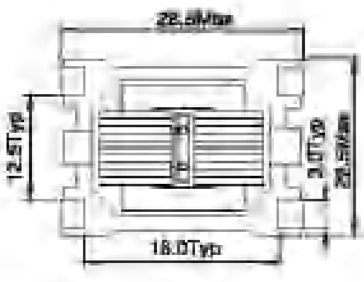
Part Number	Inductance Min. (mH)	DCR Max. (mΩ)	Rated current (A)
SQS1515B-203-1.5A	20.0	350	1.5~2.0
SQS1515B-153-1.8A	15.0	200	1.8~2.2
SQS1515B-153-2.0A	15.0	180	2.0~2.8
SQS1515B-103-2.0A	10.0	150	2.0~2.5
SQS1515B-103-2.5A	10.0	90	2.5~3.0
SQS1515B-502-2.5A	5.0	80	2.5~3.5
SQS1515B-302-3.5A	3.0	70	3.5~4.5
SQS1515B-202-5.0A	2.0	60	5.0~6.0

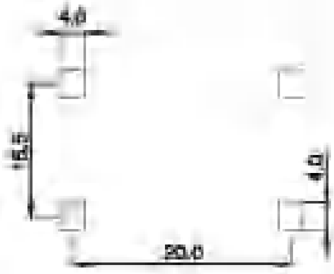
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:











LAND PATTERNS

Note:

- Test frequency 1.0KHz,0.25V
- Rated voltage .... 50Vac~250Vac
- Insulation voltage 1.5KVac,60Sec
- Operating temperature .... -25℃ to +105℃ including coil temperature rise
- Storage temperature .... -25℃ to +100℃
- Hi-Pot 2400Vac/60Sec
- Insulation resistance .... 100MΩ Min@500Vdc
- Power range .... 40W~120W

SMD Flat Common Mode Chokes

SQS1515C SERIES

FEATURES:

- Compact size,low DCR,low leakage due to square core
- High permeability material,High impedance at low frequency
- High attenuation to noise,due to low stray capacitance
- Flammability tested to UL94V–0
- High withstanding voltage between winding
- High insulation resistance
- Low cost,high consistency with automated production
- RoHS,REACH compliance

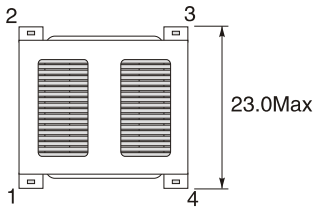
APPLICATION:

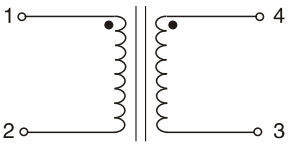
- Solutions for use in a wide array of power supply elreuits
- High desity switching mode power supply devices
- Ideal for use in consumer electroinics and industrial applications: LCD TV,Battery chargers,Power Adapter,Home appliances
- Space saving for existing Common Mode Chokes

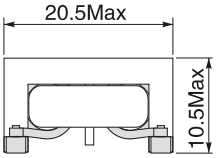
ELECTRICAL CHARACTERISTICS:

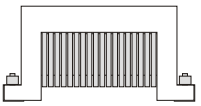
Part Number	Inductance Min. (mH).	DCR Max. (mΩ).	Rated current (A)	Wire (mm)	Turns	Power (W)
SQS1515C–001	20–40	300	1.0–1.5	0.1*1.0	67	30–60
SQS1515C–002	15–30	220	1.3–1.8	0.13*1.0	56	30–60
SQS1515C–003	13–25	180	1.5–2.0	0.15*1.0	50	30–60
SQS1515C–004	13–25	160	1.8–2.5	0.15*1.2	50	65–80
SQS1515C–005	10–25	140	2.0–3.0	0.15*1.5	50	65–120
SQS1515C–006	5–15	140	2.0–2.5	0.2*1.0	40	60–80
SQS1515C–007	5–15	80	2.5–3.0	0.2*1.5	40	80–150
SQS1515C–008	4–10	100	2.0–2.8	0.25*1.0	33	80–150
SQS1515C–009	4–10	80	3.5–4.5	0.25*1.5	33	80–200
SQS1515C–010	2–5	60	3.0–3.8	0.3*1.2	27	80–200
SQS1515C–011	2–5	50	4.0–5.0	0.3*1.5	27	80–200
SQS1515C–012	1–4	40	5.0–6.0	0.35*1.5	24	80–200

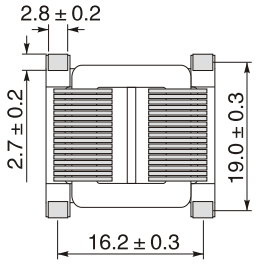
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

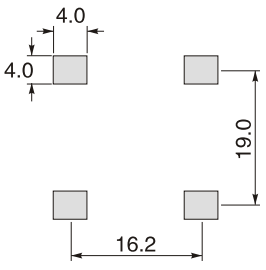












LAND PATTERNS

Note:

- Test frequency 1.0KHz,0.25V
- Rated voltage .....90Vac~250Vac
- Operating temperature .....–25℃ to +125℃
  Including coil temperature rise
- Storage temperature .....–25℃ to +100℃
- Hi–Pot..... 1500Vac/60Sec
- Insulation resistance.....100MΩMin@500Vdc
- Power range 30W–200W

SMD Flat Common Mode Chokes

SQS1918 SERIES

FEATURES:

- Compact size,low DCR,low leakage due to square core
- High permeability material,High impedance at low frequency
- High attenuation to noise,due to low stray capacitance
- Flammability tested to UL94V-0
- High withstanding voltage between winding
- High insulation resistance
- Low cost,high consistency with automated production
- RoHS,REACH compliance

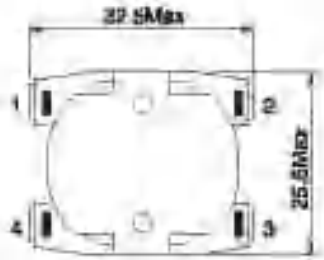
APPLICATION:

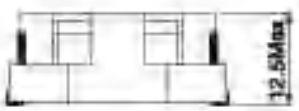
- Solutions for use in a wide array of power supply circuits
- High quality switching mode power supply devices
- Ideal for use in consumer electronics and industrial applications: LCD TV,Battery chargers,Power Adapter,Home appliances
- Space saving for existing Common Mode Chokes

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance Min. (mH).	DCR Max. (mΩ).	Rated current (A)
SQS1918-603-3.0A	6.0	100	3.0
SQS1918-125-2.0A	12.0	115	2.0
SQS1918-223-1.5A	22.0	150	1.5

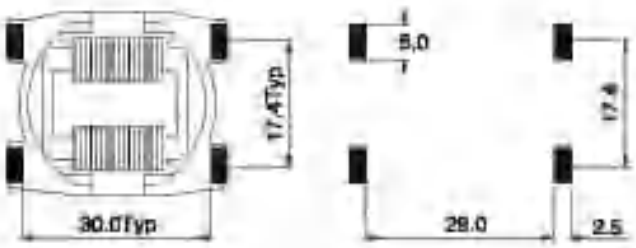
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:





Items

- Test frequency 1.0KHz,0.25V
- Rated voltage ..... 30Vac~250Vac
- Insulation voltage 1.5KVac,60Sec
- Operating temperature ..... -25℃ to +125℃ including coil temperature rise
- Storage temperature ..... -25℃ to +100℃
- Hi-Pot 3400Vac/60Sec
- Insulation resistance ..... 100MΩ Min.@500Vdc



LAND PATTERNS

SMD LINE FILTER

STR0602 SERIES

FEATURES:

- Compact design.
- Single layer winding for minimum capacitance.
- Meets UL 94V-0 flammability standard.
- Available on tape and reel for auto surface mounting.

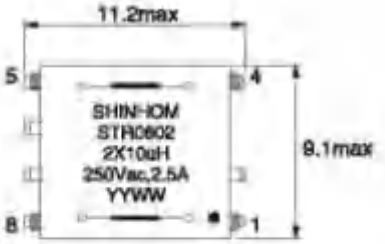
APPLCATIONS:

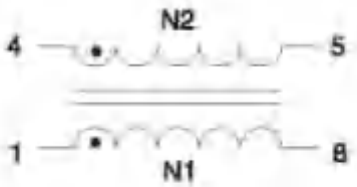
- EMI filters.
- Personal computers.
- Communication equipment.

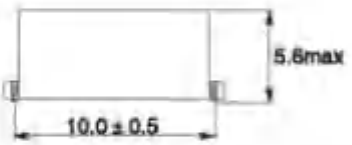
ELECTRICAL CHARACTERISTICS:

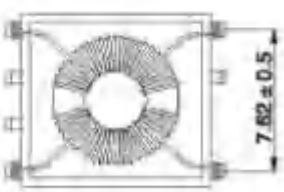
Part Number	L1=L2(uH) @10KHz,0.1V ±30%	DCR (winding) (mΩ) max.	Rated Current (A)max.
STR0602-100N	10	25	2.5
STR0602-150N	15	40	2.0
STR0602-200N	20	70	1.5
STR0602-121N	120	25	2.5
STR0602-201N	200	40	2.0
STR0602-301N	300	70	1.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

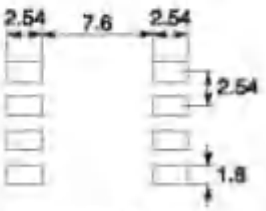








Bottom view

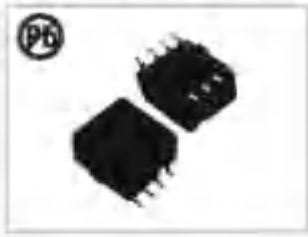


Layout recommendation

- IDC Max:Determined when superimposed
- Inductance test: HP4284A 10KHz 0.1V
- RDC:QuadTech 1880 Milliohmmeter
- Operating temperature: -25℃ to +105℃
- Storage Temperature: -25℃ to +105℃
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Date

Note:All specifications subject to change without notice.

SMD LINE FILTER
STR0603 SERIES



FEATURES:

- SMD Housing
- High Frequency Design
- Excellent Mechanical Strength
- Excellent Solderability
- High Reliability
- Low Profile

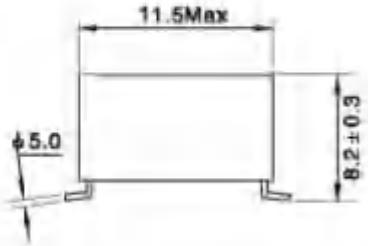
COMMON APPLICATIONS:

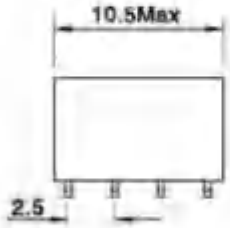
- VCRs
- Video Cameras
- Communication System
- Automotive Systems
- Liquid Crystal Televisions
- Hard Disk Drives
- Network Systems
- Computer Peripheral Equipment

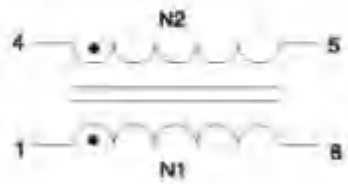
ELECTRICAL CHARACTERISTICS:

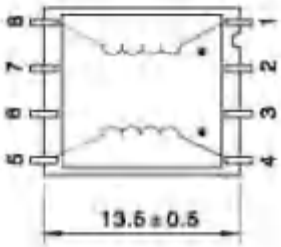
Part Number	L mH	Test Freq KHz	DCR Ω Max	IDC A Max
STR0603-102Y	1.0	1	0.82	0.5
STR0603-501Y	0.5	1	0.45	0.6
STR0603-221Y	0.22	1	0.22	0.8
STR0603-151Y	0.15	1	0.15	1.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

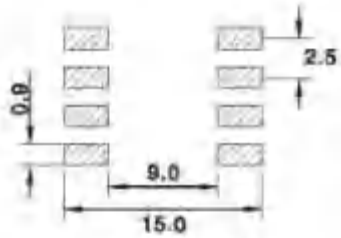








Bottom view



Layout recommendation

- IDC Max:Determined when superimposed
- Testing: (Equivalent acceptable) Inductance:HP4284A
  RDC:QuadTech 1880 Milliohmmeter
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SMD LINE FILTER

STR0903 SERIES

FEATURES:

Approx. 0.8% stray inductance for differential-mode interference suppression
- Suitable for reflow soldering
Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

OPTIONS:

- Tape & Reel is Standard (Qty:350pcs)
- Bulk packaging Available for Smaller Quantities

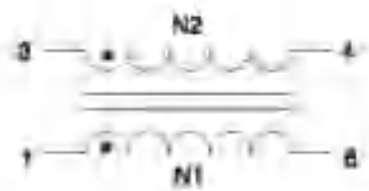
COMMON APPLCATIONS:

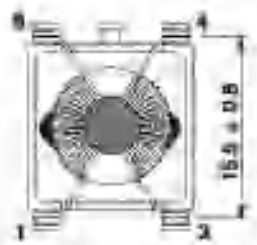
- Suppression of common-mode interferences
- Connect electronic ballasts to lamps
- Compact switch-mode power supplies

ELECTRICAL CHARACTERISTICS:

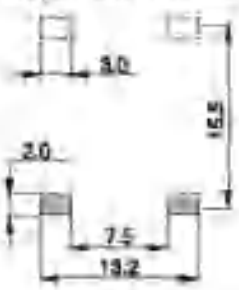
Part Number	L1-2(mH) @100KHz,0.1V ±50%/-30%	L3(1-2)(uH) @10KHz,0.1V (4-5 short)min	DCR (winding) (mΩ) max.	Rated Current (A)max.	Hi-Pot Vac,2S
STR0903-112Y	1.1	8	65	2.0	1500
STR0903-182Y	1.8	10	110	1.5	1500
STR0903-302Y	3.0	20	220	1.0	1500
STR0903-442Y	4.4	30	400	0.8	1500
STR0903-123Y	12	80	1100	0.5	1500
STR0903-223Y	22	120	1500	0.3	1500

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:





Layout recommendation



- Operating voltage: 250Vac
- IDC Max:Determined when superimposed
- Inductance test: HP4284A 10KHz 0.1V
- RDC:ChaoTech 1696 Milliohmmeter
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Temperature rise 40℃ Max
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Date

Note:All specifications subject to change without notice.

COMMON MODE POWER LINE CHOKE

STR1206 SERIES

FEATURES:

- Approx. 0.7% stray inductance for differential-mode interference suppression
- Suitable for reflow soldering
- Design complies with EN 60938-2 (VDE 0565-2) and UL 1283
- RoHS-compatible

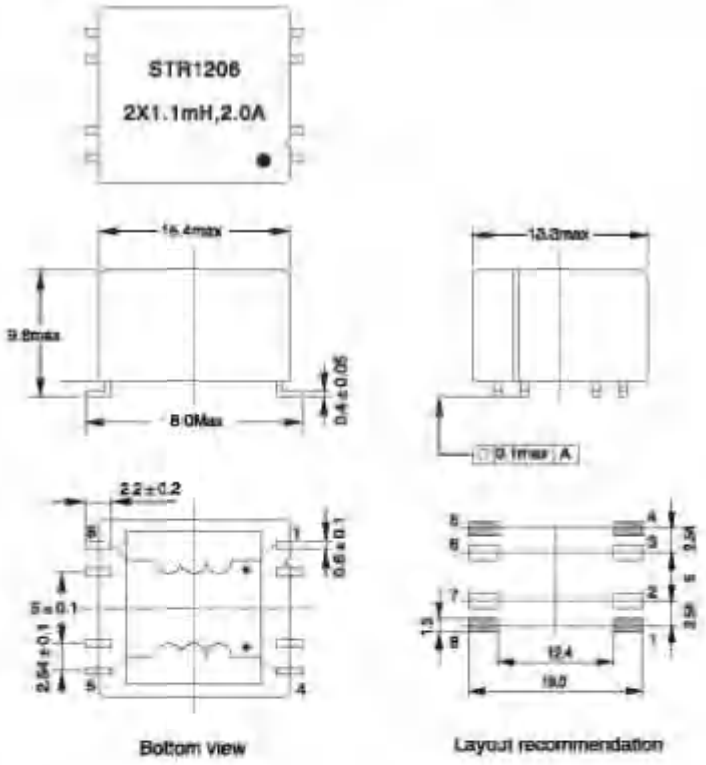
APPLICATIONS:

- Suppression of common-mode interferences
- Compact switch-mode power applications
- Compact electronic ballasts in lamps

ELECTRICAL CHARACTERISTICS:

Part Number	L(mH) +50%/-30%	Lk(uH) Typ	Rated Current (A)	RDC(mΩ) Max
STR1206-112Y	1.1	6	2.0	65
STR1206-162Y	1.6	10	1.5	110
STR1206-302Y	3.0	20	1.0	220
STR1206-442Y	4.4	30	0.6	400
STR1206-123Y	12	80	0.3	1100
STR1206-223Y	22	130	0.3	1500

PHYSICAL CHARACTERISTICS:



Bottom view

Layout recommendation

Winding

Notes:

Rated voltage.....250Vac

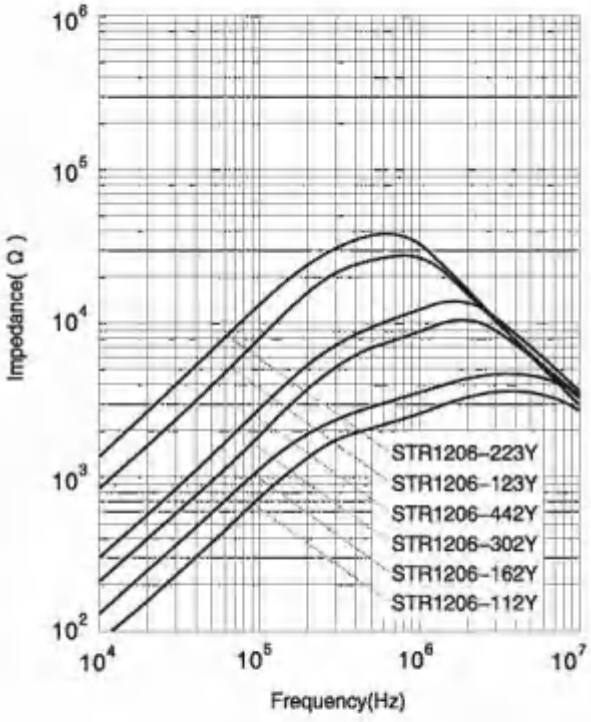
Frequency.....50/60Hz

Insulation test voltage.....1500V

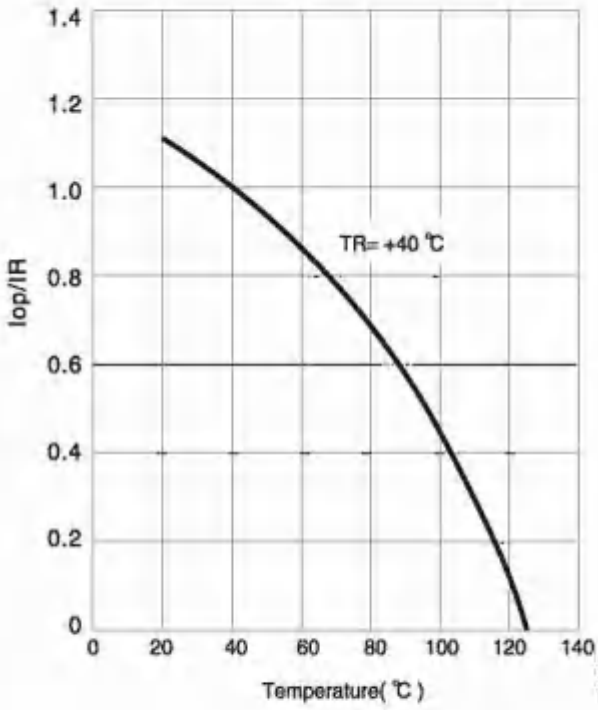
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

Impedance |Z| versus frequency F
measured with windings in parallel at +20℃
typical values



Current derating Iop/IR
versus ambient temperature TA



COMMON MODE CHOKE COIL

STR804 SERIES

FEATURES:

- Wire wound constructure common mode choke with best EMI suppression effect high impedance but very high rated current and low DCR.

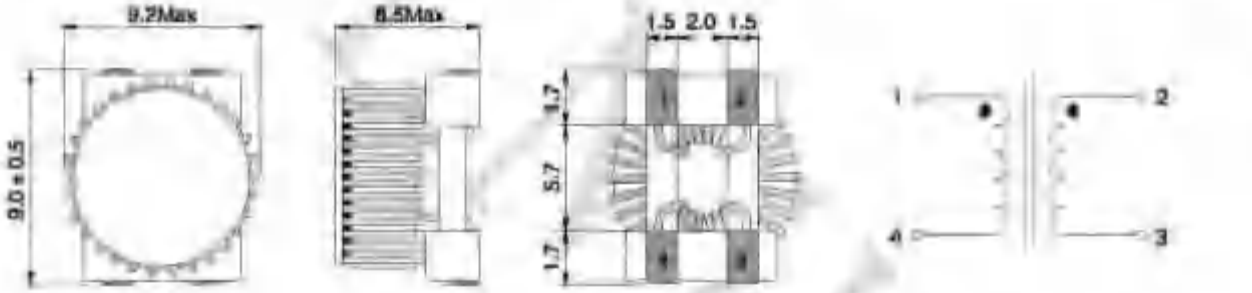
APPLICATIONS :

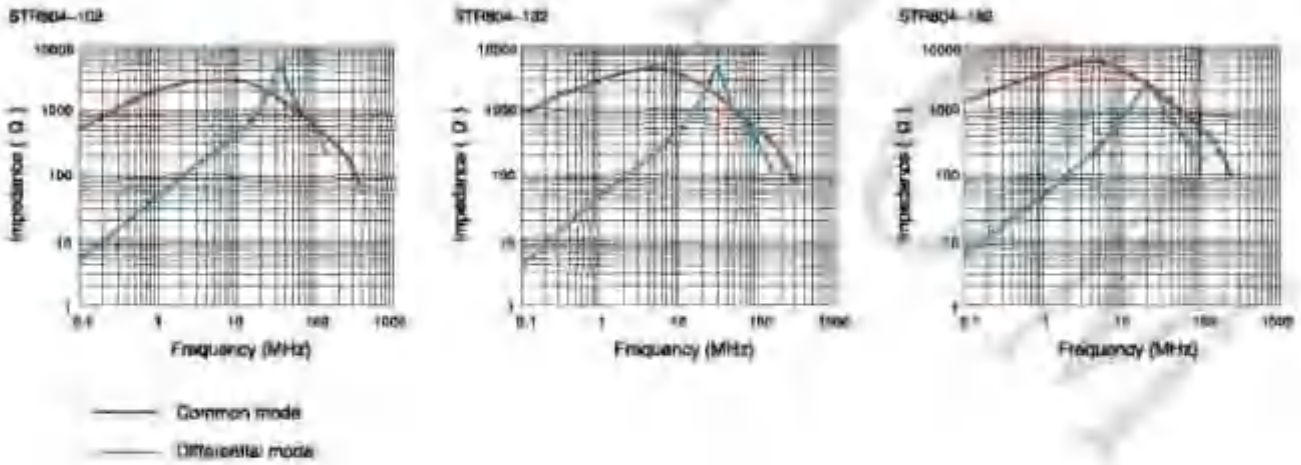
- Preventive measure against common mode noise radiation emissions from power line or else.
- Best for high current circuit such as car, wireless charging and power device design.

ELECTRICAL CHARACTERISTICS@25℃

Part Number	Impedance (Ω)Ref N1=N2	Test frequency	DCR (mΩ)Max	IDC (A)Max
STR804-102	1000	100KHz/0.25V	100	2.5
STR804-132	1300	100KHz/0.25V	115	2.4
STR804-162	1600	100KHz/0.25V	130	2.3

PHYSICAL CHARACTERISTICS & WINDING





Note:

- Z test with HP4191A or HP4395A
- RDC:QuadTech 1880 Milliohmmeter
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds

Note:All specifications subject to change without notice.

SMT COMMON MODE CHOKES

STRF01 SERIES

FEATURES:

- Common mode chokes for AC power lines
- High impedance to minimize common mode noise
- Excellent EMI priformance
- Meets UL94V–0 flammability standard

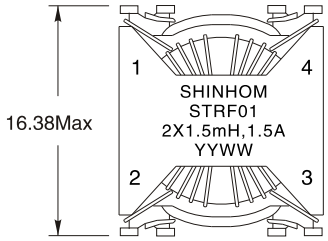
APPLICATIONS:

- EMI filters
- DC–DC brick power supplies
- Discrete output supplies
- Discrete and point–of–use power supplies

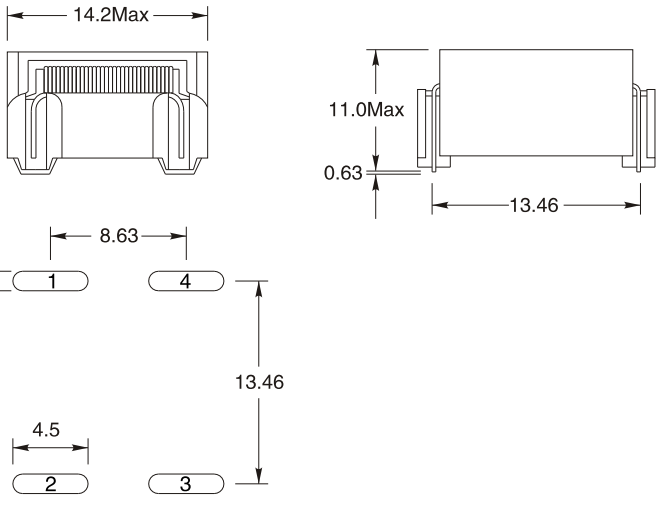
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH)Min 10KHz,0.1V	IDC (A)Max	DCR (mΩ)Max	Hi–Pot 1mA/2S/60Hz (Vac)
STRF01–651Y	650	3.6	50	1000
STRF01–801Y	800	1.5	60	1000
STRF01–152Y	1500	1.5	60	1000
STRF01–602Y	6000	1.0	450	1000
STRF01–153Y	15000	1.0	600	1000

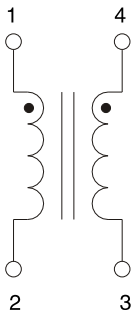
PHYSICAL CHARACTERISTICS & WINDING



Top view



Pad layout



NOTES:

Temperature Rise .....40℃ typical at IDC

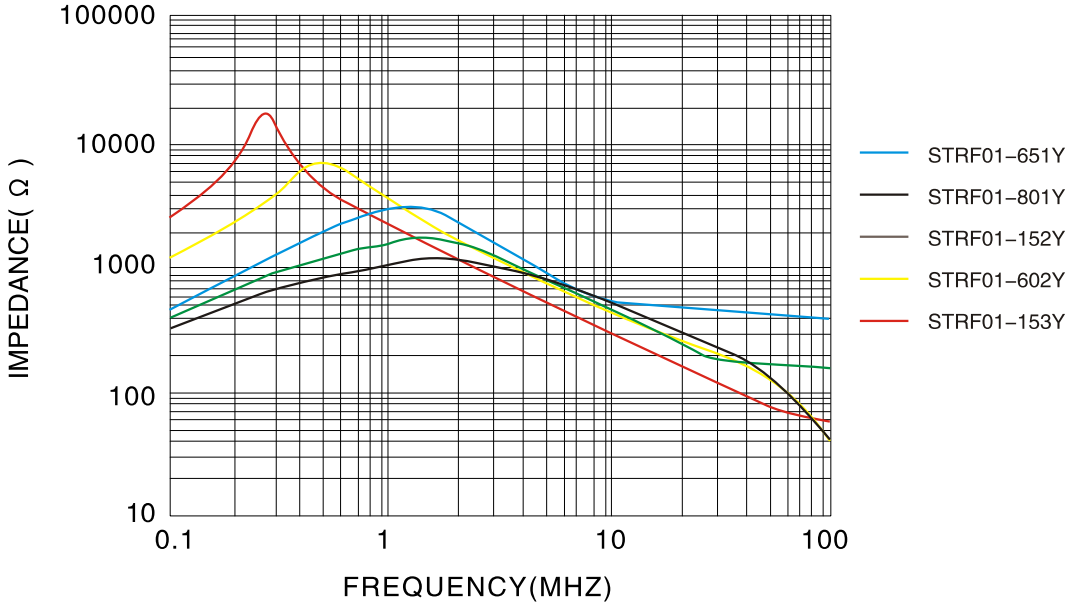
Operating Temperature .....–40℃ to +125℃(Including self temperature rise)

Storage Temperature .....–40℃ to +125℃

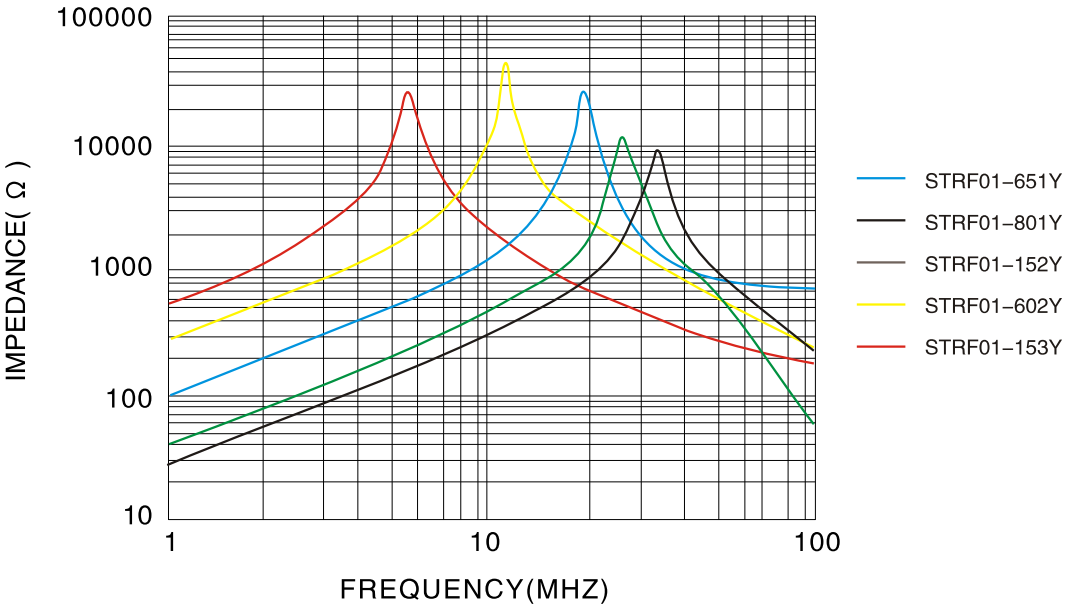
Soldering .....245℃, 5 seconds max

Dielectric Strength .....1000 Vrms between windings

IMPEDANCE COMMON MODE



IMPEDANCE DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

STRF012 SERIES

FEATURES:

- SMD Power line choke
- Compact size
- Toroidal core with sector winding
- High attenuation of common mode interferences in low and middle frequency range

APPLICATIONS:

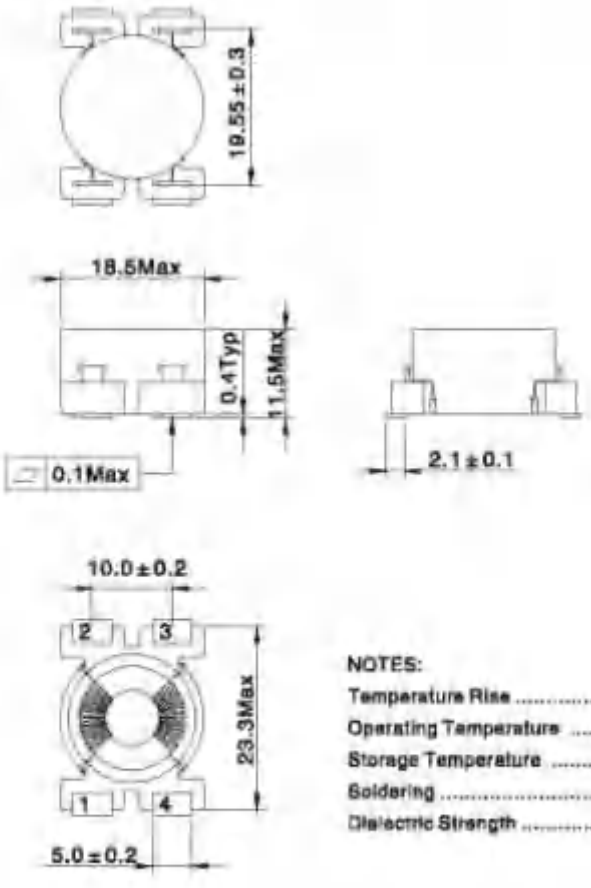
- Power electronics
- SMPS
- Mains filter

ELECTRICAL CHARACTERISTICS:

Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
STRF012-701N	0.7	±30	4.0	0.03
STRF012-102N	1.0		2.0	0.06
STRF012-222N	2.2		2.0	0.10
STRF012-332N	3.3		1.5	0.15
STRF012-682N	6.8		1.0	0.30
STRF012-103N	10		0.7	0.55
STRF012-273N	27		0.4	1.20
STRF012-393N	39		0.4	1.70
STRF012-473N	47		0.3	2.80

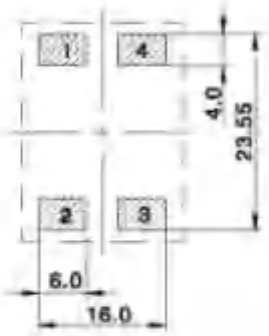
PHYSICAL CHARACTERISTICS:

Dimensions 1



Winding

Pad layout



NOTES:

Temperature Rise ..... 40℃ typical at IDC

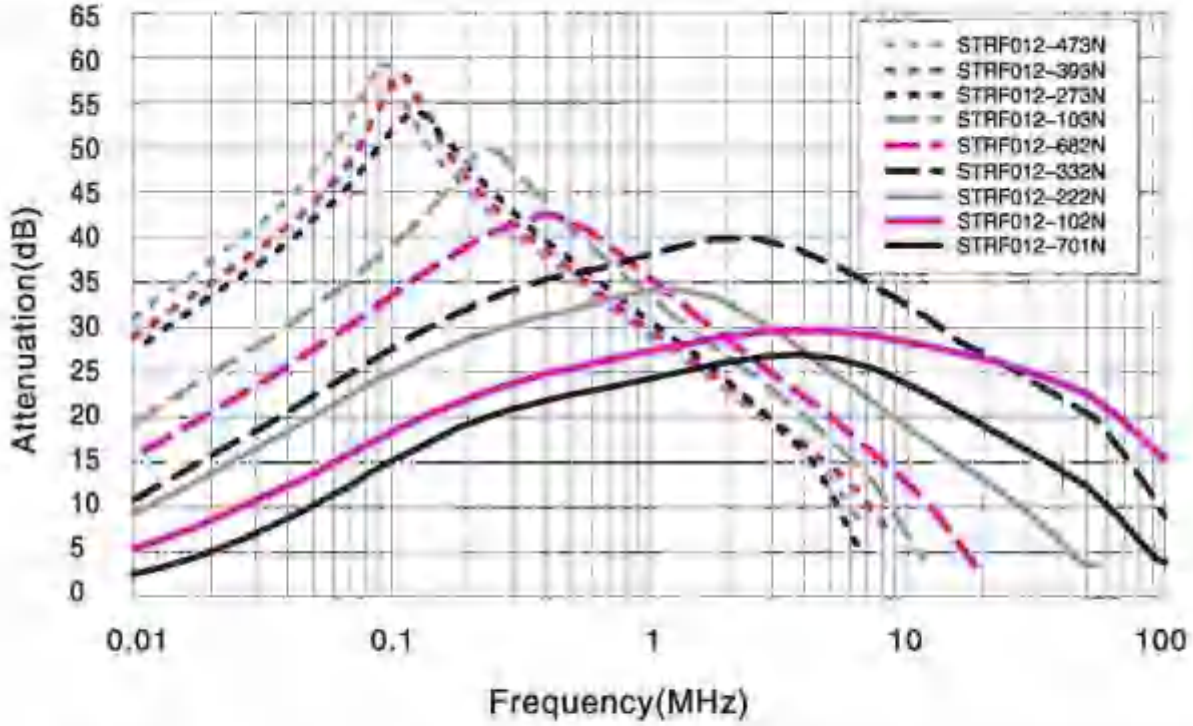
Operating Temperature ..... -40℃ to +125℃(including self temperature rise)

Storage Temperature ..... -40℃ to +125℃

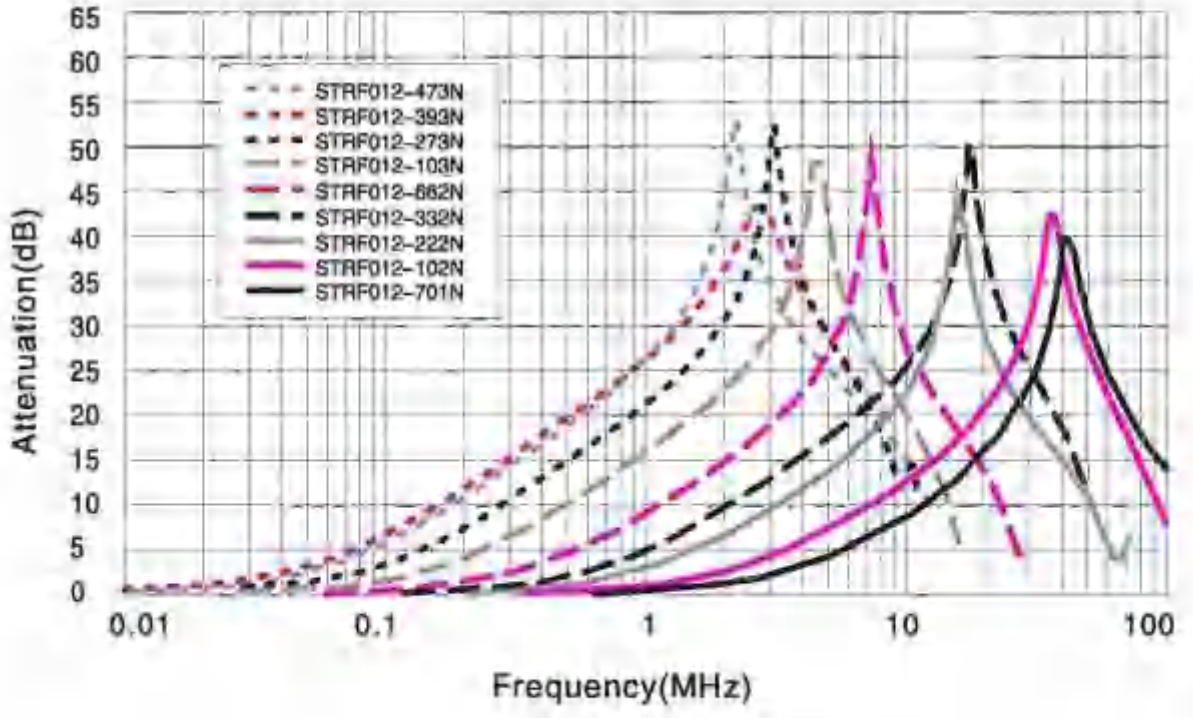
Soldering ..... 245℃, 5 seconds max

Dielectric Strength ..... 1000 Vrms between windings

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



SMT COMMON MODE CHOKES

STRF04 SERIES

FEATURES:

- Common mode chokes for AC power lines
- High impedance to minimize common mode noise
- Excellent EMI prformance
- Meets UL94V-0 flammability standard

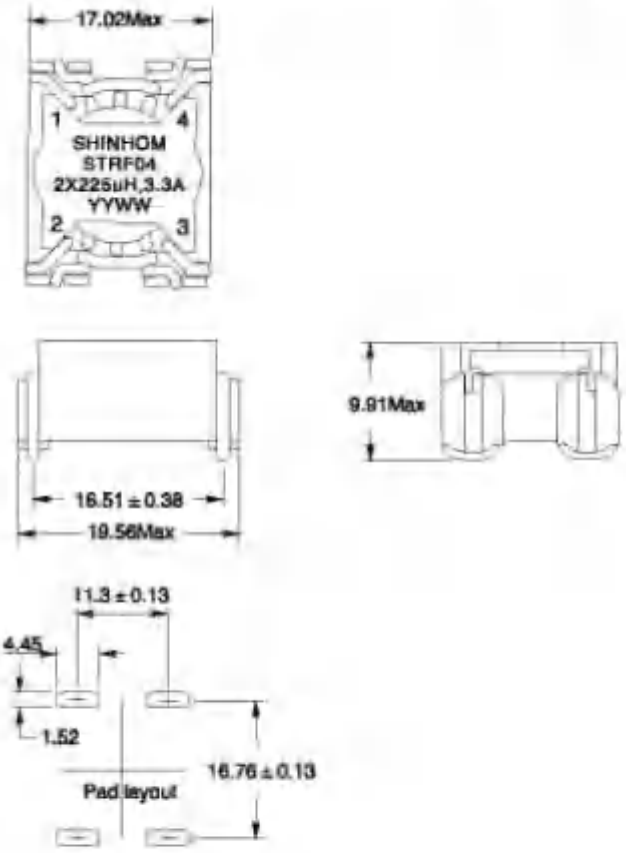
APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) ± 35% 10KHz,0.1V	IDC (A)Max	DCR (mΩ)Max	Hi-Pot 1mA/2S/60Hz (Vac)
STRF04-221Y	225	3.3	60	1000
STRF04-591Y	590	5.6	21	1000
STRF04-771Y	770	4.7	40	1000
STRF04-132Y	1320	3.3	80	1000
STRF04-152Y	1470	2.8	80	1000

PHYSICAL CHARACTERISTICS & WINDING



NOTES:

Temperature Rise ..... 40℃ typical at IDC

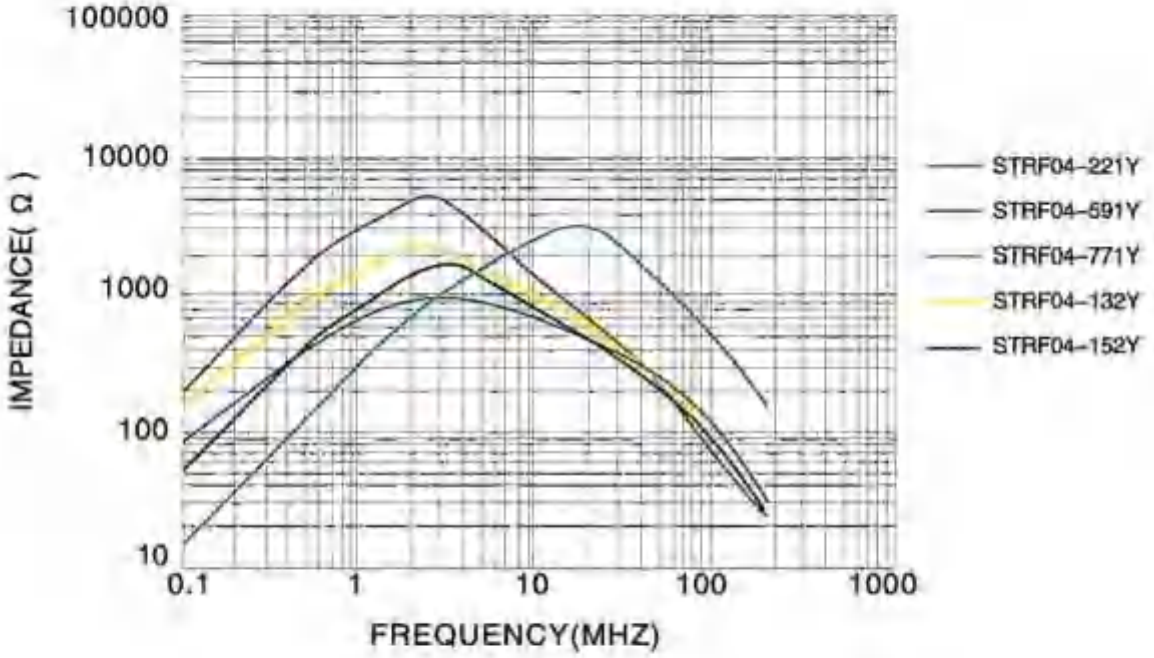
Operating Temperature ..... -40℃ to +125℃(Including self temperature rise)

Storage Temperature ..... -40℃ to +125℃

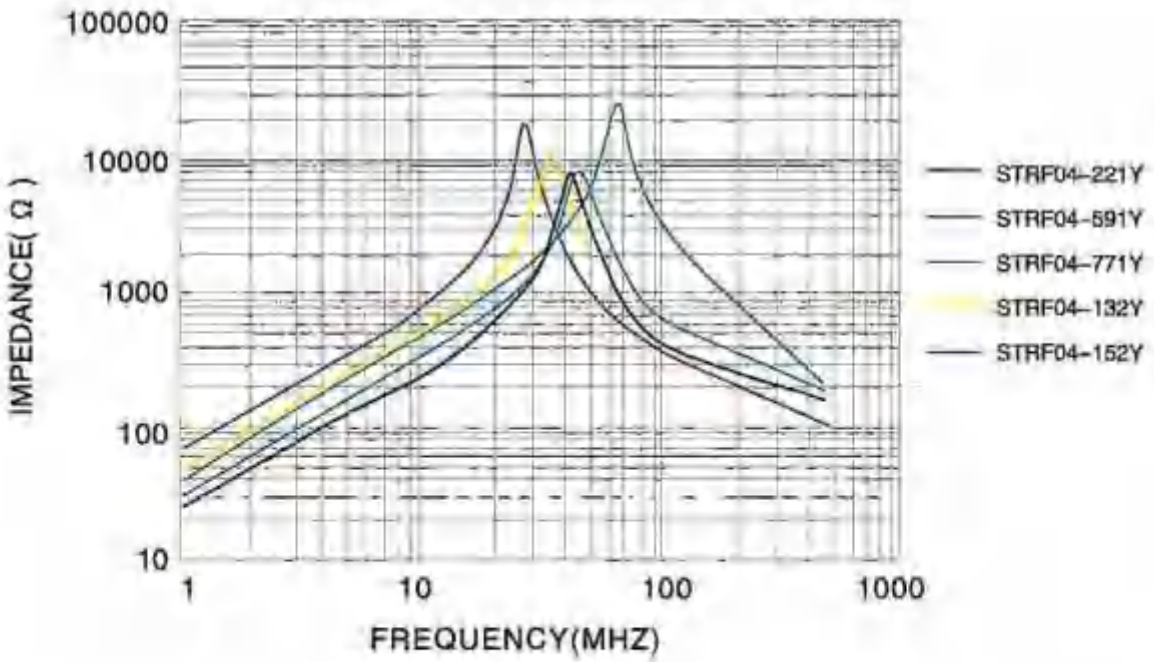
Soldering ..... 245℃, 5 seconds max

Dielectric Strength ..... 1000 Vrms between windings

IMPEDANCE COMMON MODE



IMPEDANCE DIFFERENTIAL MODE



SMT COMMON MODE CHOKES

STRF06 SERIES

FEATURES:

- Common mode chokes for AC power lines
- High impedance to minimize common mode noise
- Excellent EMI priformance
- Meets UL94V–0 flammability standard

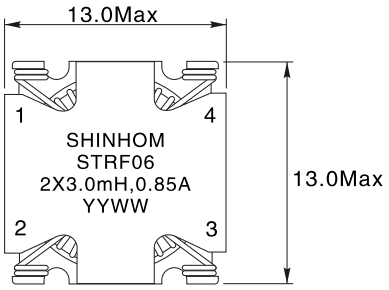
APPLICATIONS:

- EMI filters
- DC–DC brick power supplies
- Discrete output supplies
- Discrete and point–of–use power supplies

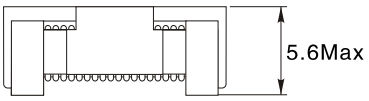
ELECTRICAL CHARACTERISTICS:

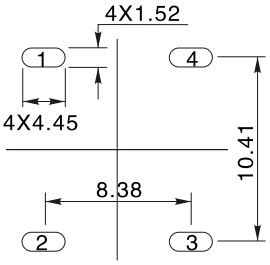
Part Number	L(0A) (uH) ± 35% 100KHz,0.1V	IDC (A)Max	DCR (mΩ)Max	Hi–Pot 1mA/2S/60Hz (Vac)
STRF06–881Y	880	1.63	110	1000
STRF06–112Y	1170	1.22	200	1000
STRF06–302Y	3000	0.85	280	1000
STRF06–392Y	3900	0.85	350	1000
STRF06–682Y	6800	0.30	700	1000

PHYSICAL CHARACTERISTICS & WINDING

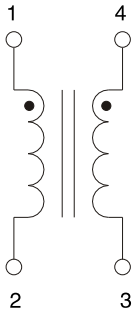


Top view





Pad layout



NOTES:

Temperature Rise .....40℃ typical at IDC

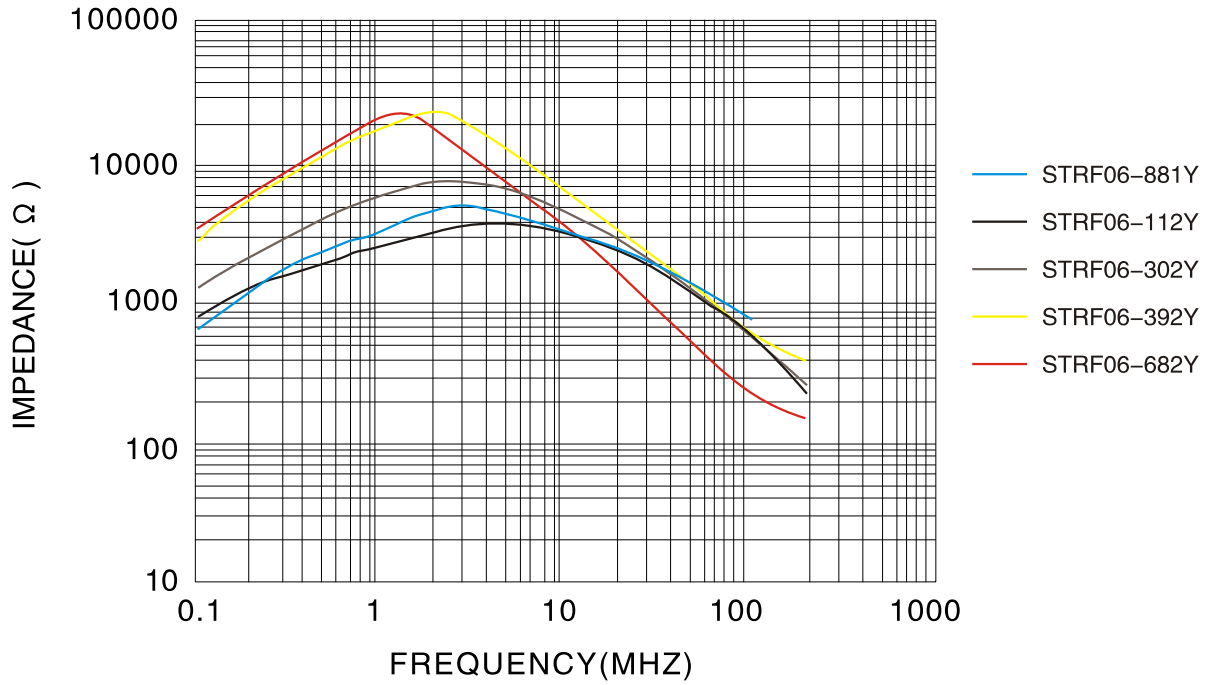
Operating Temperature .....–40℃ to +125℃(Including self temperature rise)

Storage Temperature .....–40℃ to +125℃

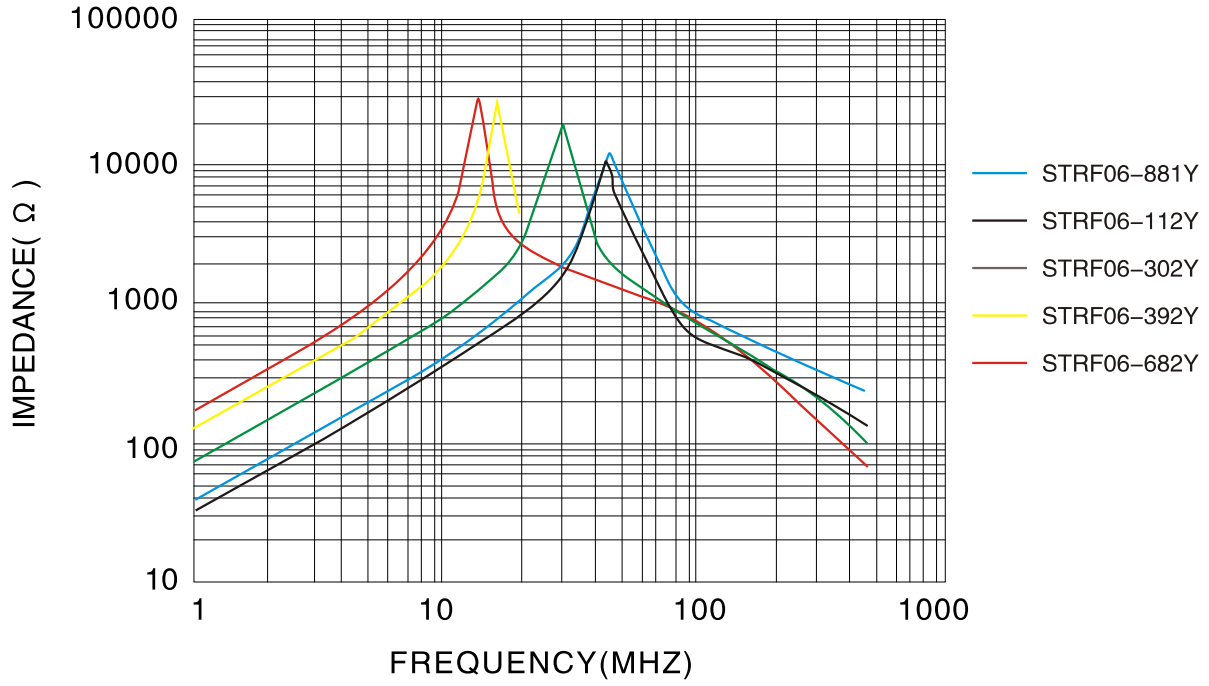
Soldering .....245℃, 5 seconds max

Dielectric Strength .....1000 Vrms between windings

IMPEDANCE COMMON MODE

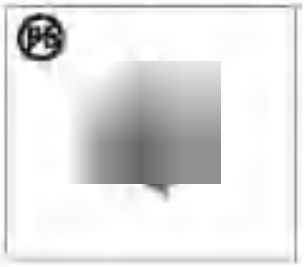


IMPEDANCE DIFFERENTIAL MODE



COMMON MODE CHOKE

STRF07 SERIEIS



FEATURES:

- Common mode choke for AC power lines
- High impedance to minimize common mode noise
- Excellent EMI performance
- Meets UL94V-0 flammability standard

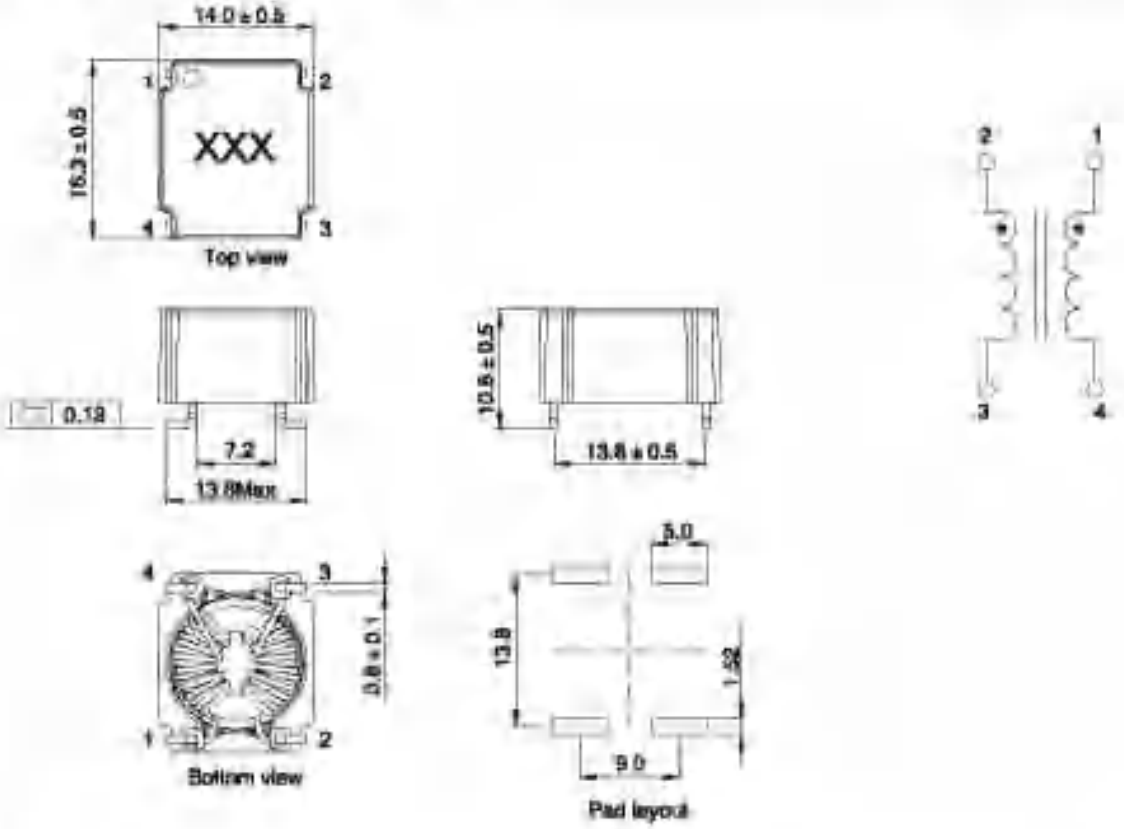
APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
  Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L@A (mH) Min 10KHz,0.1V	DCR (mΩ)Max	IDC (A)Max	Hi-Pot (Vdc) 60Hz,1mA,1S
STRF07-651Y	0.65	20	3	1000
STRF07-801Y	0.8	33	2.4	1000
STRF07-152Y	1.5	70	1.8	1000
STRF07-802Y	8.0	200	0.8	1000
STRF07-103Y	10.0	500	0.5	1000

PHYSICAL CHARACTERISTICS



NOTES:

Temperature Rise ..... 40℃ typical at IDC

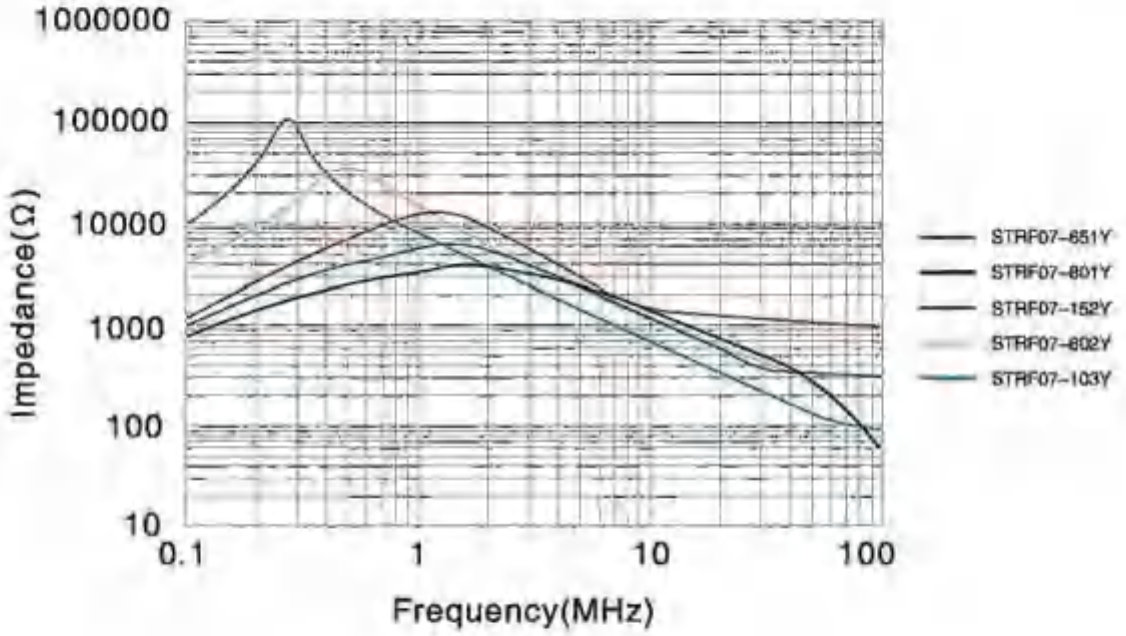
Operating Temperature ..... -40℃ to +125℃(including self temperature rise)

Storage Temperature ..... -40℃ to +125℃

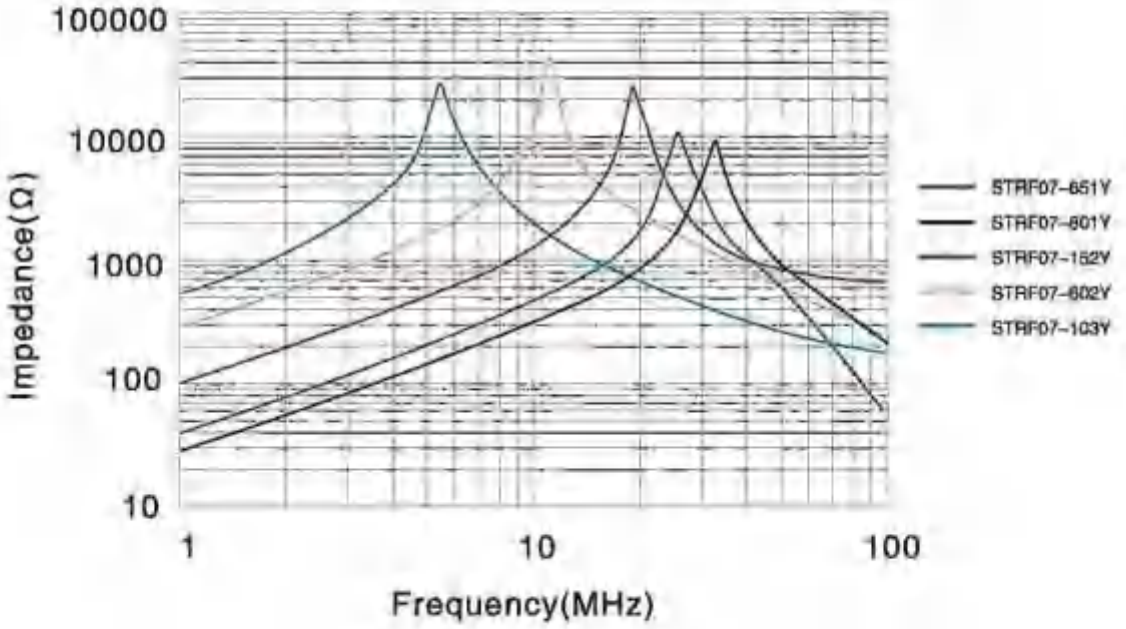
Soldering ..... 245℃, 5 seconds max

Dielectric Strength ..... 1000 Vrms between windings

IMPEDANCE COMMON MODE



IMPEDANCE DIFFERENTIAL MODE



SMT COMMON MODE CHOKES

STRF16 SERIES

FEATURES:

- Common mode chokes for AC power lines
- High impedance to minimize common mode noise
- Excellent EMI prformance
- Meets UL94V-0 flammability standard

APPLICATIONS:

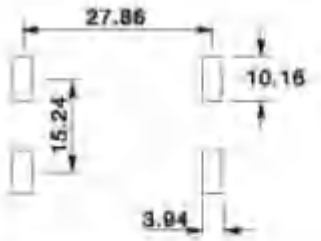
- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) ± 35% 100KHz,0.1V	IDC (A)Max	DCR (mΩ)Max	Hi-Pot 1mA/2S/60Hz (Vac)
STRF016□-131Y	135	26	3.5	1000
STRF016□-221Y	225	20	6.0	1000
STRF016□-471Y	470	14	8.0	1000
STRF016□-631Y	630	11.6	10	1000
STRF016□-821Y	820	7.0	15	1000

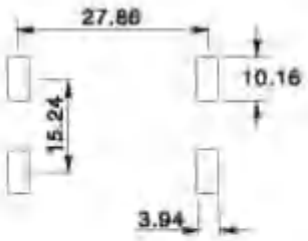
PHYSICAL CHARACTERISTICS & WINDING

STRF016A



Suggested pad layout

STRF016B



Suggested pad layout

NOTES:

Temperature Rise ..... 40℃ typical at IDC

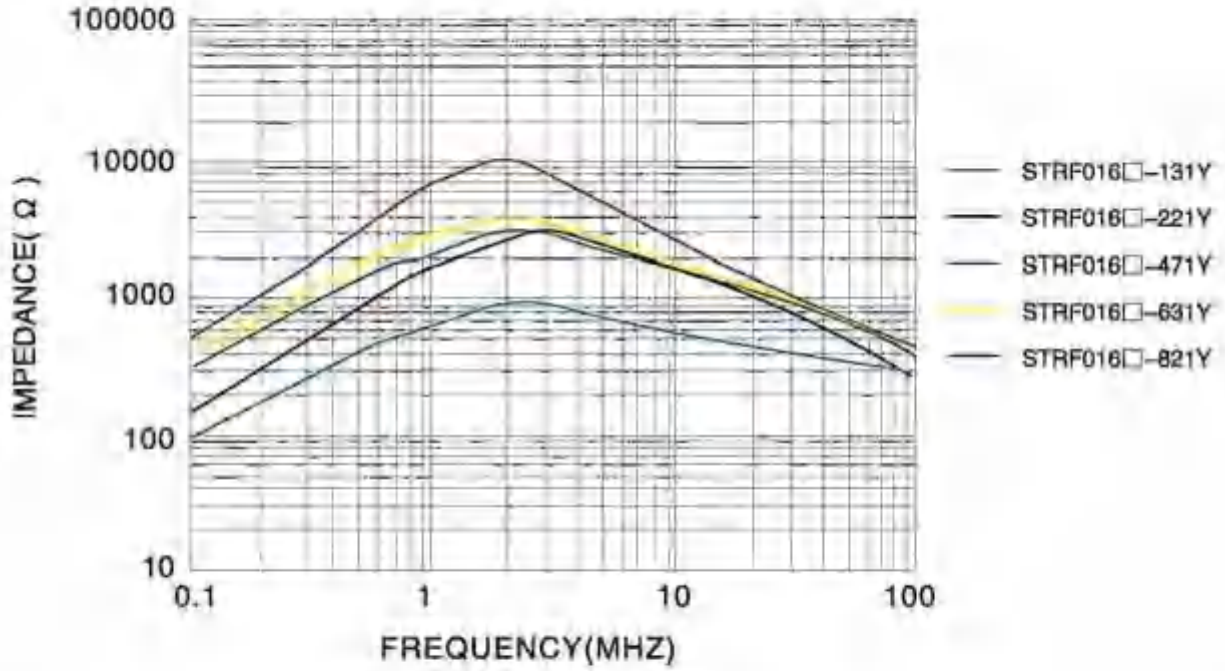
Operating Temperature ..... -40℃ to +125℃(including self temperature rise)

Storage Temperature ..... -40℃ to +125℃

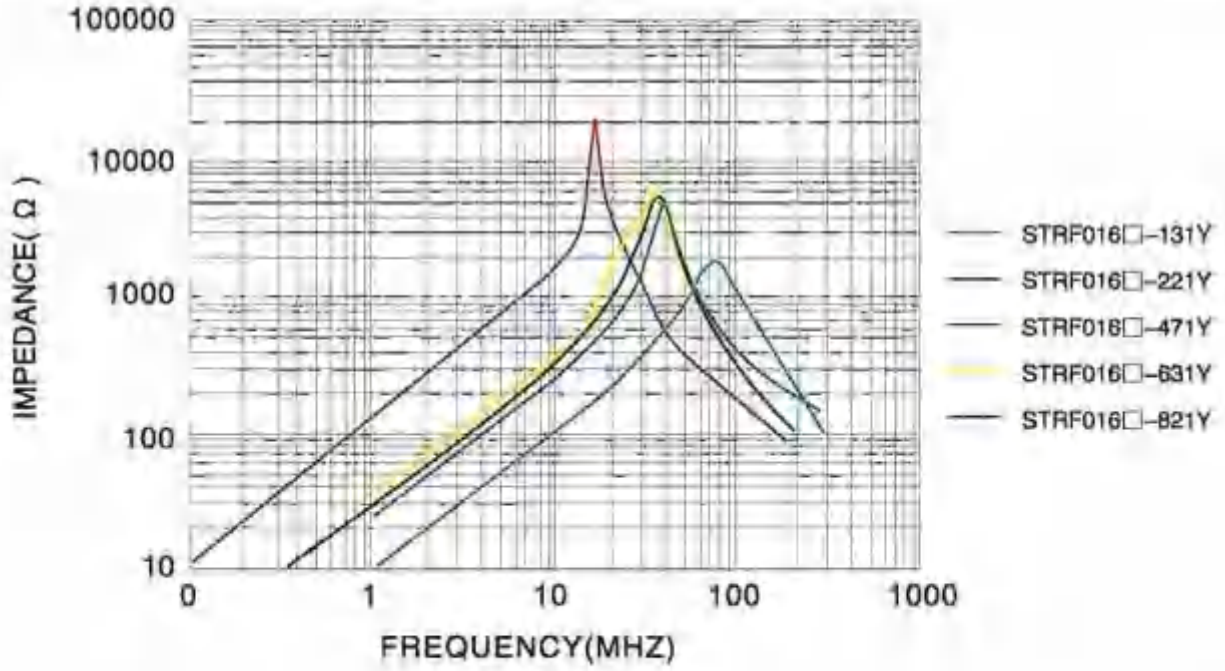
Soldering ..... 245℃, 5 seconds max

Dielectric Strength ..... 1000 Vrms between windings

IMPEDANCE COMMON MODE



IMPEDANCE DIFFERENTIAL MODE



WIRE–WOUND SMT POWER COMMON–MODE CHOKES

STRF2210 SERIES

FEATURES:

- Small size with high current
- Stable performance under load bias and high reliability
- High suppression of asymmetric interferences at both low and high frequency
- SMT Type with less height

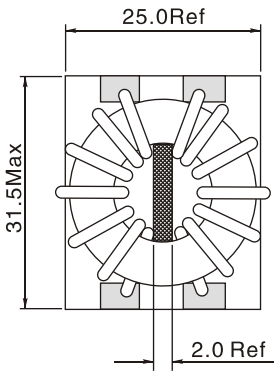
APPLCATIONS:

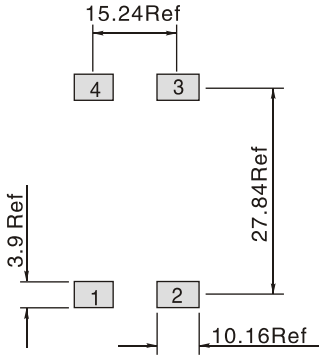
- Interferences suppression of common mode noise
- Power line filter
- Switch–mode power supplies

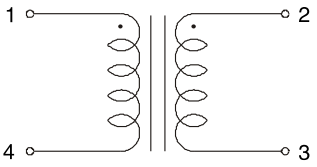
ELECTRICAL CHARACTERISTICS:

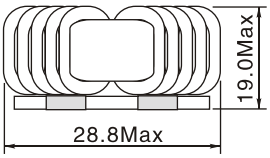
Part Number	Inductance (uH) +35%/–40%	Turns ratio 20KHz,1V N1:N2	DCR (mΩ) Max	Rated Current (A) Max	Hi–Pot 60Hz,10mA,2S (V)
STRF2210–680Y	68	1:1	0.56	50	1500
STRF2210–181Y	180	1:1	1.35	32	1500
STRF2210–321Y	320	1:1	2.5	28	1500
STRF2210–621Y	620	1:1	3.5	20	1500
STRF2210–801Y	800	1:1	5.3	16	1500
STRF2210–132Y	1300	1:1	10	11	1500
STRF2210–182Y	1800	1:1	14	9	1500

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:









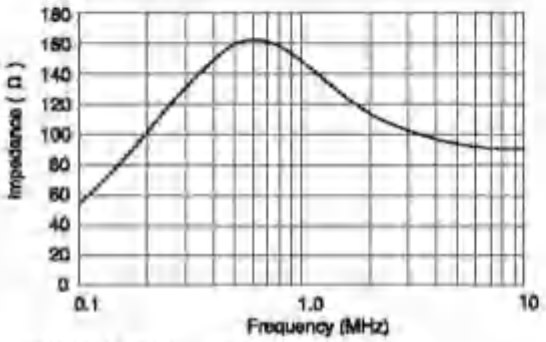
- Inductance Testing: 100KHz,0.1V
- Operating temperature: –40℃ to +125℃(Including self temperature rise)
- Storage Temperature: –40℃ to +125℃
- Resistance to soldering heat: 260℃ for 10 seconds

Note:All specifications subject to change without notice.

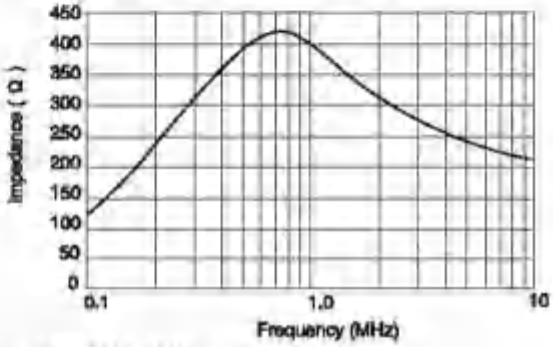
WIRE-WOUND SMT POWER COMMON-MODE CHOKES
STRF2210 SERIES

IMPEDANCE vs FREQUENCY:

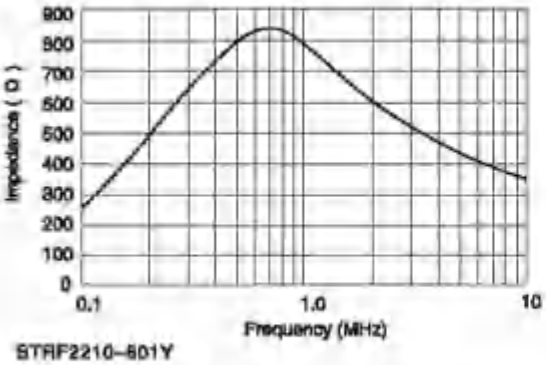
STRF2210-680Y



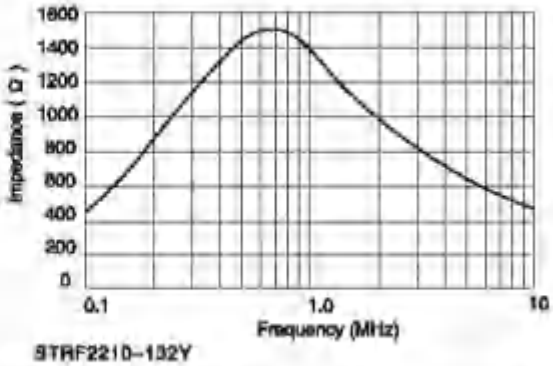
STRF2210-181Y



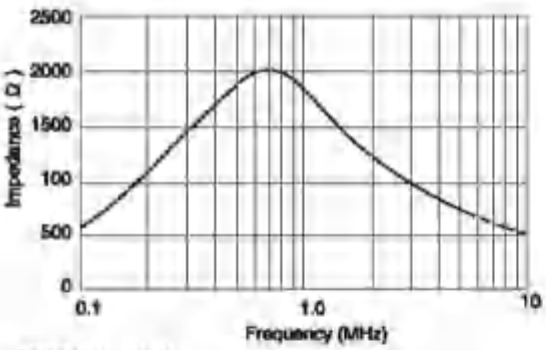
STRF2210-821Y



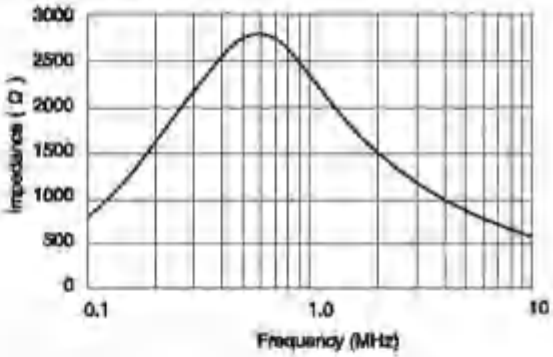
STRF2210-621Y



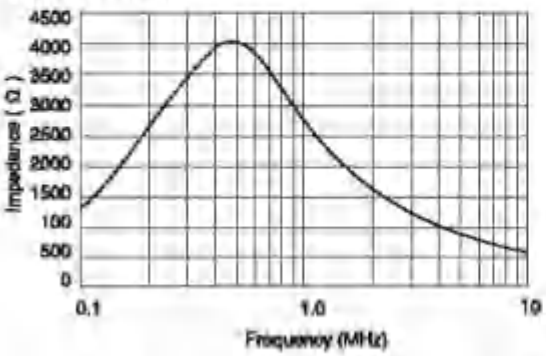
STRF2210-601Y



STRF2210-132Y



STRF2210-182Y



COMMON MODE POWER LINE CHOKE

TRF1005VT SEIRES

FEATURES:

- Very high permeability nanocrystalline core material
- Improved isolation through plastic case and winding spacer
- High and stable inductance values at high temperatures
- High rated currents
- Broadband suppression
- Small size

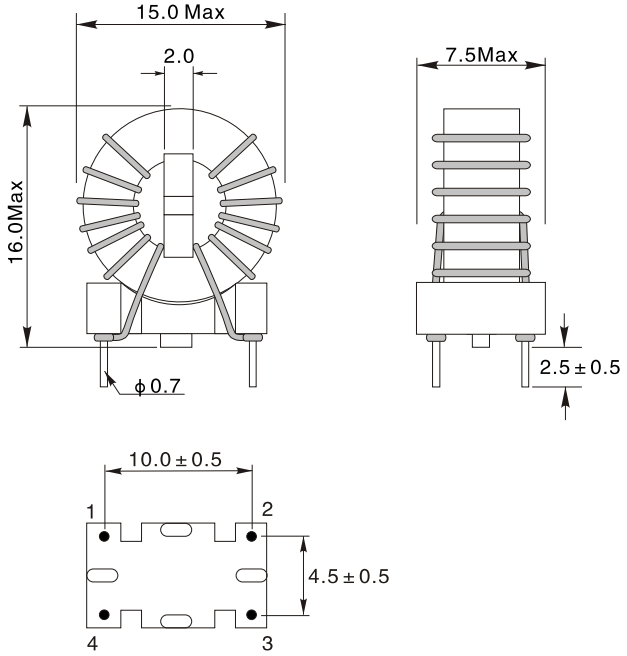
APPLICATIONS:

- Power electronics
- Power line in– and output filter
- Suppression for common mode noise
- Radio interference suppression in motors

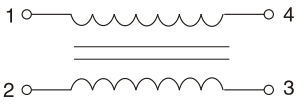
ELECTRICAL CHARACTERISTICS:

Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF1005VT–401Y	0.4	–30 to +50	4.5	22
TRF1005VT–501Y	0.5		3.5	33
TRF1005VT–102Y	1.0		2.5	55
TRF1005VT–162Y	1.6		2.0	90
TRF1005VT–502Y	5.0		1.3	200
TRF1005VT–802Y	8.0		1.0	330
TRF1005VT–113Y	11.0		0.9	430

PHYSICAL CHARACTERISTICS:



WINDING:



Notes:

Rated voltage.....250Vac

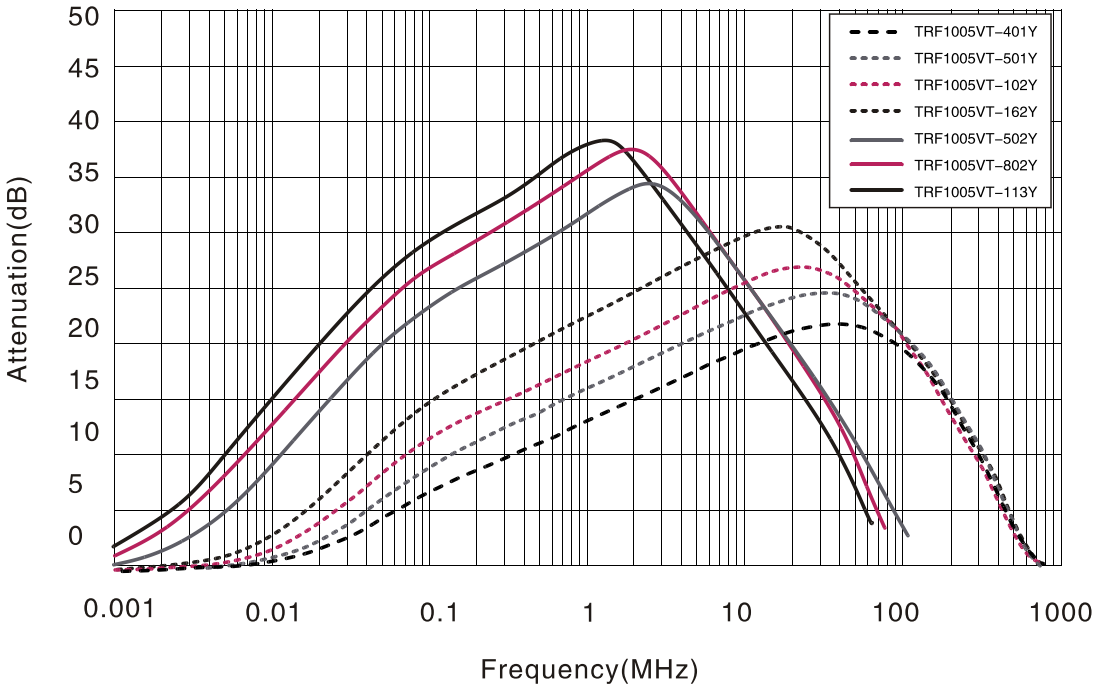
Frequency.....50/60Hz

Insulation test voltage..... 1500V

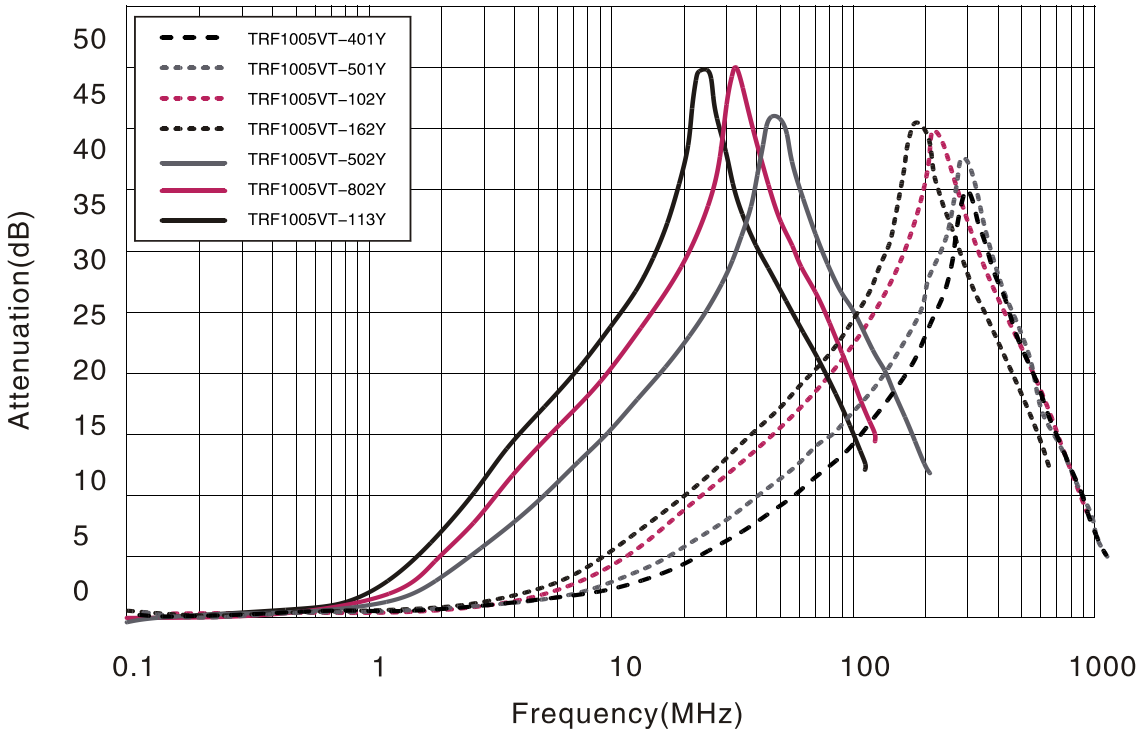
Operating temperature.....–40 ℃ to +125 ℃

Housing..... UL94 V–0

INSERTION LOSS COMMON MODE



INSERTION LOSS DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF101 SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLICATIONS:

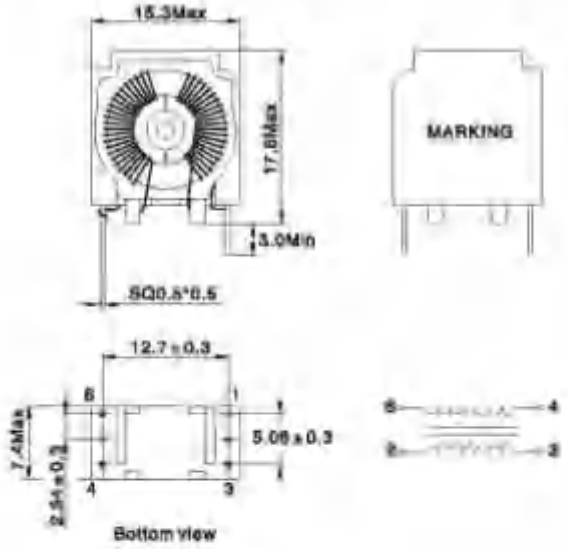
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

ELECTRICAL CHARACTERISTICS:

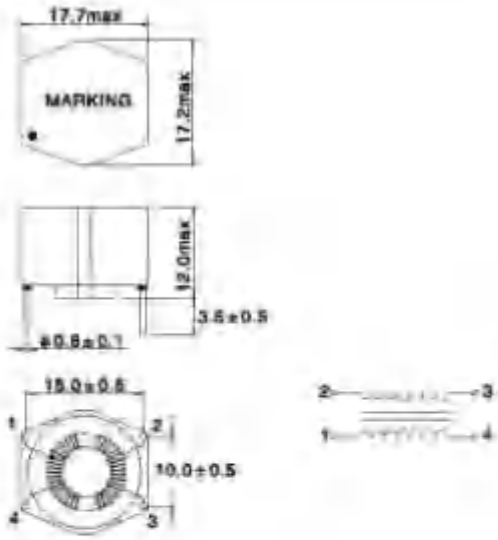
Part Number	L (mH)+50%/-30% 10KHz,0.1V	Leakage inductance (uH)Typ	Rated Current (A)	RDC (mΩ)max.
TRF101H/V-473Y	47	600	0.25	2400
TRF101H/V-303Y	30	500	0.3	2200
TRF101H/V-223Y	22	400	0.35	1900
TRF101H/V-153Y	15	250	0.4	1350
TRF101H/V-103Y	10	170	0.5	1000
TRF101H/V-682Y	6.8	120	0.6	630
TRF101H/V-472Y	4.7	75	0.7	440
TRF101H/V-472YC	4.7	55	0.9	250

PHYSICAL CHARACTERISTICS:

V=Vertical



H=Horizontal



Notes:

Rated voltage.....250Vac

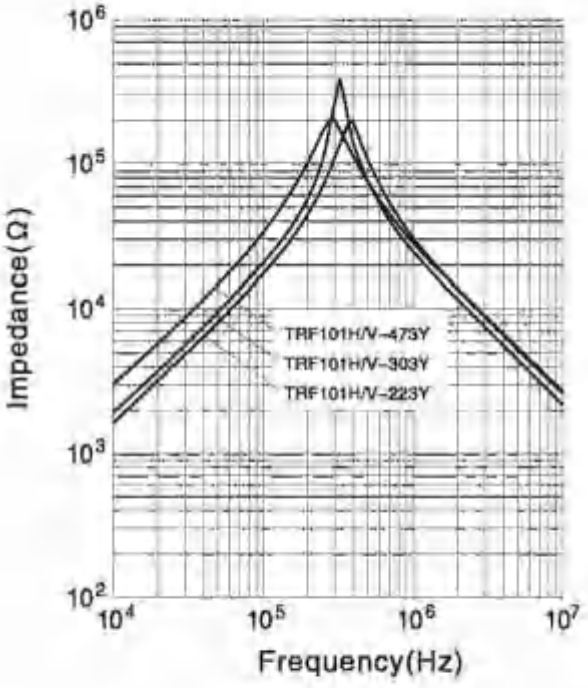
Frequency.....50/60Hz

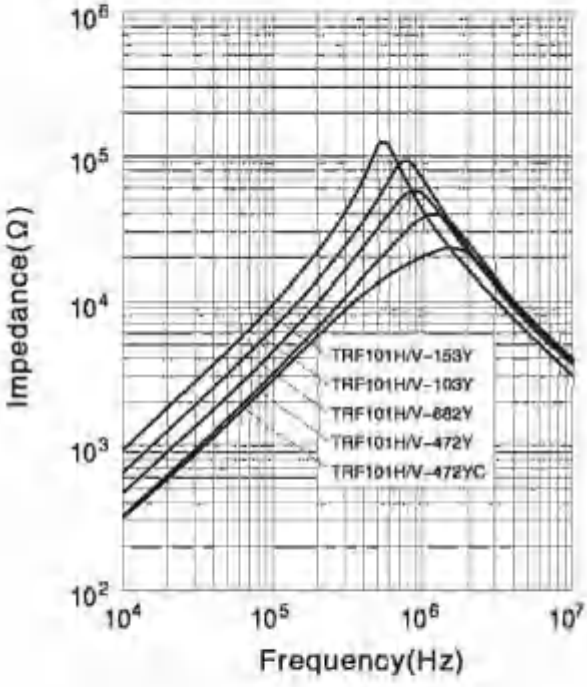
Insulation test voltage.....1500V

Operating temperature.....-25 ℃ to +105 ℃ (including self temperature rise)

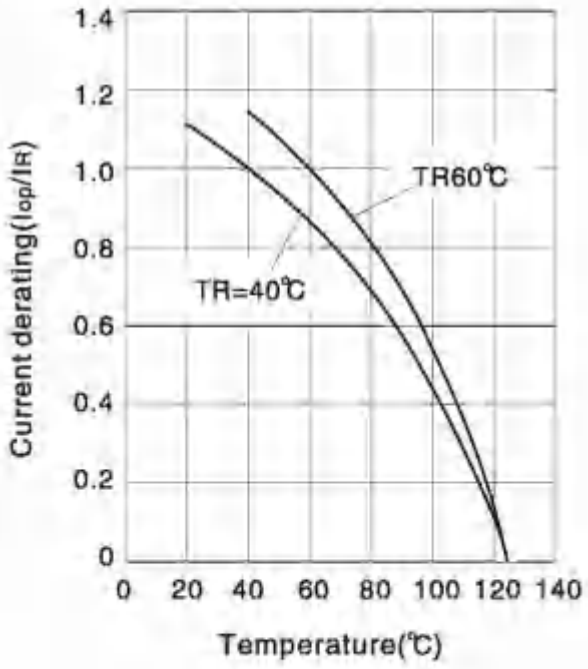
Housing.....UL94 V-0

Impedance |Z| versus frequency F
measured with windings in parallel at +20 ℃ typical values





Current derating Versus temperature



THROUGH-HOLE CURRENT-COMPENSATED CHOKES

TRF110 SERIES

FEATURES:

- 0.2A to 2A ratings
- 1.1mH to 68mH dual chokes
- Excellent Mechanical Strength
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

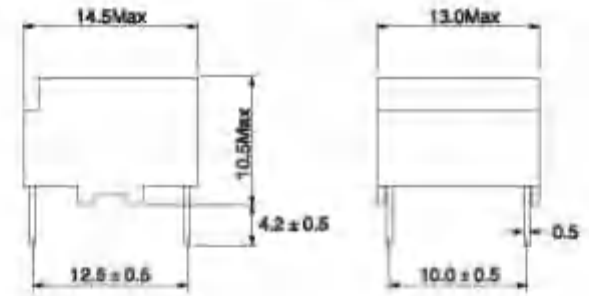
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

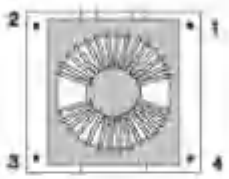
ELECTRICAL CHARACTERISTICS@25℃

Part Number	Inductance (mH) Min	DCR (mΩ)Max	IDC (A)Max
TRF110-112Y	1.1	65	2.0
TRF110-162Y	1.6	110	1.5
TRF110-302Y	3.0	220	1.0
TRF110-442Y	4.4	400	0.8
TRF110-123Y	12.0	1100	0.3
TRF110-223Y	22.0	1500	0.3

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)





- Inductance Testing: 1.0KHz 0.1V HP4284A
- Test conditions of Electrical Properties: +25℃, 33% RH if not specified differently
- Temperature Rise 55℃ Max
- It is recommended that the temperature of the component does not exceed +125℃ under worst case conditions
- Operating temperature: -40℃ to +125℃
- Storage Temperature: -20℃℃ to +60℃
- Acceptable customers design custom

COMMON MODE POWER LINE CHOKE

TRF112A SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLICATIONS:

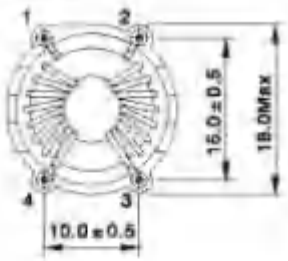
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

ELECTRICAL CHARACTERISTICS:

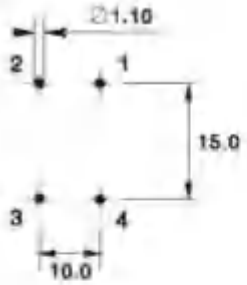
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
TRF112A-701N	0.7	±30	4.0	0.027
TRF112A-102N	1.0		2.0	0.06
TRF112A-222N	2.2		2.0	0.10
TRF112A-332N	3.3		1.5	0.15
TRF112A-682N	6.8		1.0	0.30
TRF112A-103N	10		0.7	0.55
TRF112A-153N	15		0.5	0.83
TRF112A-273N	27		0.4	1.20
TRF112A-393N	39		0.4	1.70

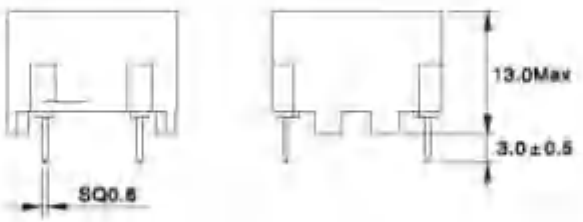
PHYSICAL CHARACTERISTICS:

Dimensions 1

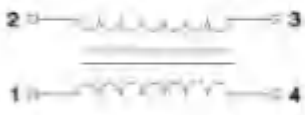


Hole pattern(in mm)





Winding



Notes:

Rated voltage.....250Vac

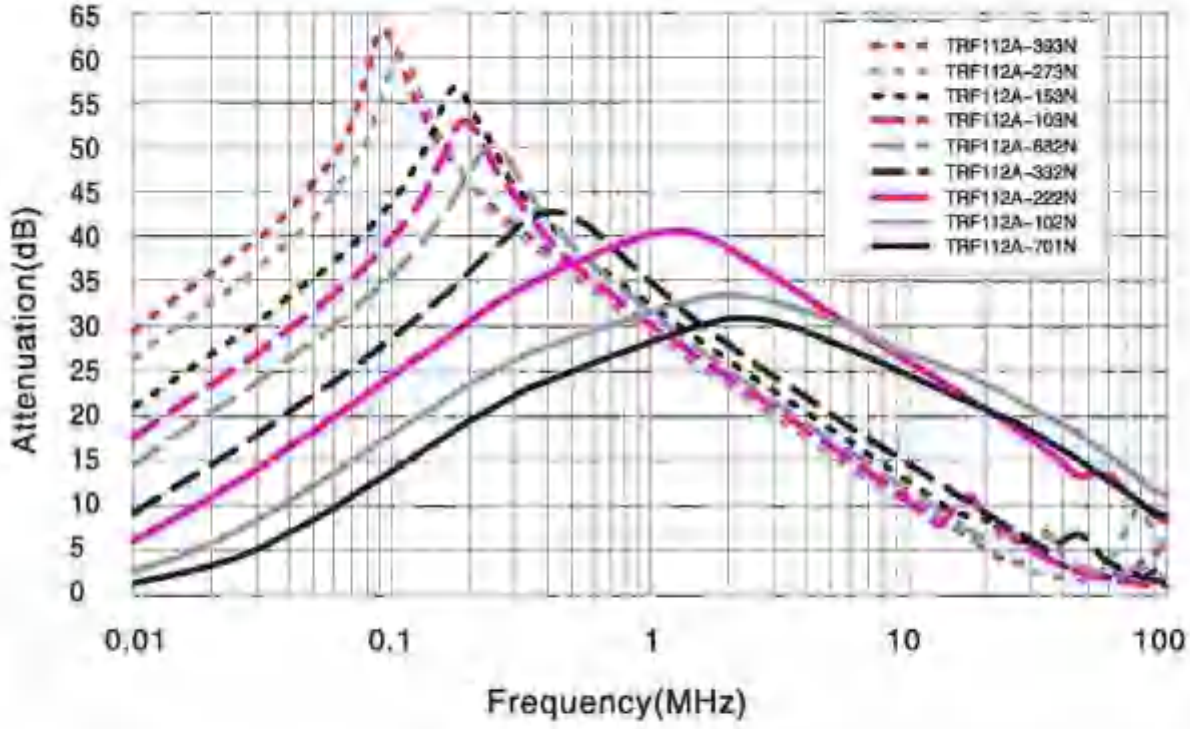
Frequency.....50/60Hz

Insulation test voltage.....1500V

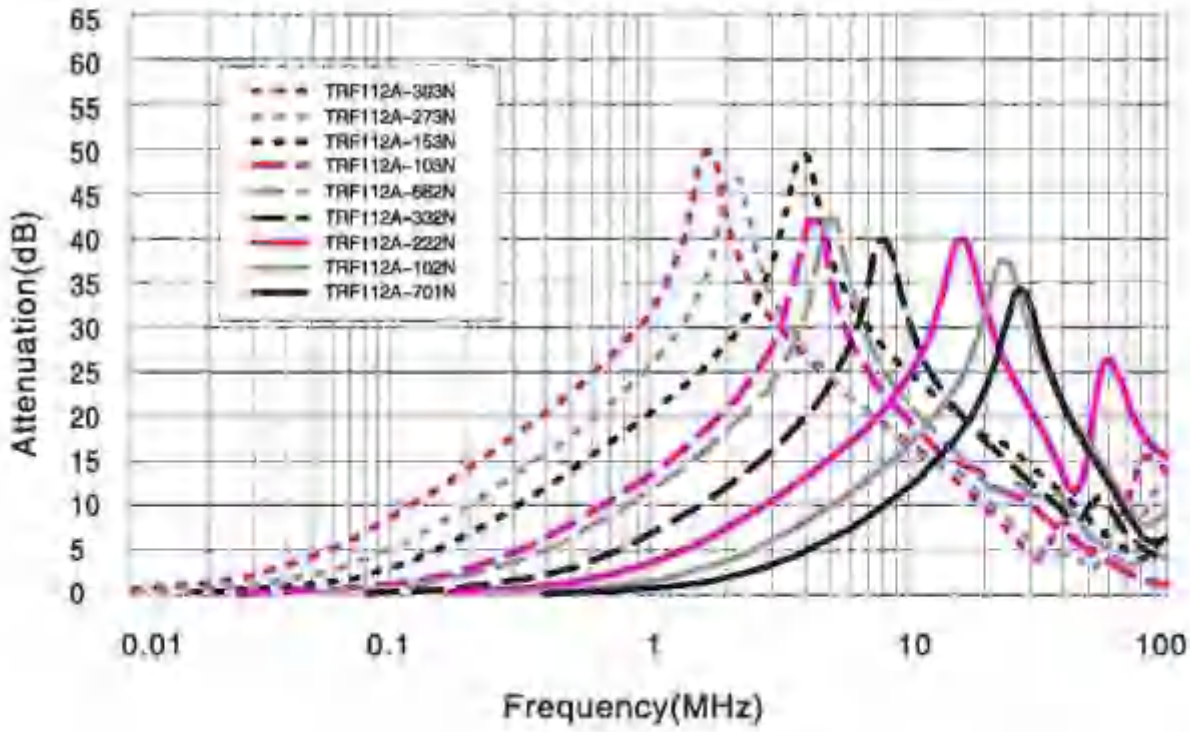
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF114A SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLCIATIONS:

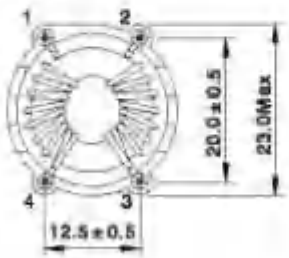
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

ELECTRICAL CHARACTERISTICS:

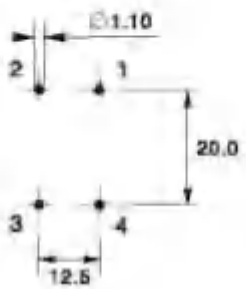
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
TRF114A-122N	1.2	±30	3.0	0.04
TRF114A-222N	2.2		2.0	0.06
TRF114A-422N	4.2		1.9	0.12
TRF114A-682N	6.8		1.5	0.2
TRF114A-103N	10		1.3	0.25
TRF114A-273N	27		0.8	0.7
TRF114A-473N	47		0.4	2.0

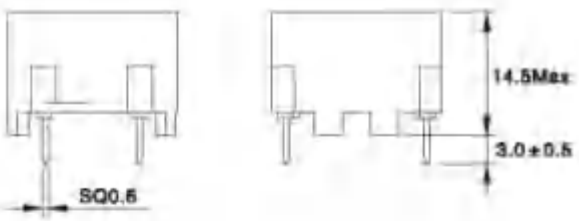
PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern (in mm)





Winding

Notes:

Rated voltage.....250Vac

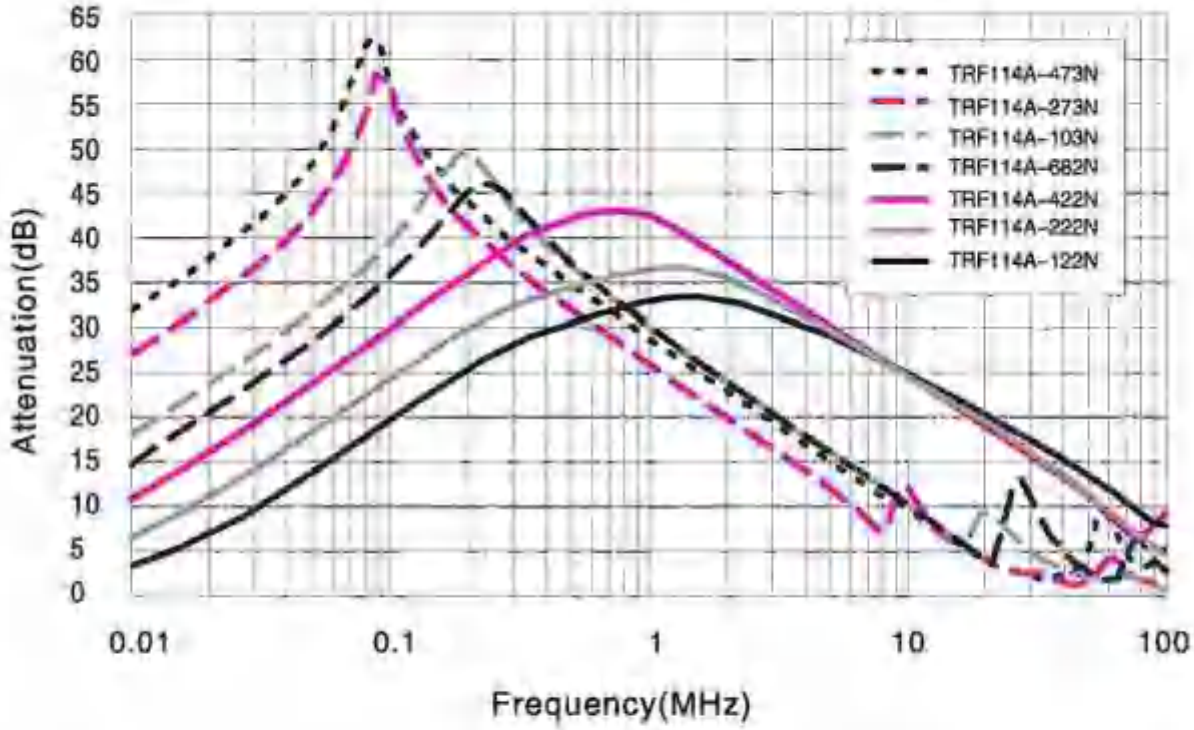
Frequency.....50/60Hz

Insulation test voltage.....1500V

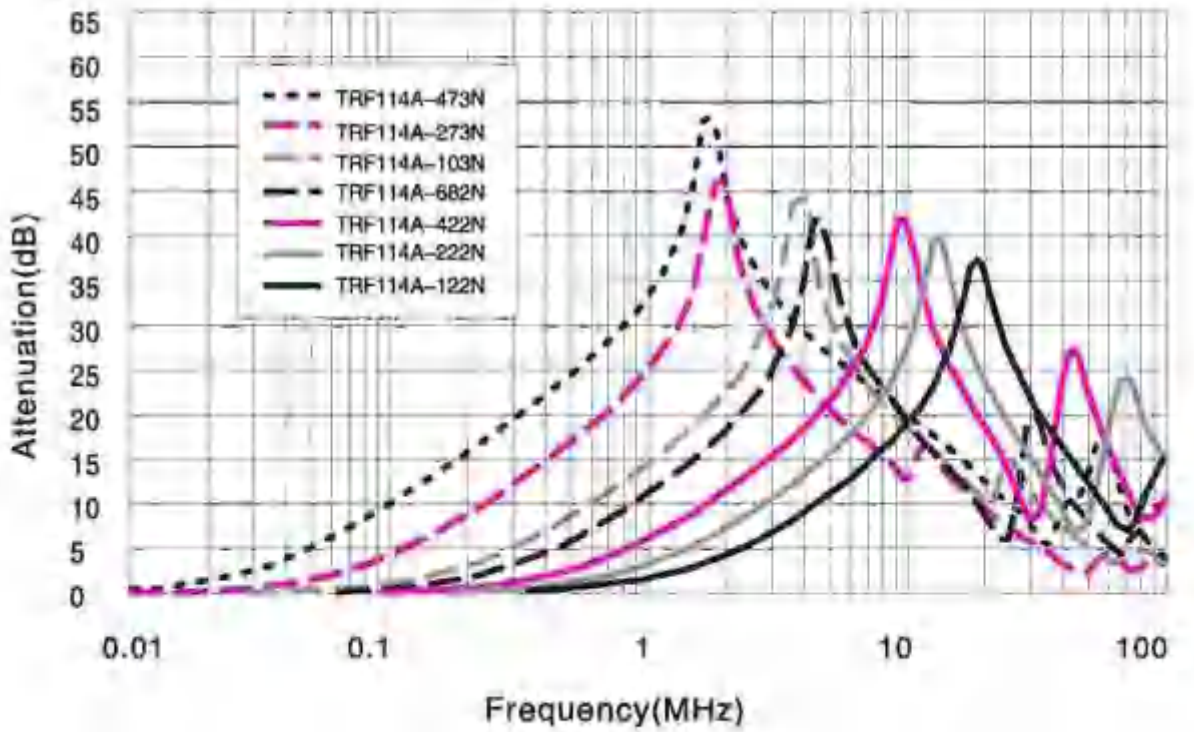
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF1205VT SERIES

FEATURES:

- Core material: Ni-Zn
- High suppression rates of asymmetric interference at high and medium frequencies
- Compact size
- High interference stability against RF interference and burst signals
- Noise suppressionup to 300MHz

APPLICATIONS:

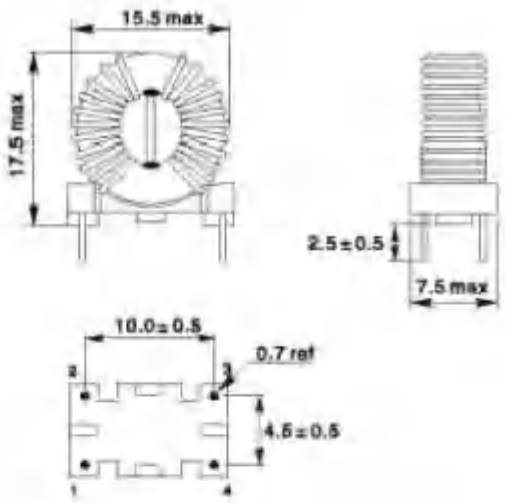
- Power electronics
- Suppression for common mode noise
- Radio interference suppression in motors
- Power line input and output filter

ELECTRICAL CHARACTERISTICS:

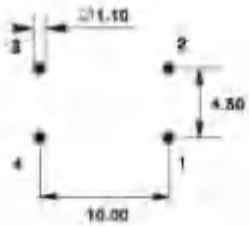
Part Number	L (uH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF1205VT-140N	14	±30	4	15
TRF1205VT-300N	30		3	26
TRF1205VT-470N	47		2	40
TRF1205VT-101N	100		1.5	80

PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern(in mm)



Winding

Notes:

Rated voltage.....250Vac

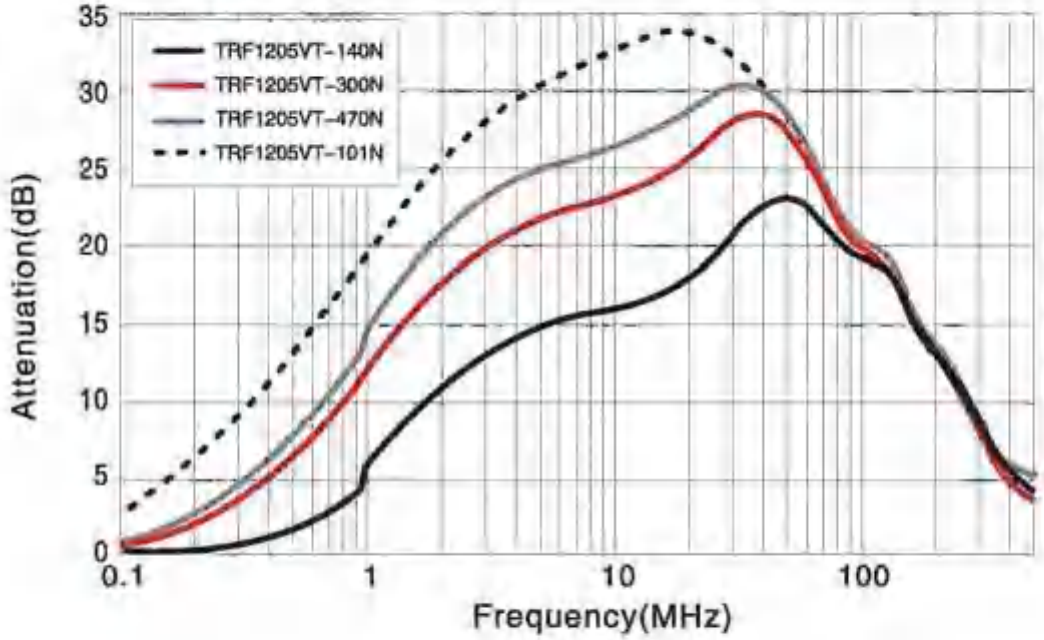
Frequency.....50/60Hz

Insulation test voltage.....1500V

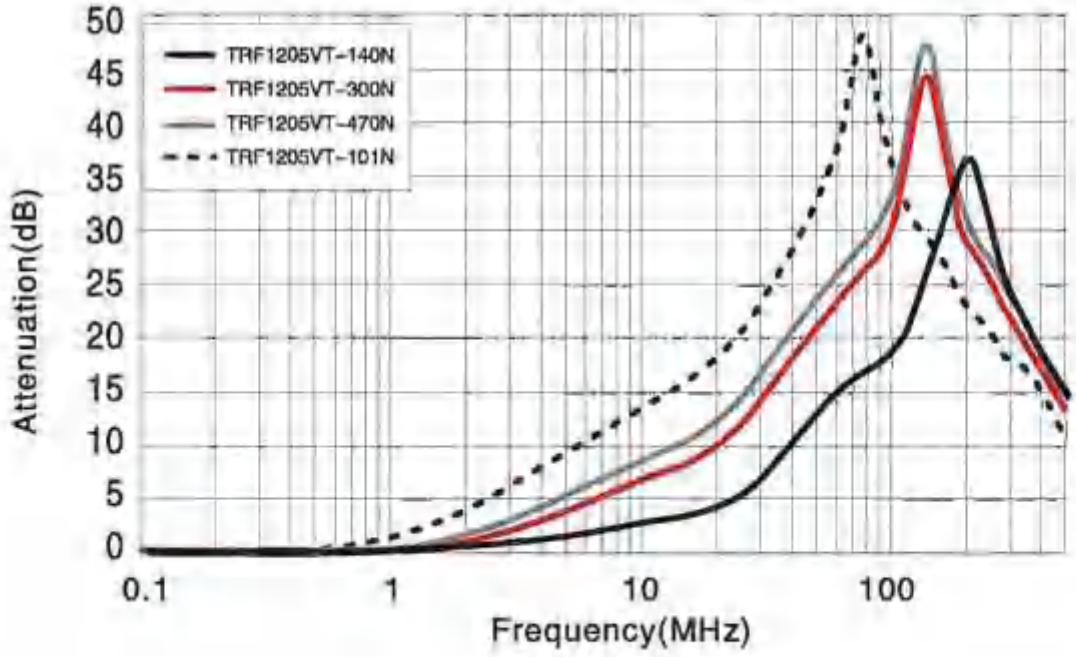
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF1206VT SERIES

FEATURES:

- With this product you can achieve high suppression of asymmetric interferences even at low frequency ranges
- Broadband filtering because of low capacitance winding technique
- Very compact design
- Highest possible current with small sizes
- High interference compression asymmetric interference rates also at low frequence range

APPLICATIONS:

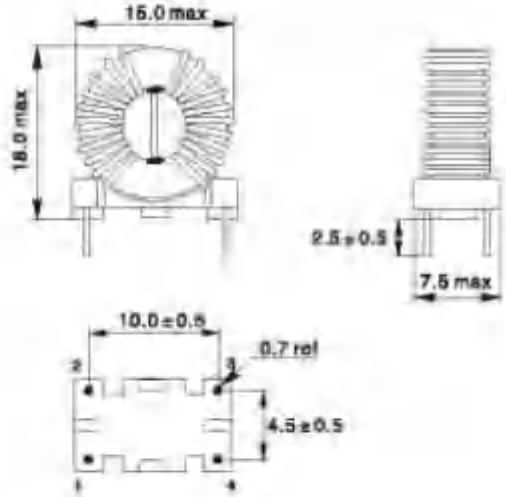
- Power electronics
- Suppression for common mode noise
- Radio interference suppression in motors
- Power line input and output filter

ELECTRICAL CHARACTERISTICS:

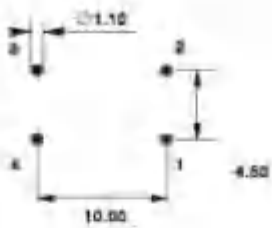
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF1206VT-102N	1	±30	2.0	45
TRF1206VT-402N	4		1.5	140
TRF1206VT-502N	5		1.0	220
TRF1206VT-103N	10		0.7	350
TRF1206VT-203N	20		0.5	1000
TRF1206VT-393N	39		0.3	3000

PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern(in mm)



Winding

Notes:

Rated voltage.....250Vac

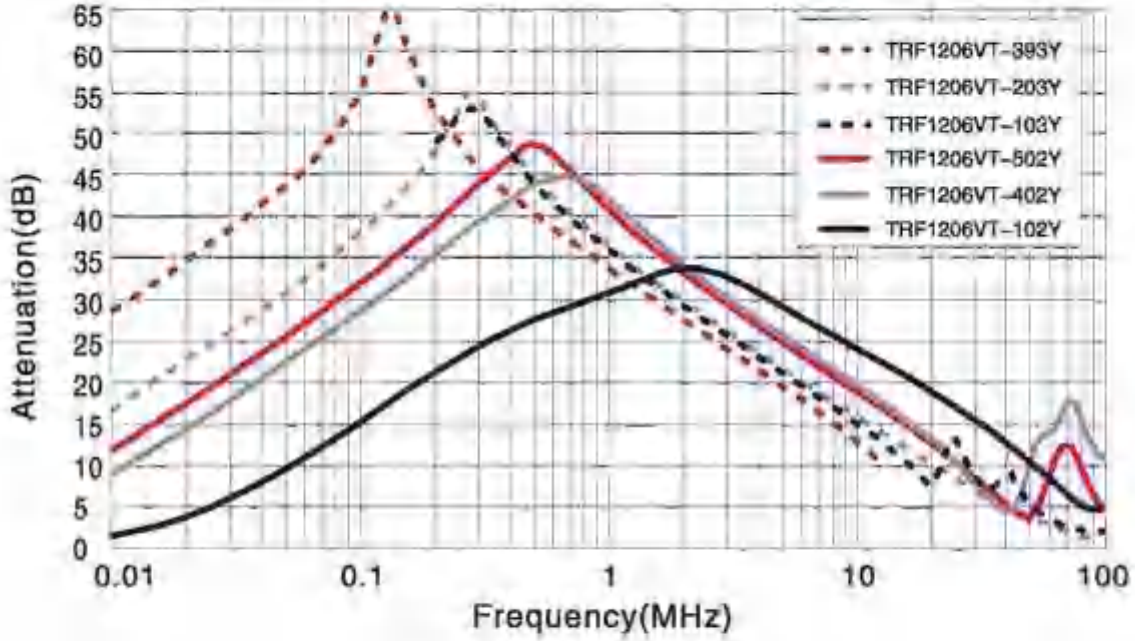
Frequency.....50/60Hz

Insulation test voltage.....1500V

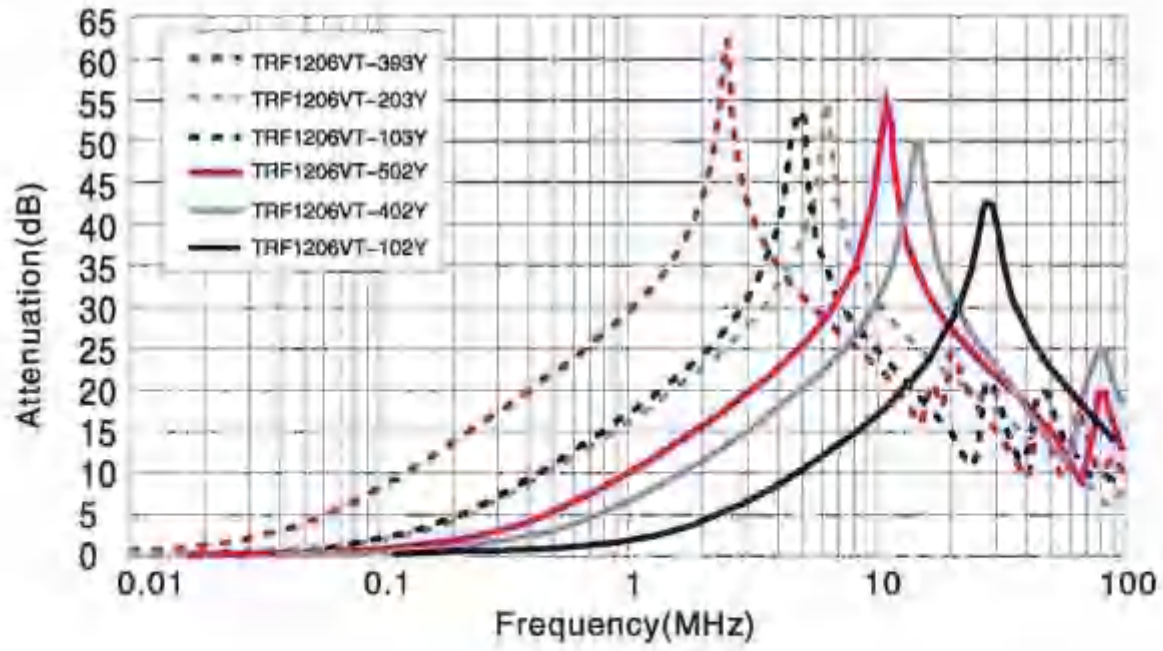
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF122A SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLICATIONS:

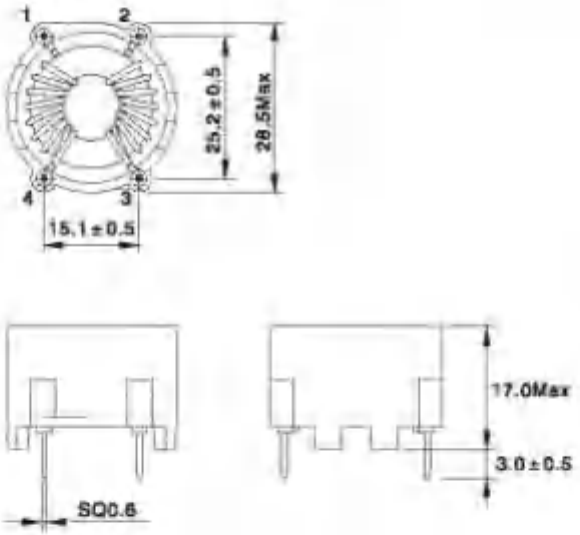
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

ELECTRICAL CHARACTERISTICS:

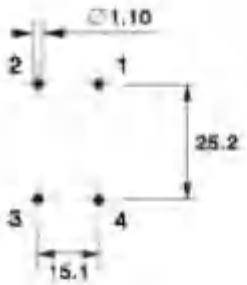
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
TRF122A-272N	2.7	±30	3.0	0.06
TRF122A-562N	5.6		2.0	0.16
TRF122A-562NC	5.6		2.4	0.10
TRF122A-273N	27.0		1.0	0.64

PHYSICAL CHARACTERISTICS:

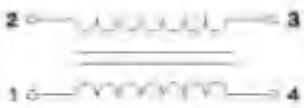
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

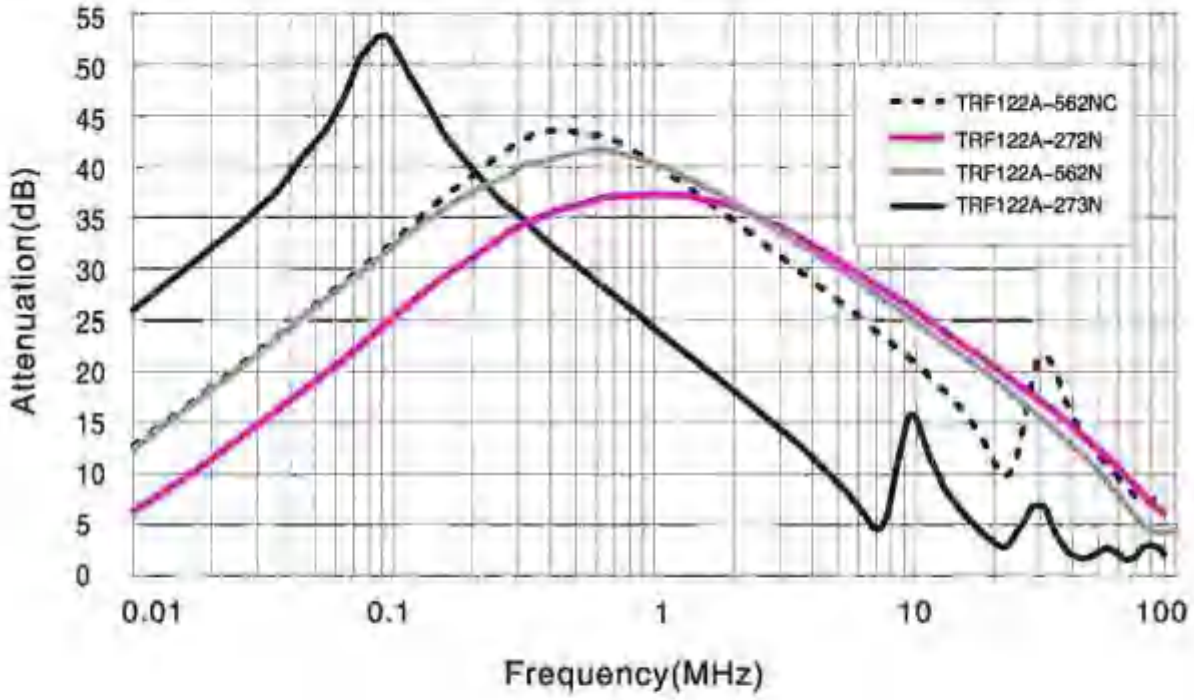
Frequency.....50/60Hz

Insulation test voltage.....1500V

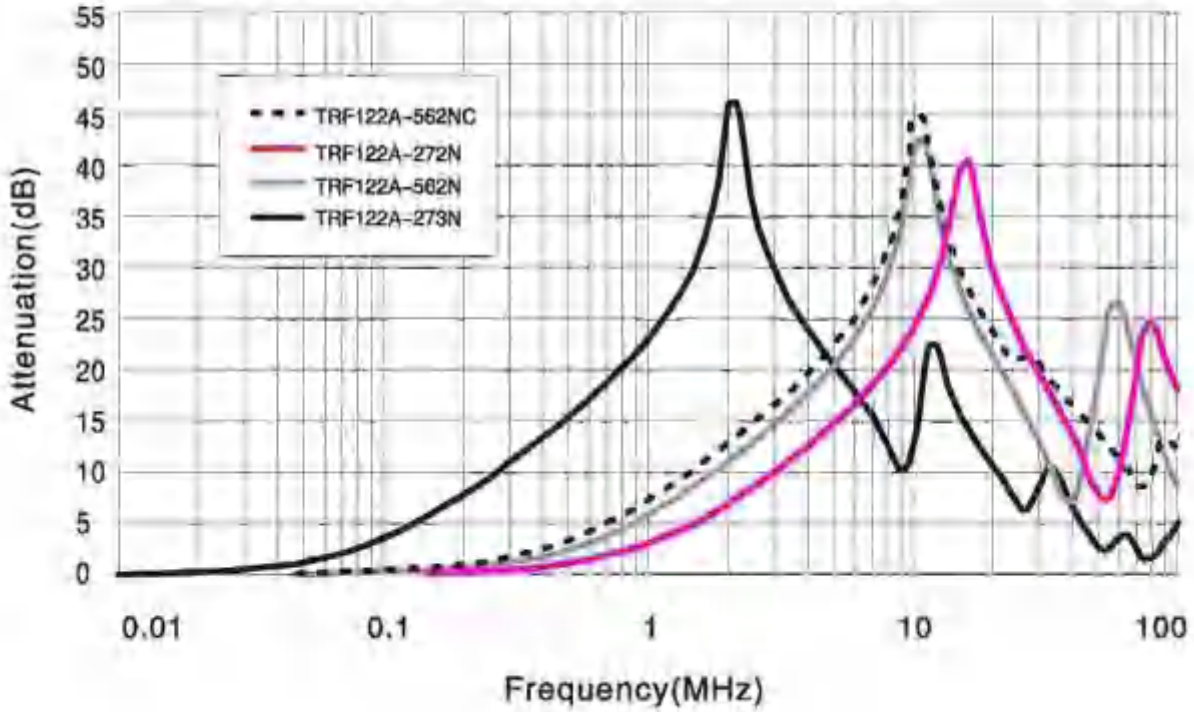
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



HIGH CURRENT COMMON MODE POWER LINE CHOKE

TRF1407VT-HC SERIES

FEATURES:

- With this product you can achieve high suppression of asymmetric interferences even at low frequency ranges
- Broadband filtering because of low capacitance winding technique
- Very compact design
- Highest possible current with small sizes
- High interference compression asymmetric interference rates also at low frequence range

APPLICATIONS:

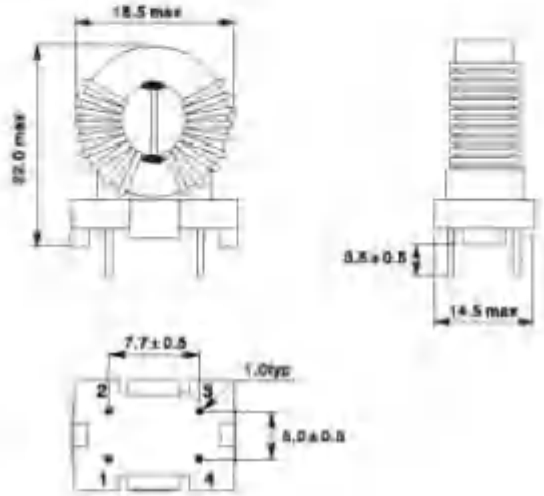
- Power electronics
- Power line input and output filter
- For filtering of devices without a stable ground connection
- Radio interference suppression in motors

ELECTRICAL CHARACTERISTICS:

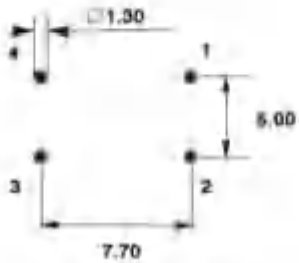
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF1407VT-HC-171N	0.175	± 30	10.0	4.0
TRF1407VT-HC-351N	0.350		8.5	7.0
TRF1407VT-HC-451N	0.450		6.5	10.0
TRF1407VT-HC-701N	0.700		5.0	15.0

PHYSICAL CHARACTERISTICS:

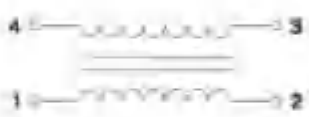
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

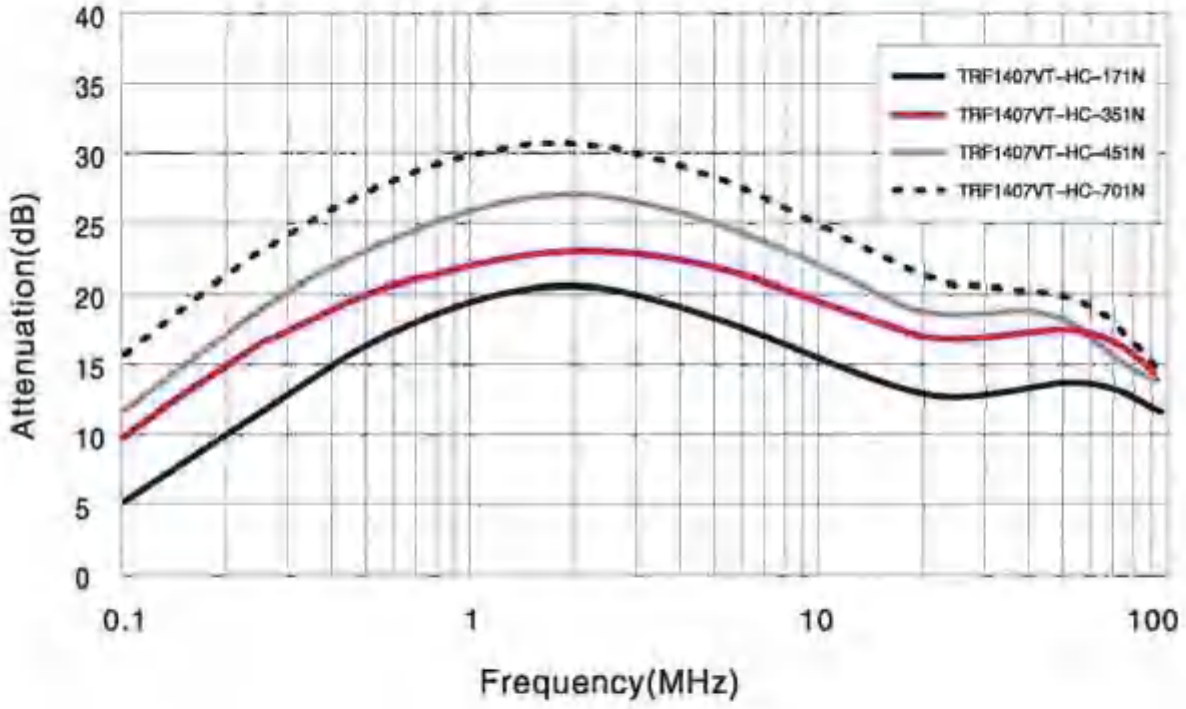
Frequency.....50/60Hz

Insulation test voltage.....1500V

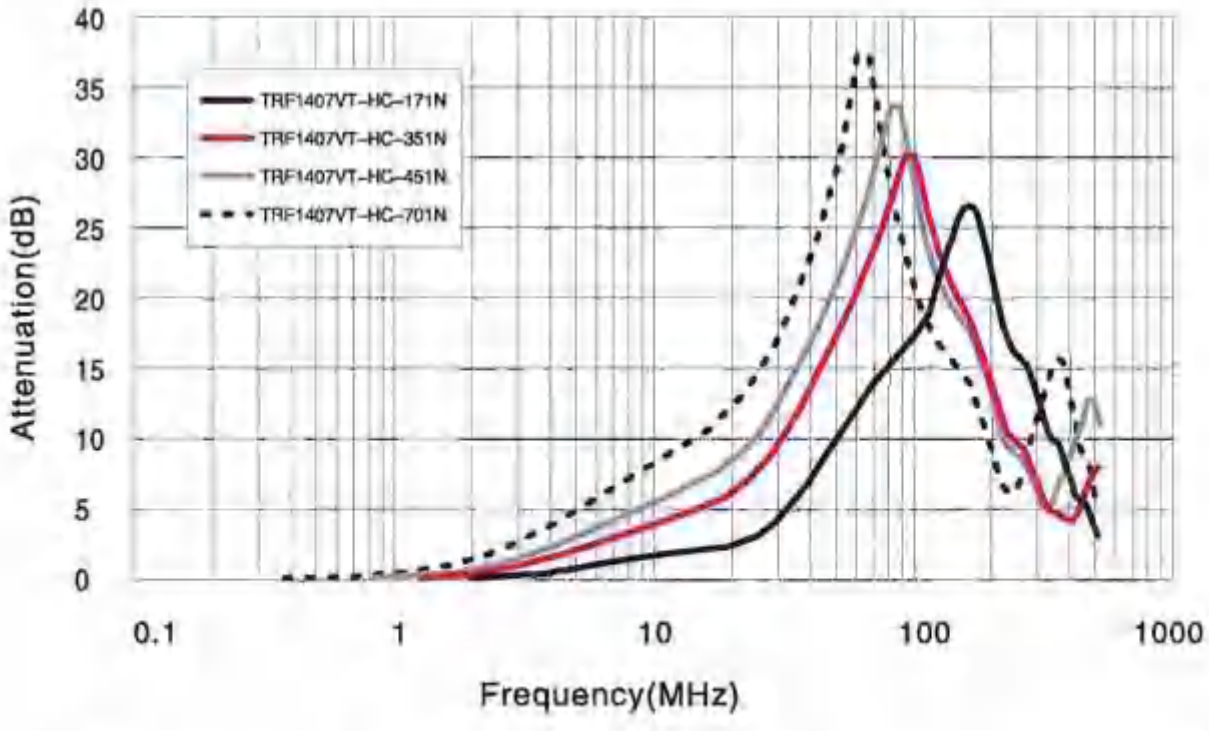
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF1407VT-LC SERIES

FEATURES:

- With this product you can achieve high suppression of asymmetric interferences even at low frequency ranges
- Broadband filtering because of low capacitance winding technique
- Very compact design
- Highest possible current with small sizes
- High interference compression asymmetric interference rates also at low frequence range

APPLICATIONS:

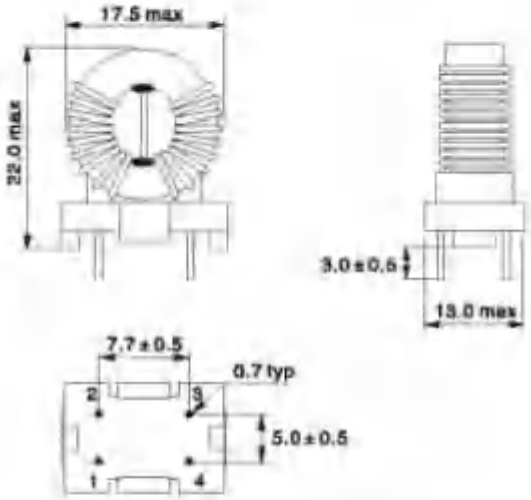
- Power electronics
- Suppression for common mode noise
- Radio interference suppression in motors
- Power line input and output filter

ELECTRICAL CHARACTERISTICS:

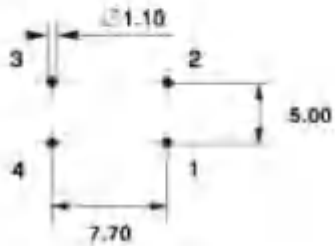
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF1407VT-LC-102N	1.0	±30	3.0	35
TRF1407VT-LC-222N	2.2		2.0	70
TRF1407VT-LC-332N	3.3		1.5	120
TRF1407VT-LC-103N	10.0		1.0	360
TRF1407VT-LC-203N	20.0		0.5	540

PHYSICAL CHARACTERISTICS:

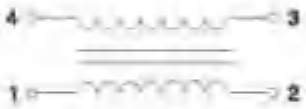
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

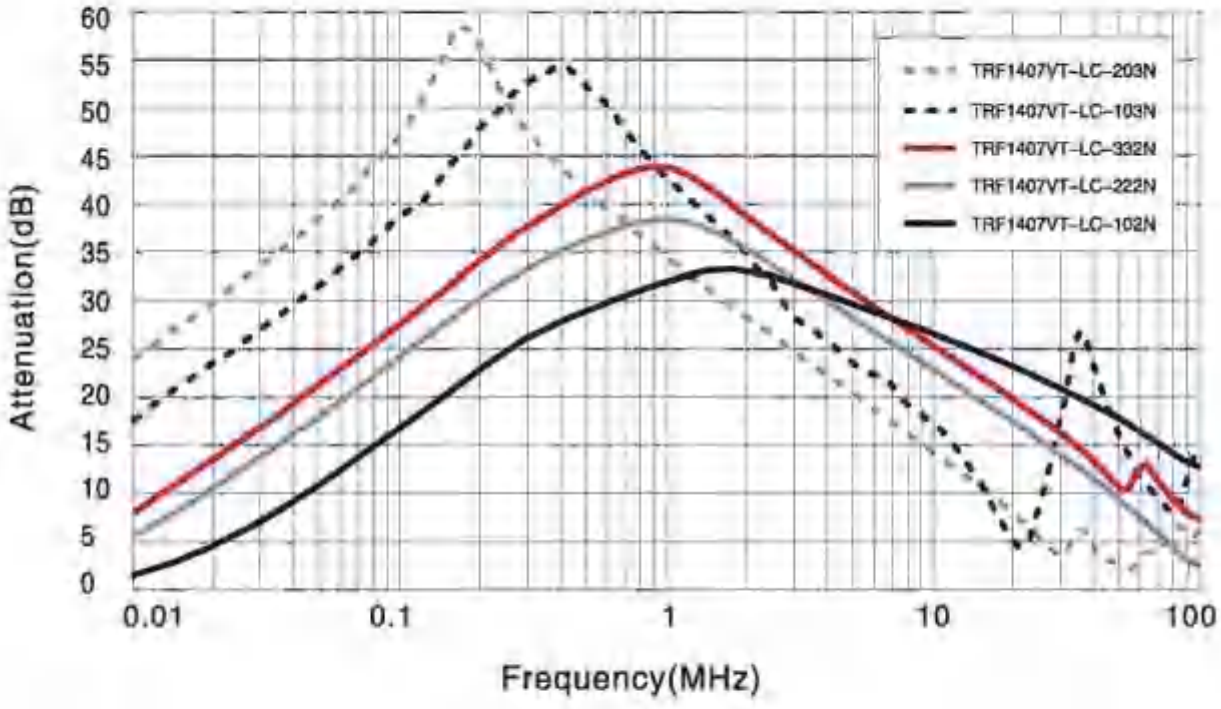
Frequency.....50/60Hz

Insulation test voltage.....1500V

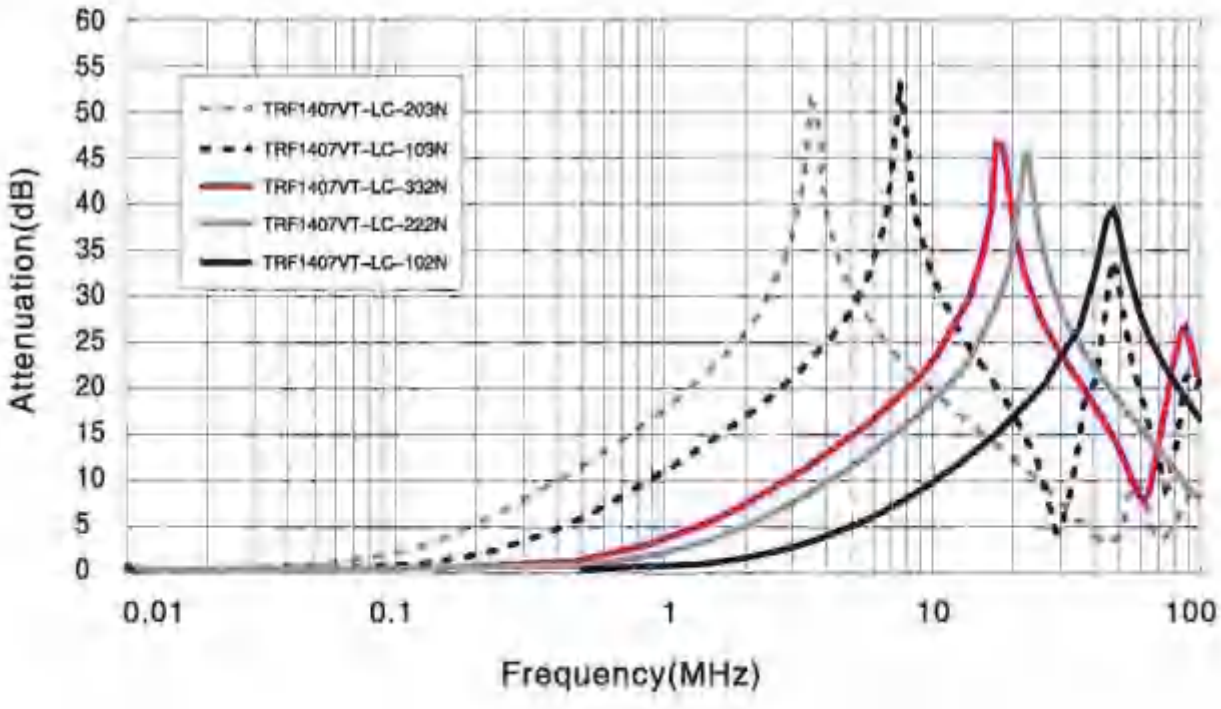
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF1407VT-NZ SERIES

FEATURES:

- Core material: Ni-Zn
- High suppression rates of asymmetric interference at high and medium frequencies
- Compact size
- High interference stability against RF interference and burst signals
- Noise suppressionup to 300MHz

APPLICATIONS:

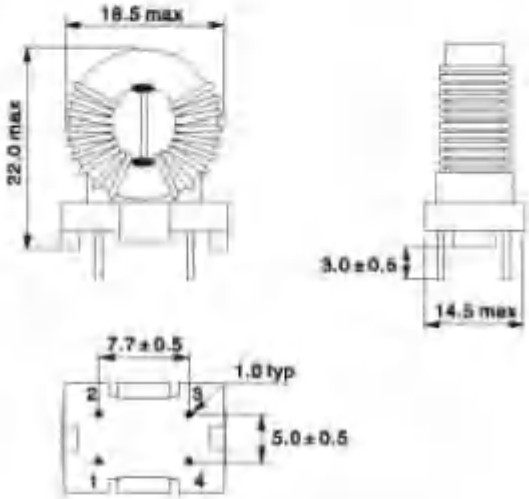
- Power electronics
- Suppression for common mode noise
- Radio interference suppression in motors
- Power line input and output filter

ELECTRICAL CHARACTERISTICS:

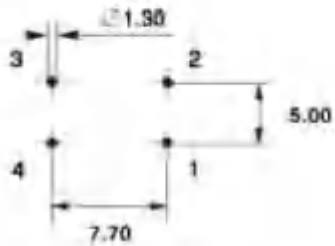
Part Number	L (uH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF1407VT-NZ-160N	16	±30	10.0	2.7
TRF1407VT-NZ-320N	32		8.5	5.5
TRF1407VT-NZ-420N	42		6.5	8.1
TRF1407VT-NZ-650N	65		5.5	13
TRF1407VT-NZ-111N	110		3	31

PHYSICAL CHARACTERISTICS:

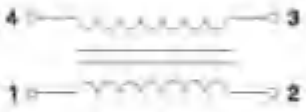
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

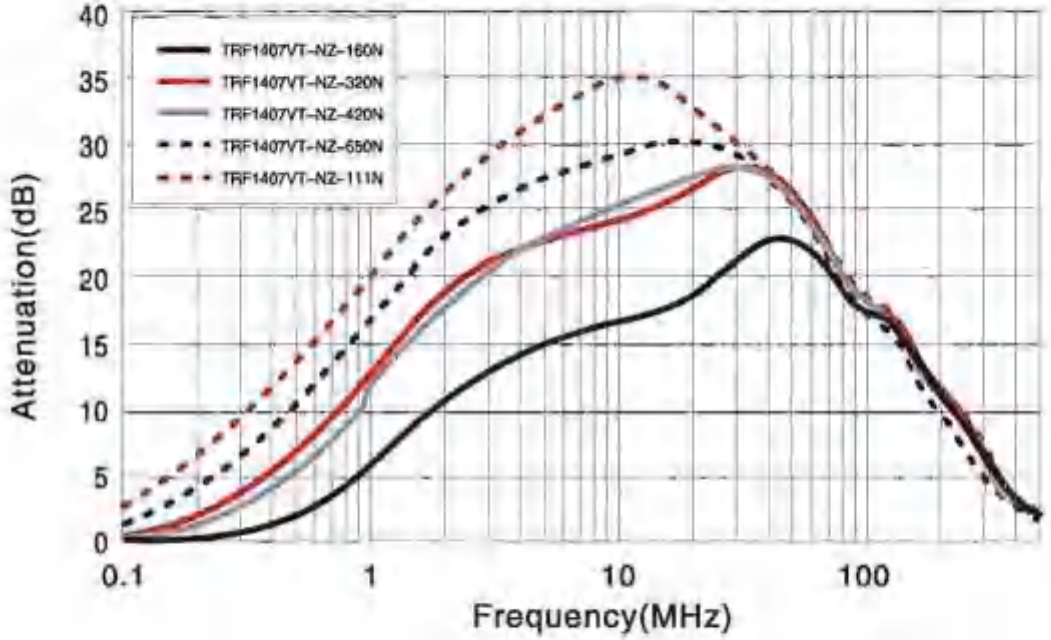
Frequency.....50/60Hz

Insulation test voltage.....1500V

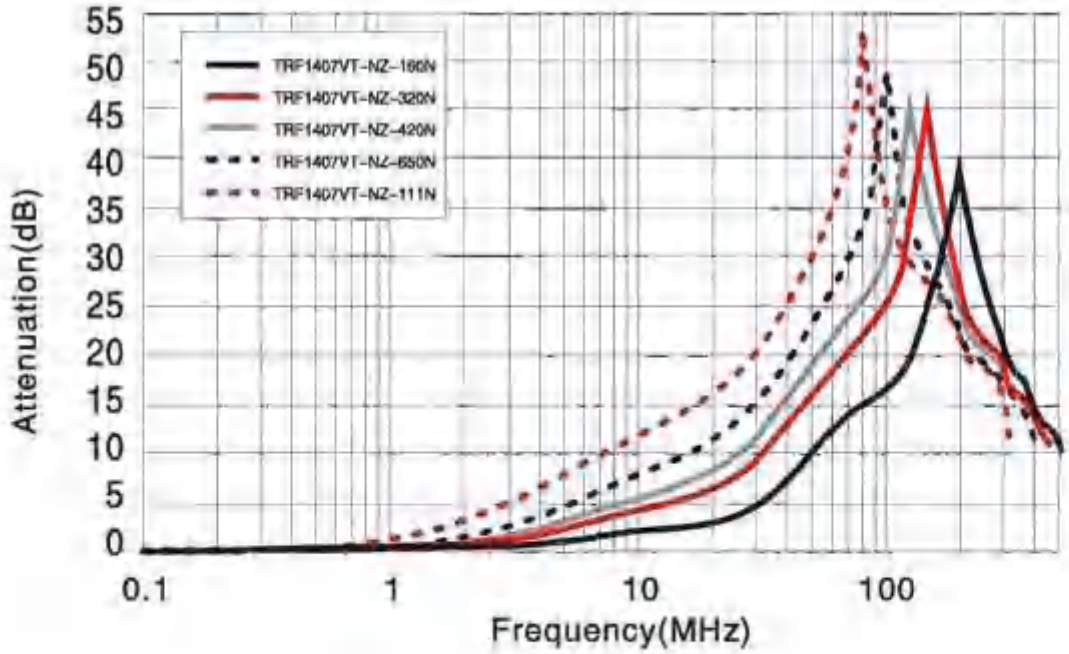
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF142A SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLICATIONS:

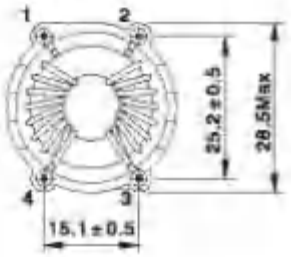
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

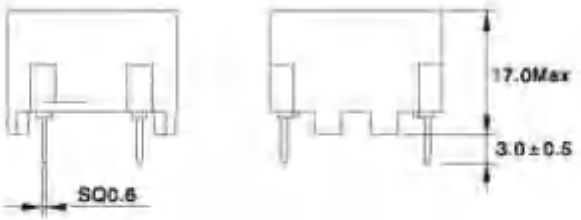
ELECTRICAL CHARACTERISTICS:

Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
TRF142A-182N	1.8	±30	6.0	0.03
TRF142A-332N	3.3		4.0	0.065
TRF142A-103NC	10.0		3.0	0.155
TRF142A-273N	27.0		1.2	0.40

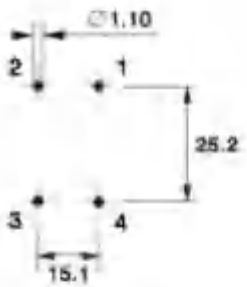
PHYSICAL CHARACTERISTICS:

Dimensions 1

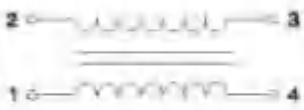




Hole pattern (in mm)



Winding



Notes:

Rated voltage.....250Vac

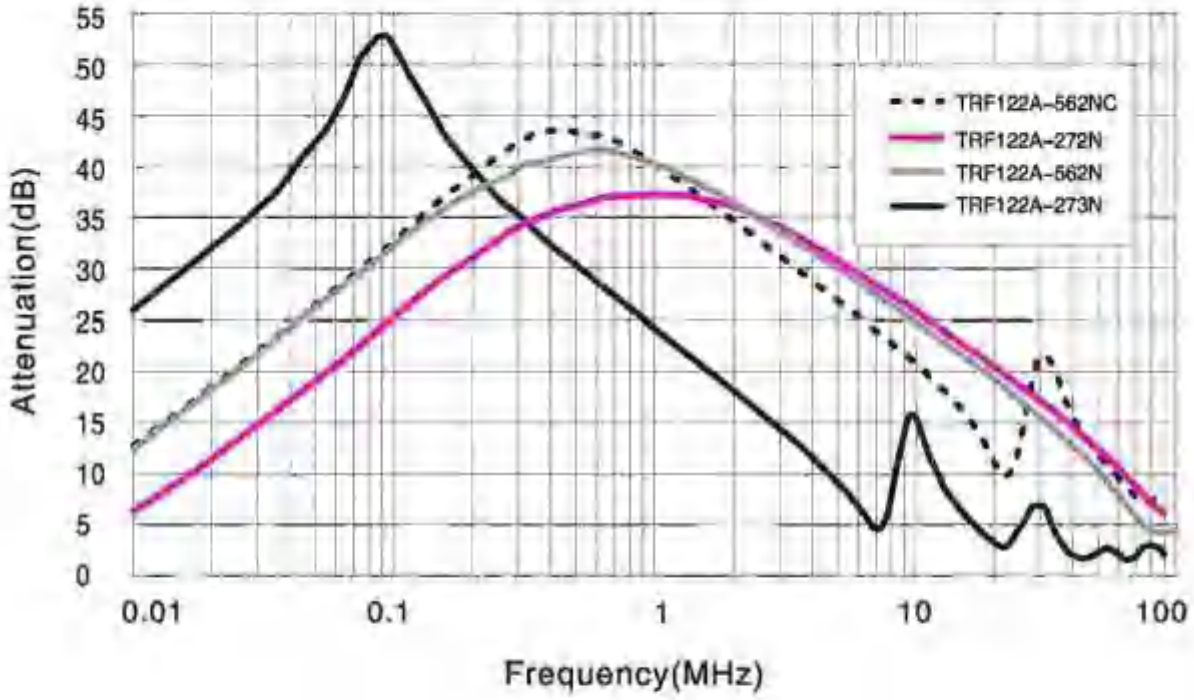
Frequency.....50/60Hz

Insulation test voltage.....1500V

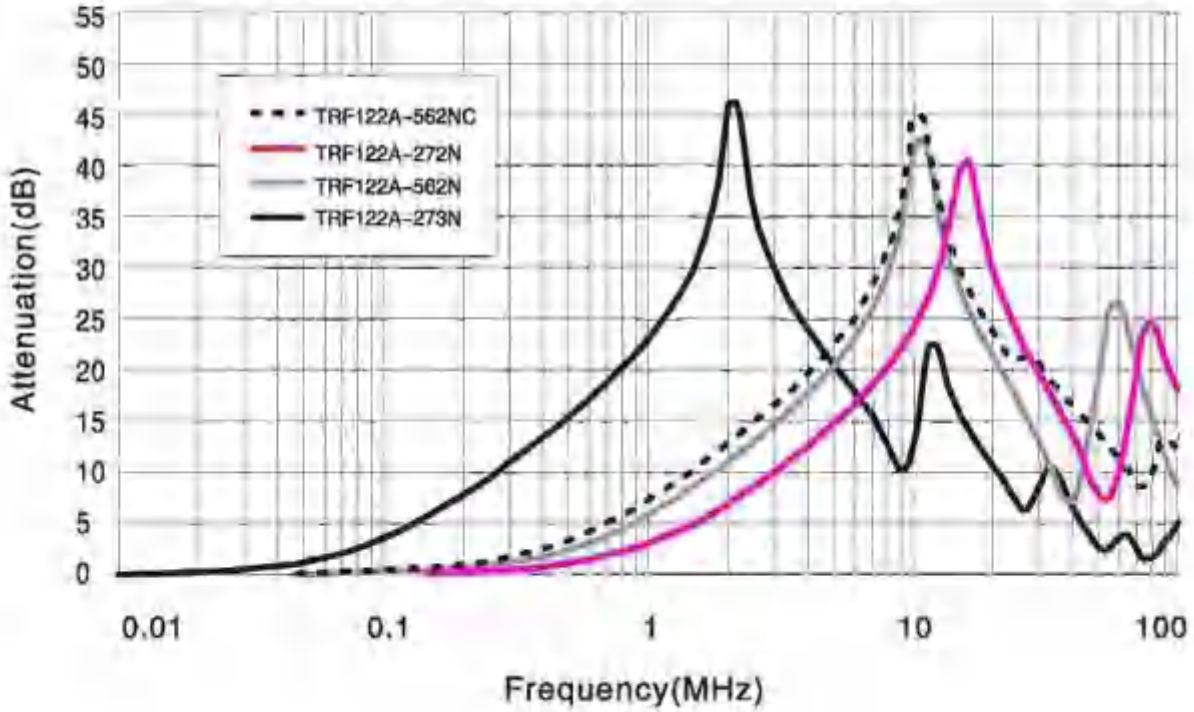
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF1608VT SEIRES

FEATURES:

- Very high permeability nanocrystalline core material
- Improved isolation through plastic case and winding spacer
- High and stable inductance values at high temperatures
- High rated currents
- Broadband suppression
- Small size

APPLICATIONS:

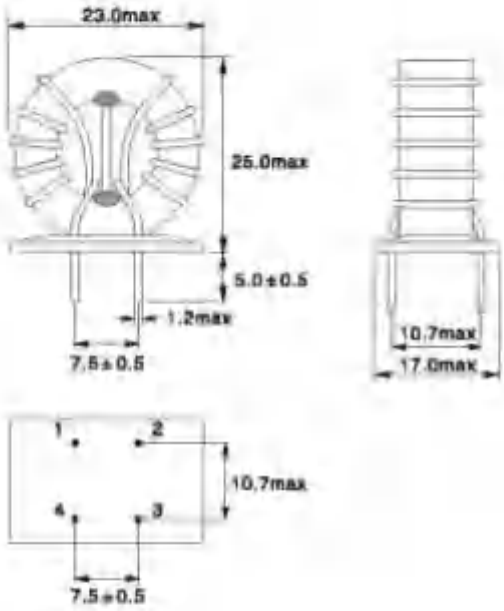
- Power electronics
- Power line in- and output filter
- Suppression for common mode noise
- Radio interference suppression in motors

ELECTRICAL CHARACTERISTICS:

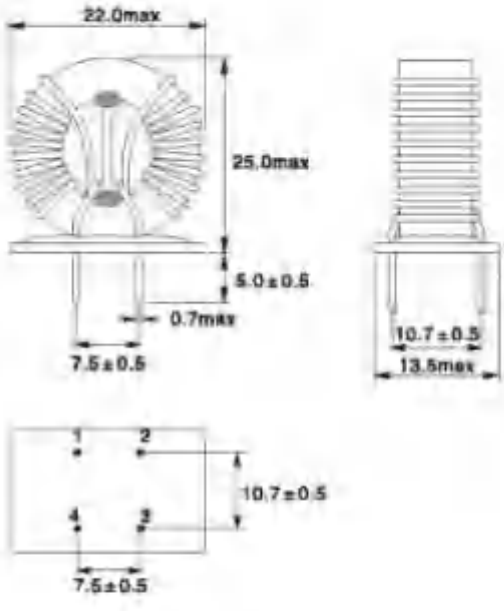
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)	Dimensions
TRF1608VT-102Y	1	± 50	15	3.3	1
TRF1608VT-202Y	2		10	6	1
TRF1608VT-902Y	9		5.0	28	2
TRF1608VT-173Y	17		4.0	50	2
TRF1608VT-333Y	33		2.5	90	2

PHYSICAL CHARACTERISTICS:

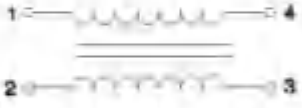
Dimensions 1



Dimensions 2



Winding



Notes:

Rated voltage.....250Vac

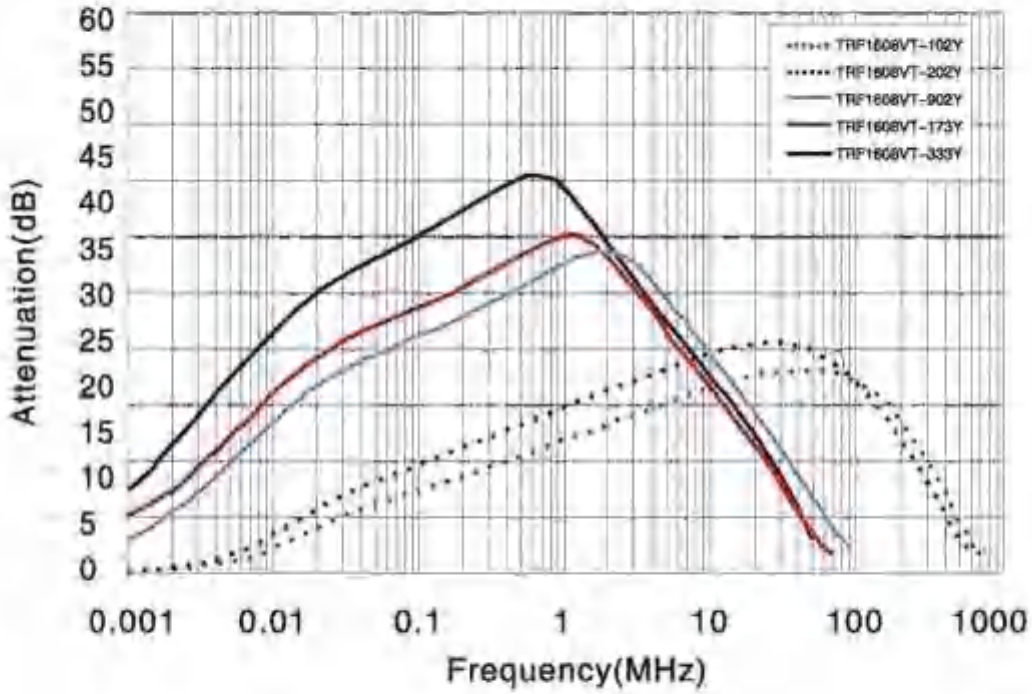
Frequency.....50/60Hz

Insulation test voltage.....1500V

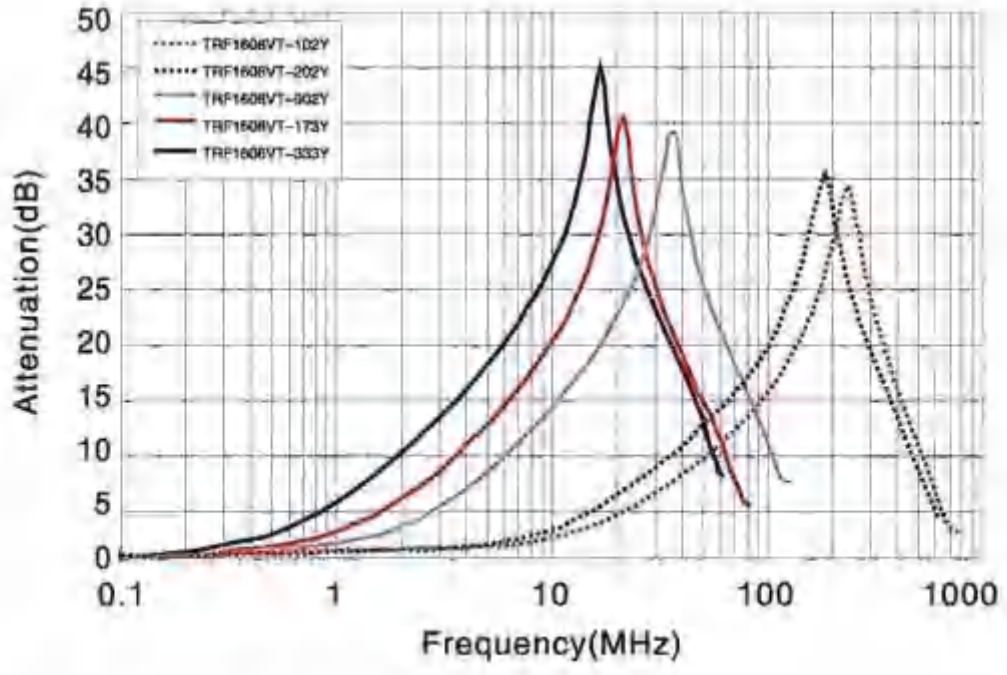
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

INSERTION LOSS COMMON MODE



INSERTION LOSS DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF2008HT SERIES

FEATURES:

- Horizontal design for compact housings
- Supppression even at low frequency ranges
- Broadband filtering because of low capacitance winding technique
- Highest possible current with small sizes

APPLICATIONS:

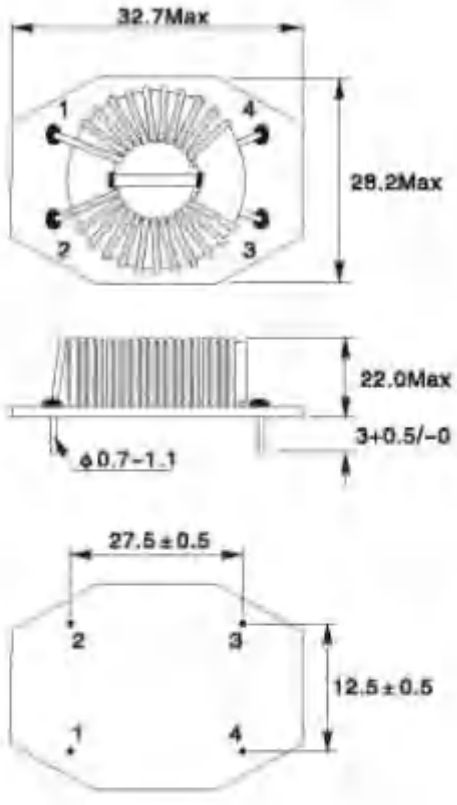
- Power electronics
- Power line input and output filter
- Radio interference suppression in motors
- Suppression of common mode noise

ELECTRICAL CHARACTERISTICS:

Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF2008HT-102N	1.0	±30	10	12.5
TRF2008HT-222N	2.2		6	22
TRF2008HT-332N	3.3		5	37
TRF2008HT-502N	5.0		4	50
TRF2008HT-702N	7.0		3.5	80

PHYSICAL CHARACTERISTICS:

Dimensions 1



Winding

Notes:

Rated voltage.....250Vac

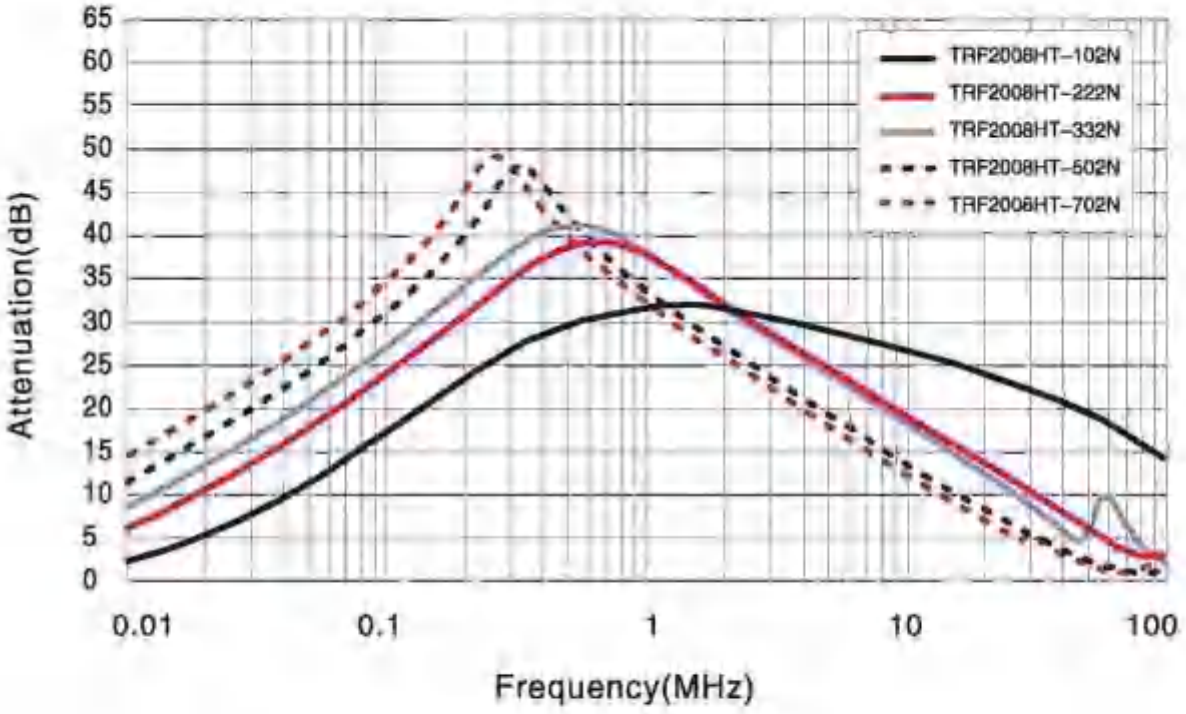
Frequency.....50/60Hz

Insulation test voltage.....1500V

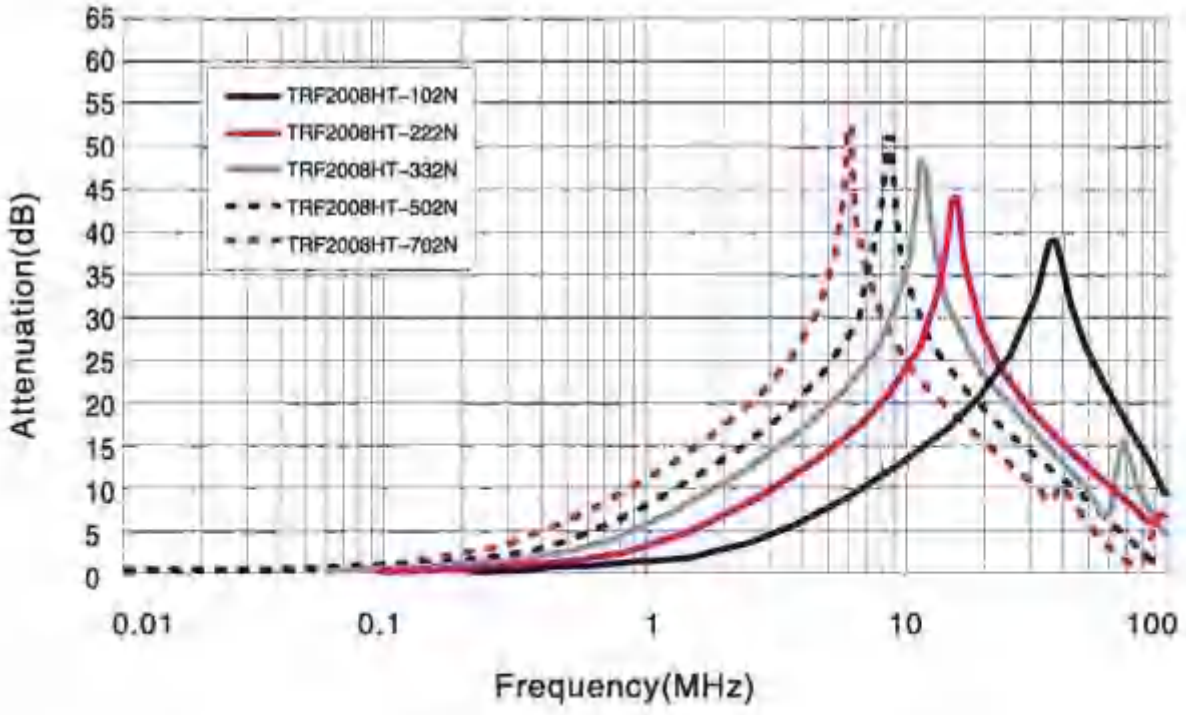
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF2010VT SERIES

FEATURES:

- With this product you can achieve high suppresion of asymmetric interferences even at low frequency ranges
- Broadband filtering because of low capacitance winding technique
- Very compact design
- Highest possible current with small sizes
- High interference compression asymmetric interference rates also at low frequence range

APPLICATIONS:

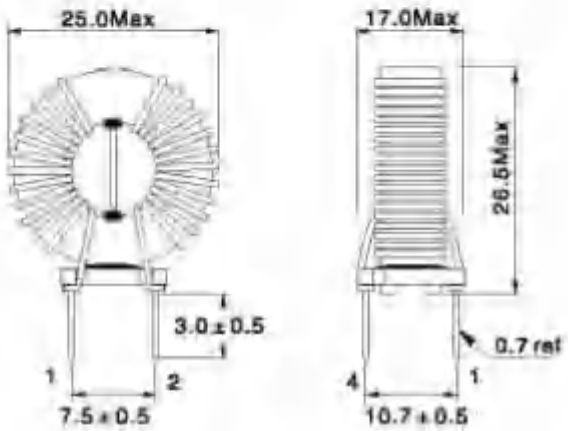
- Power electronics
- Suppression for common mode noise
- Radio interference suppression in motors
- Power line input and output filter

ELECTRICAL CHARACTERISTICS:

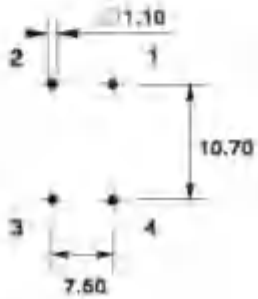
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF2010VT-102N	1.0	±30	6.0	13
TRF2010VT-222N	2.2		4.0	30
TRF2010VT-332N	3.3		2.5	60
TRF2010VT-502N	5.0		2.5	95
TRF2010VT-103N	10.0		2.0	125
TRF2010VT-203N	20.0		1.5	270

PHYSICAL CHARACTERISTICS:

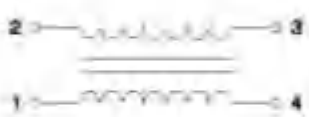
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

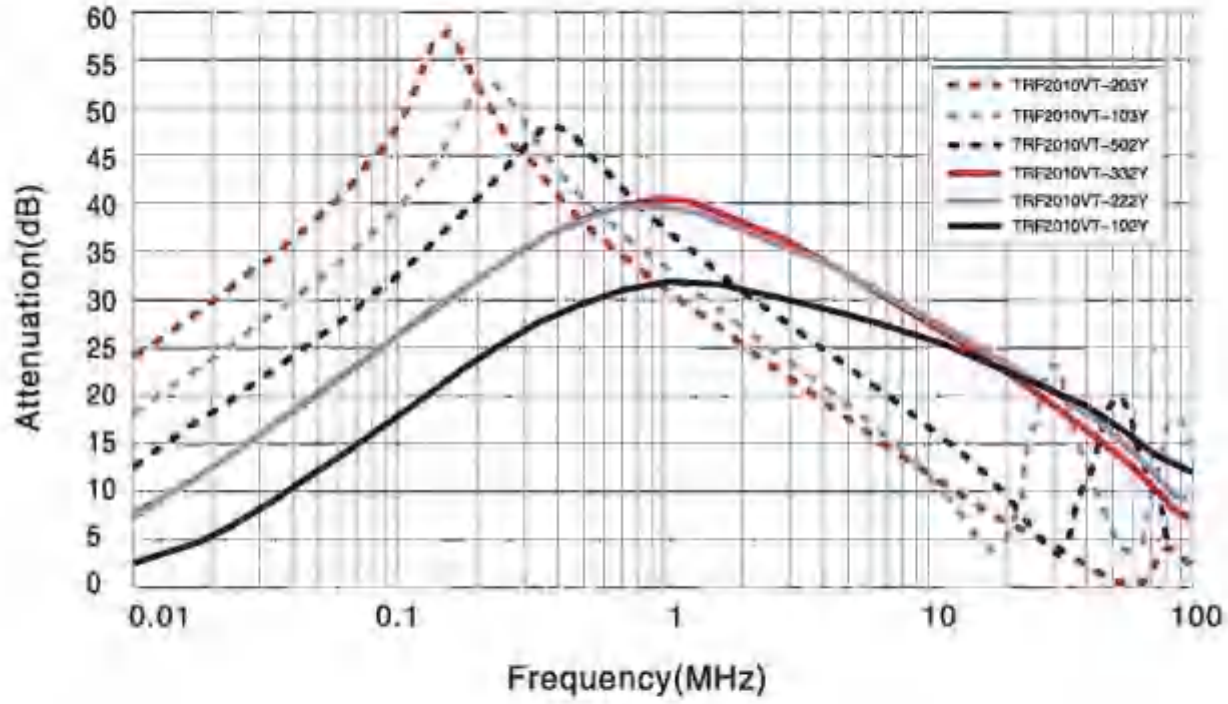
Frequency.....50/60Hz

Insulation test voltage.....1500V

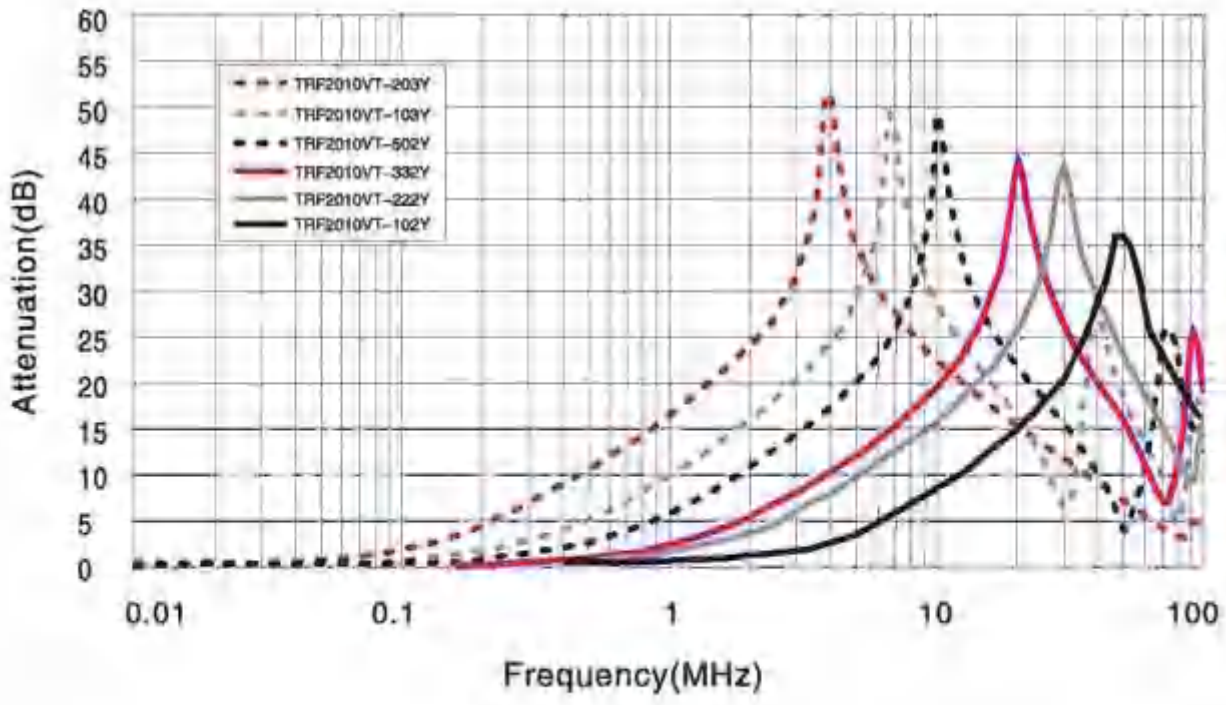
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE

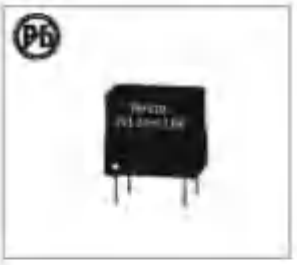


ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF210 SERIES



FEATURES:

- High resonance frequency due to special winding technique
- Approx. 0.7% stray inductance for symmetrical interference suppression
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2) and UL 1283
- RoHS-compatible

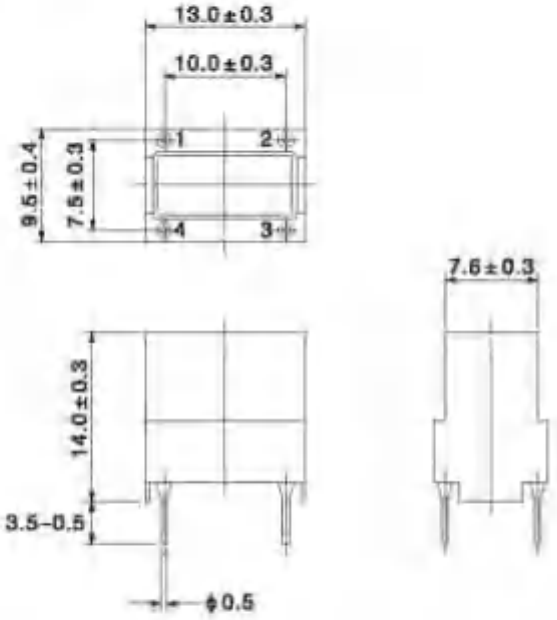
APPLICATIONS:

- Suppression of common-mode interferences
- Switch-mode power applications
- Electronic ballasts in lamps

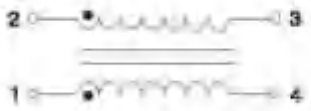
ELECTRICAL CHARACTERISTICS:

Part Number	L(mH) +50%/-30%	Lk(uH) Typ	Rated Current (A)	RDC(mΩ) Max
TRF210-112Y	1.1	6	2.0	65
TRF210-162Y	1.6	10	1.5	110
TRF210-302Y	3.0	20	1.0	220
TRF210-442Y	4.4	30	0.6	400
TRF210-123Y	12	80	0.3	1100
TRF210-223Y	22	130	0.3	1500

PHYSICAL CHARACTERISTICS:



Winding



Notes:

Rated voltage.....250Vac

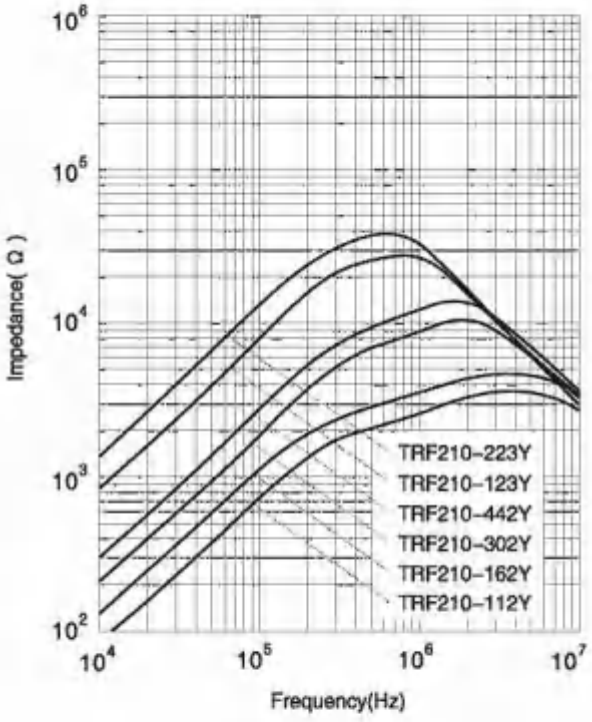
Frequency.....50/60Hz

Insulation test voltage.....1500V

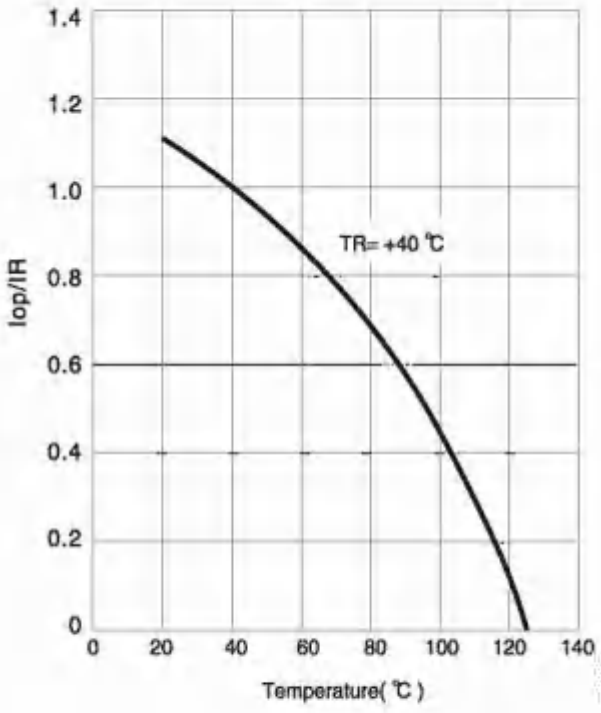
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

Impedance |Z| versus frequency F
measured with windings in parallel at +20℃
typical values



Current derating Iop/IR
versus ambient temperature TA



COMMON MODE POWER LINE CHOKE

TRF2110VT SEIRES

FEATURES:

- Very high permeability nanocrystalline core material
- Improved isolation through plastic case and winding spacer
- High and stable inductance values at high temperatures
- High rated currents
- Broadband suppression
- Small size

APPLICATIONS:

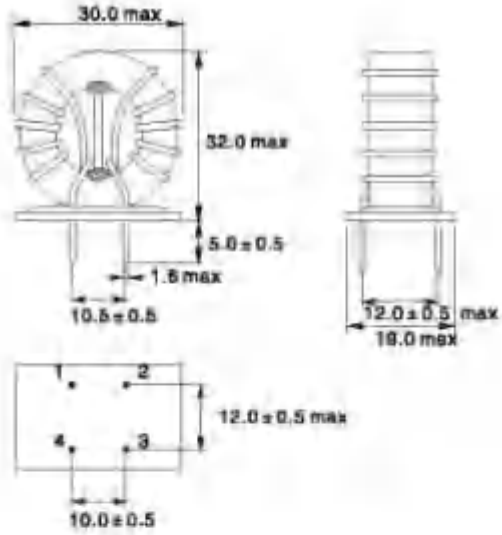
- Power electronics
- Power line in- and output filter
- Suppression for common mode noise
- Radio interference suppression in motors

ELECTRICAL CHARACTERISTICS:

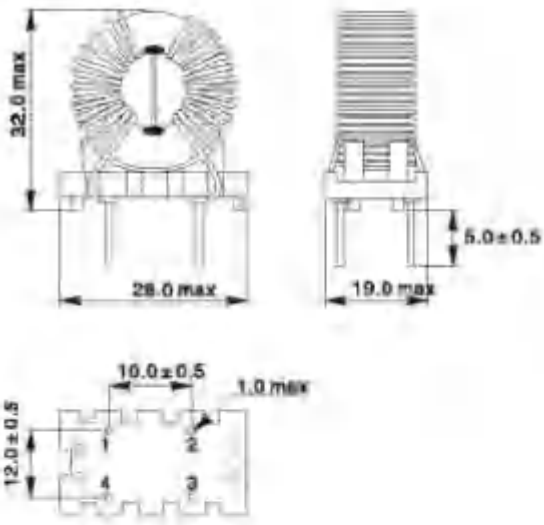
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)	Dimensions
TRF2110VT-102Y	1.0	-30 to +50	20	2.4	1
TRF2110VT-152Y	1.5		18	3.2	1
TRF2110VT-202Y	2.0		15	5	1
TRF2110VT-402Y	4.0		11	8.5	1
TRF2110VT-702Y	7.0		7	20	1
TRF2110VT-153Y	15		5.0	38	2
TRF2110VT-353Y	35		3.5	80	2
TRF2110VT-823Y	82		2.5	170	2

PHYSICAL CHARACTERISTICS:

Dimensions 1



Dimensions 2



Winding

Notes:

Rated voltage.....250Vac

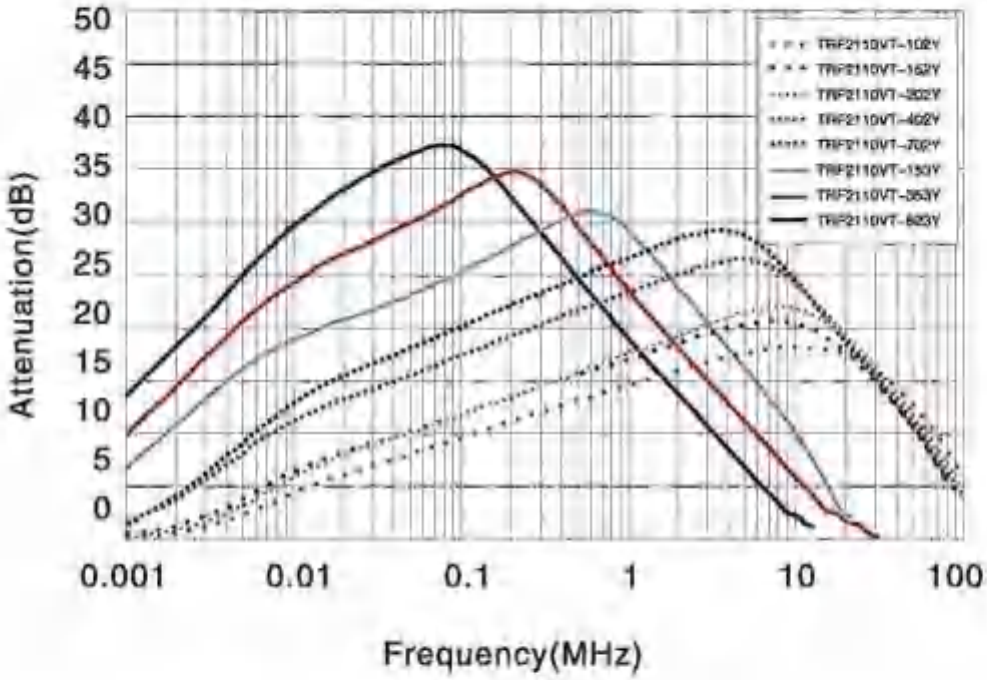
Frequency.....50/60Hz

Insulation test voltage.....1500V

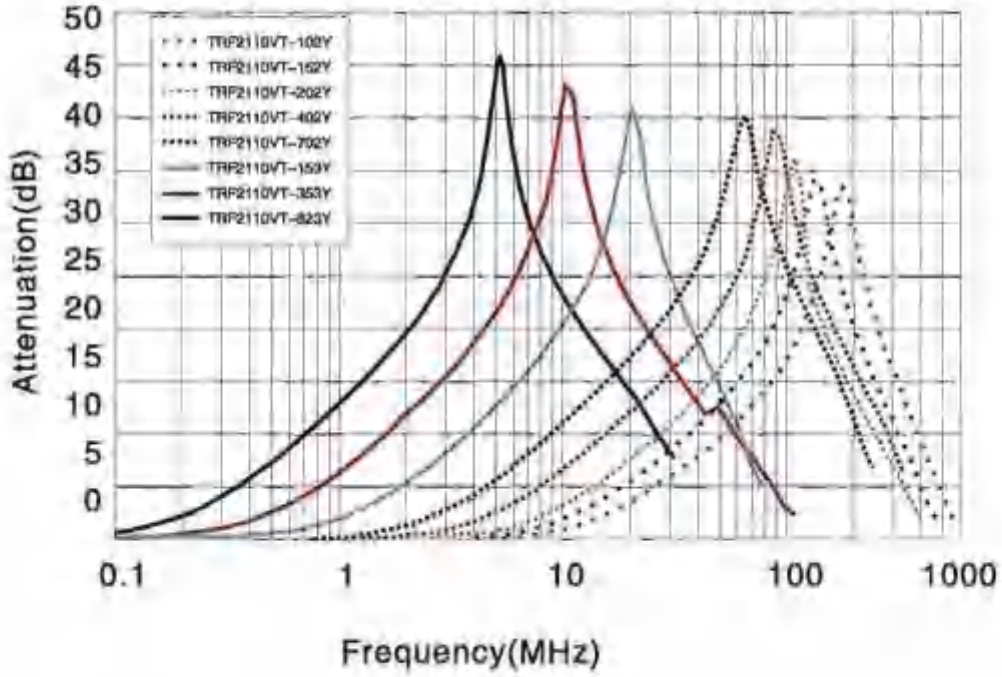
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

INSERTION LOSS COMMON MODE



INSERTION LOSS DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF212A SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLICATIONS:

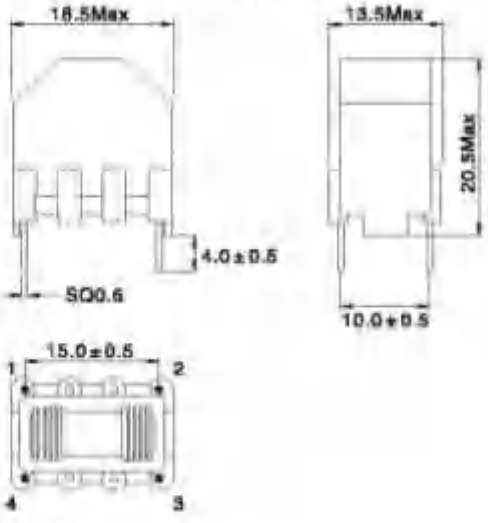
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

ELECTRICAL CHARACTERISTICS:

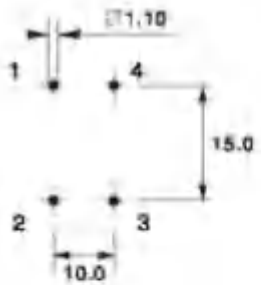
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
TRF212A-401N	0.4	±30	3.6	0.02
TRF212A-102N	1.0		2.0	0.06
TRF212A-332N	3.3		1.5	0.15
TRF212A-682N	6.8		1.0	0.3
TRF212A-103N	10		0.7	0.55
TRF212A-183N	18		0.5	0.75
TRF212A-273N	27		0.4	1.2
TRF212A-393N	39		0.4	1.7
TRF212A-473N	47		0.3	2.6

PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern(in mm)



Winding

Notes:

Rated voltage.....250Vac

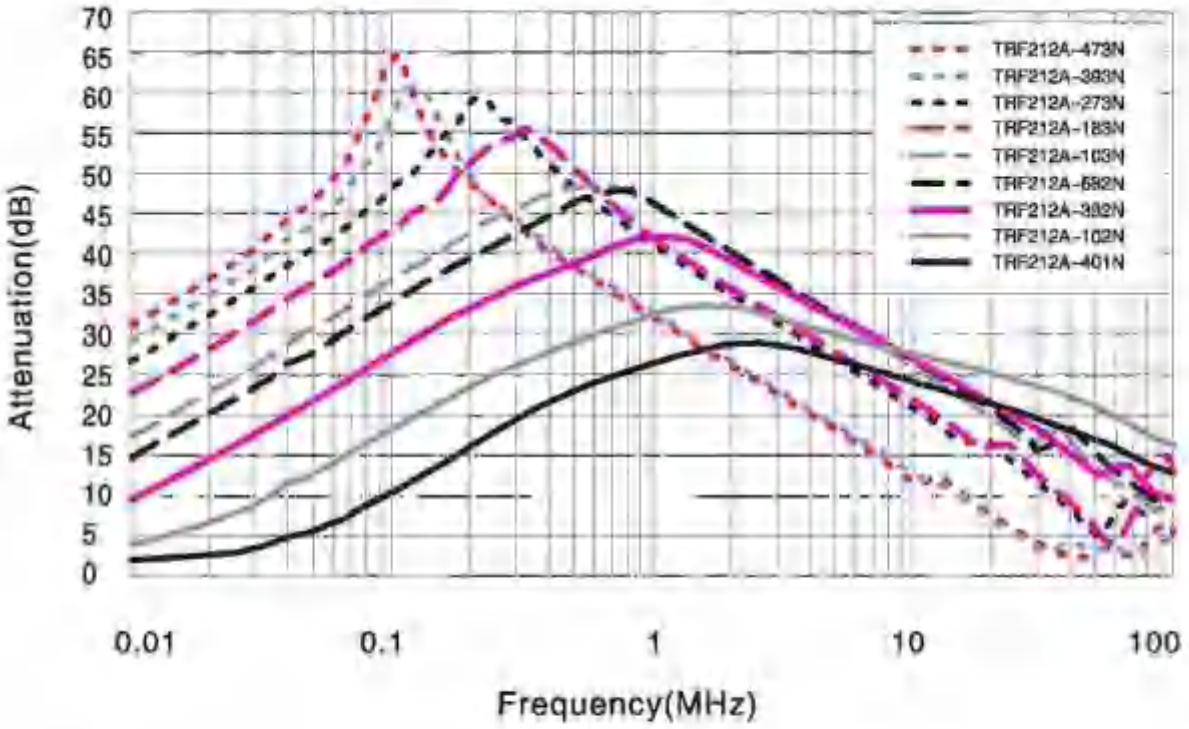
Frequency.....50/60Hz

Insulation test voltage.....1500V

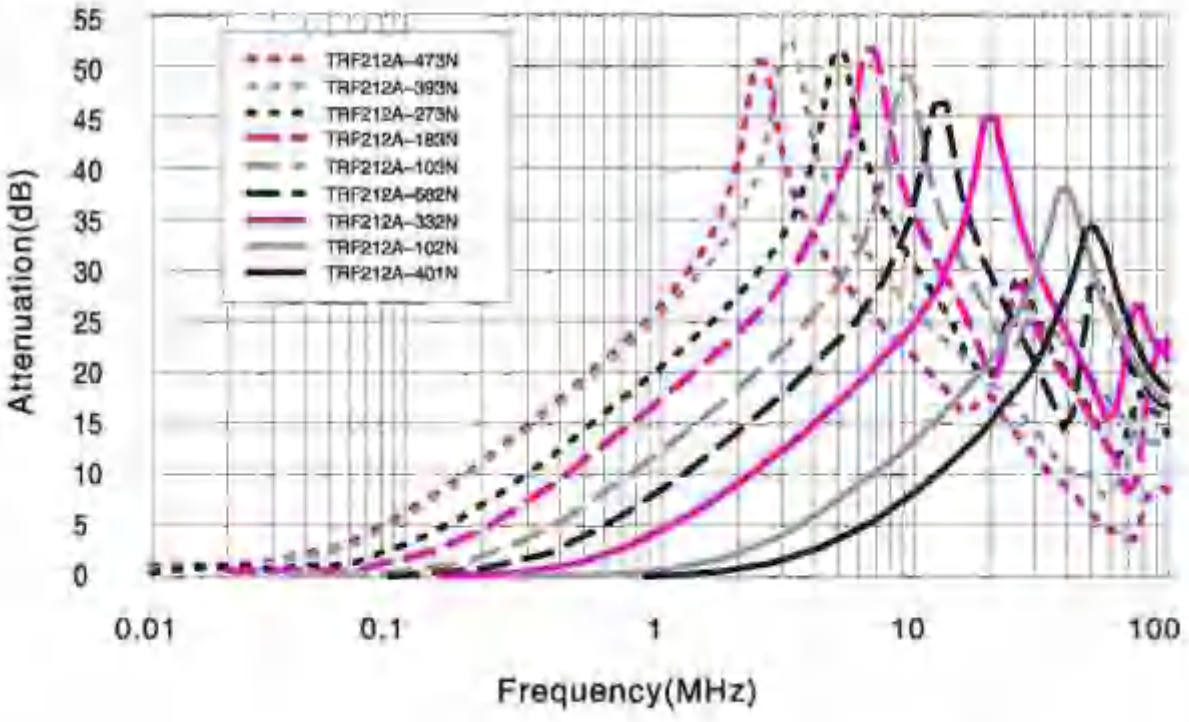
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF214A SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLICATIONS:

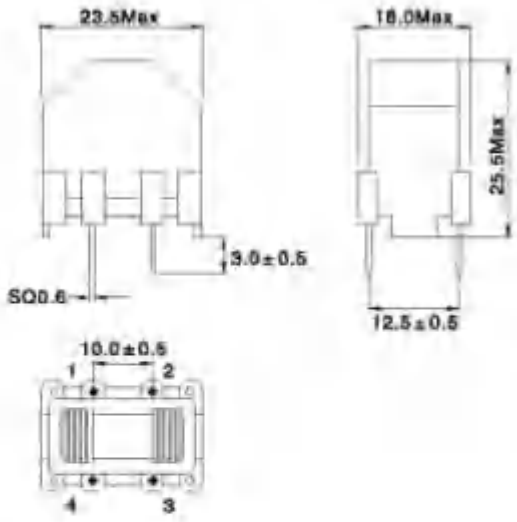
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

ELECTRICAL CHARACTERISTICS:

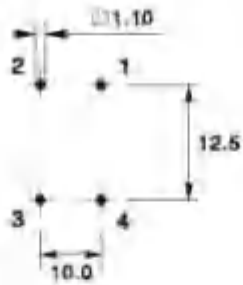
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
TRF214A-701N	0.7	±30	4.7	0.02
TRF214A-102N	1.0		3.0	0.04
TRF214A-222N	2.2		2.0	0.06
TRF214A-332N	3.3		2.0	0.075
TRF214A-422N	4.2		2.0	0.12
TRF214A-682N	6.8		1.5	0.20
TRF214A-103N	10		1.3	0.25
TRF214A-123N	12		1.2	0.28
TRF214A-273N	27		0.6	0.7
TRF214A-473N	47		0.4	1.6

PHYSICAL CHARACTERISTICS:

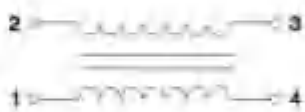
Dimensions 1



Hole pattern (In mm)



Winding



Notes:

Rated voltage.....250Vac

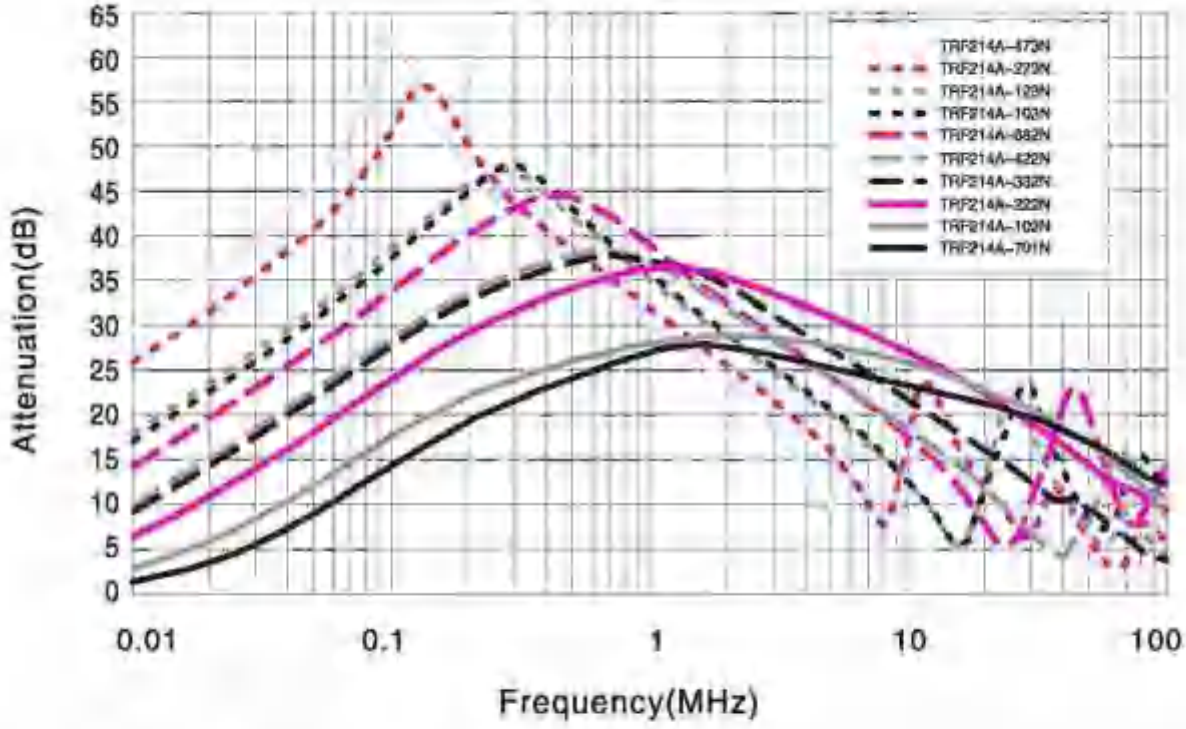
Frequency.....50/60Hz

Insulation test voltage.....1500V

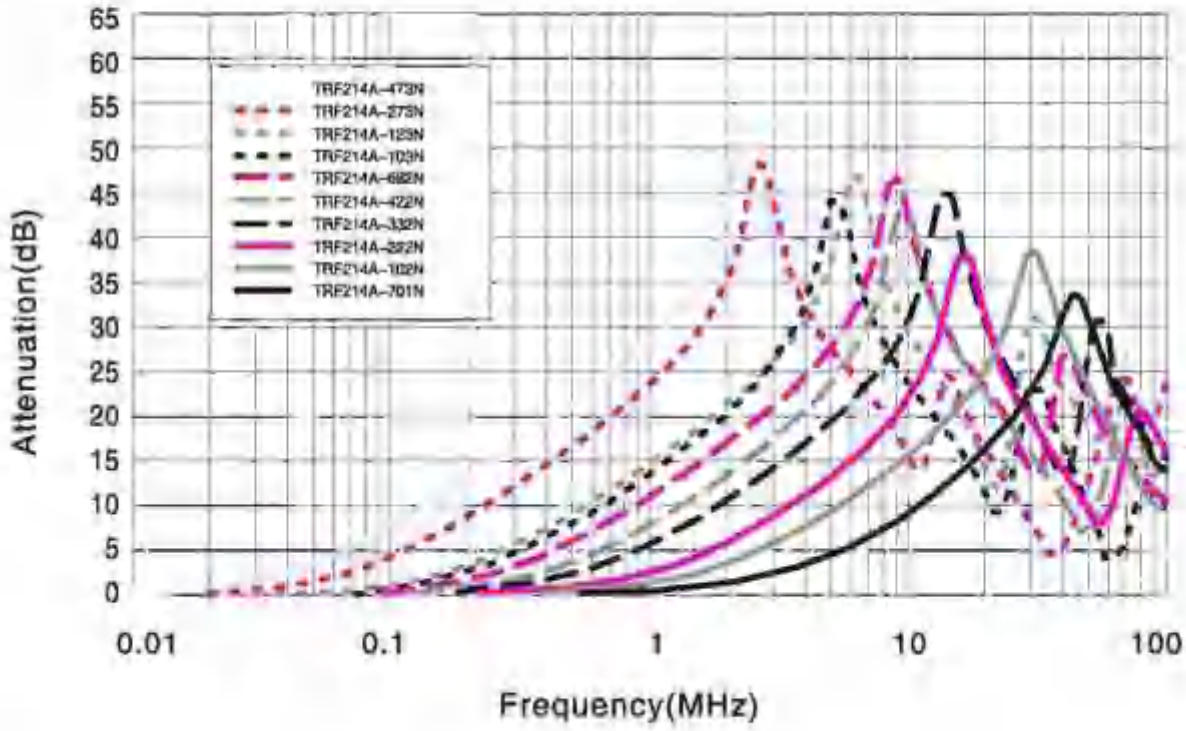
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



DOUBLE CORE COMMON MODE POWER LINE CHOKE

TRF2206VT-D SERIES

FEATURES:

- MnZn and Ni-ZnCore material
- Suppression of noise in a broad frequency range (100kHz to 100MHz)
- Combined noise and burst filter
- Increases electromagnetic immunity

APPLICATIONS:

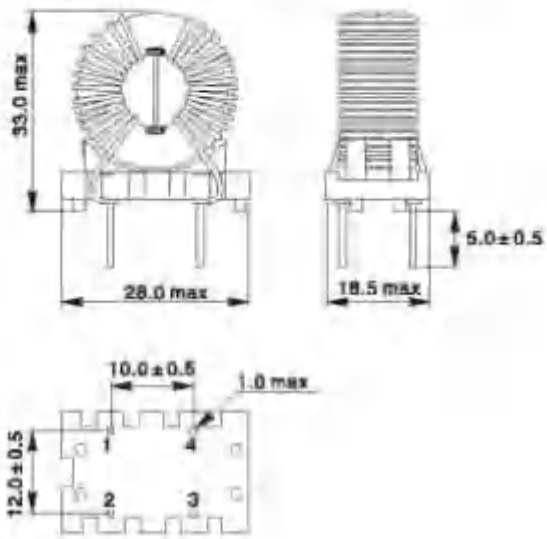
- Power electronics
- EMC filter
- Mains line filter
- Interference suppression in motors
- Common mode filters

ELECTRICAL CHARACTERISTICS:

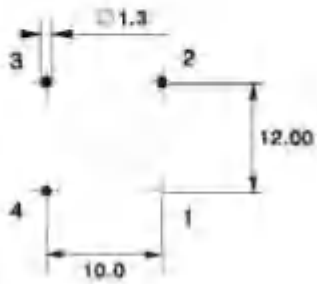
Part Number	L (uH)	Rated Current (A)	RDC max. (mΩ)	Rated voltage (Vac)
TRF2206VT-D-470Y	47	15	4.6	250
TRF2206VT-D-101Y	100	14	6	250
TRF2206VT-D-221Y	220	12	9	250
TRF2206VT-D-471Y	470	9	16	250
TRF2206VT-D-102Y	1000	4.5	42	250

PHYSICAL CHARACTERISTICS:

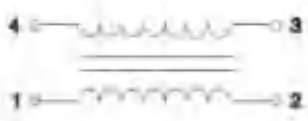
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

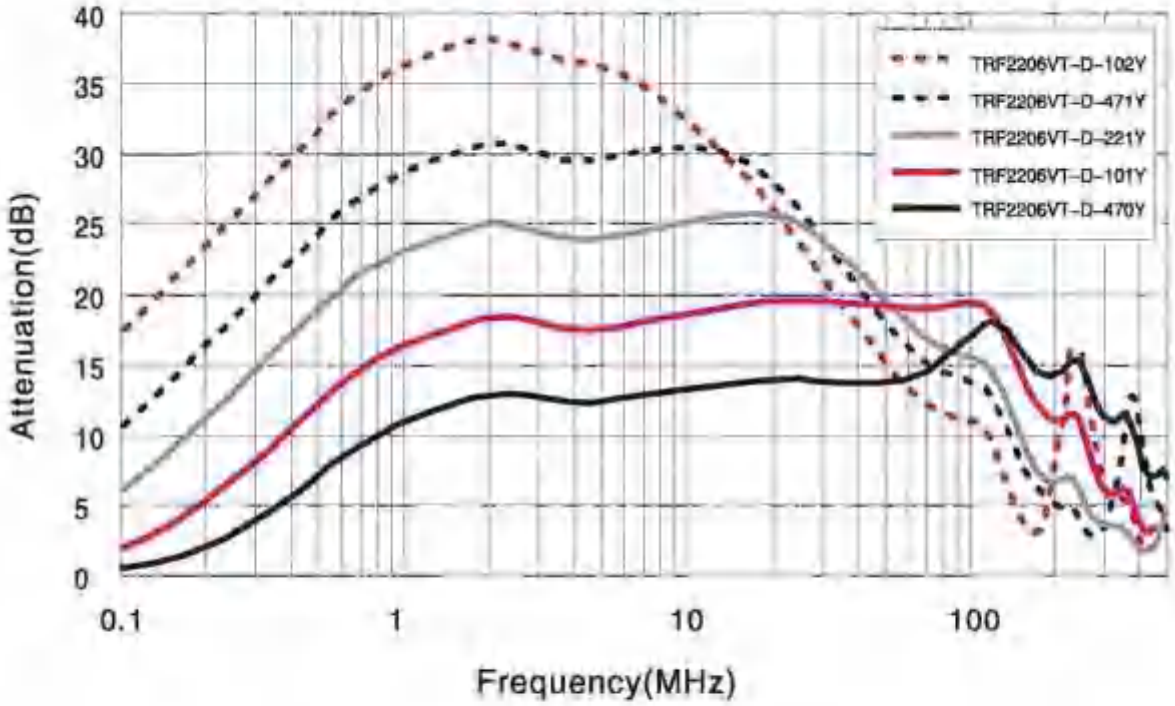
Frequency.....50/60Hz

Insulation test voltage.....1500V

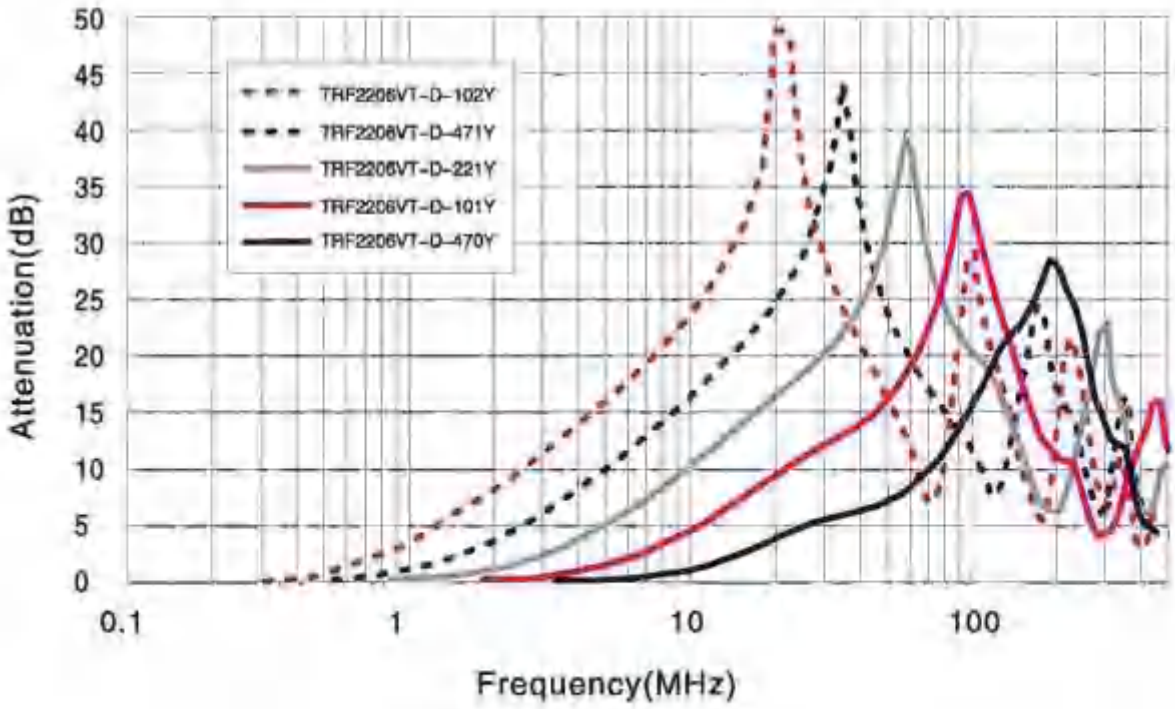
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF2208VT SERIES

FEATURES:

- With this product you can achieve high suppression of asymmetric interferences even at low frequency ranges
- Broadband filtering because of low capacitance winding technique
- Very compact design
- Highest possible current with small sizes
- High interference compression asymmetric interference rates also at low frequence range

APPLICATIONS:

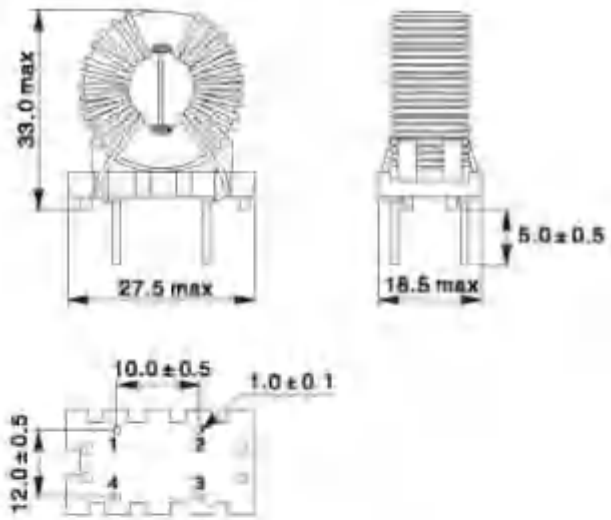
- Power electronics
- Suppression for common mode noise
- Radio interference suppression in motors
- Power line input and output filter

ELECTRICAL CHARACTERISTICS:

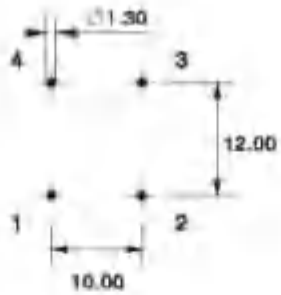
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF2208VT-102N	1.0	±30	10	7
TRF2208VT-222N	2.2		6	20
TRF2208VT-332N	3.3		4	35
TRF2208VT-103N	10.0		3	105
TRF2208VT-203N	20.0		2	220

PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern(in mm)



Winding

Notes:

Rated voltage 250Vac

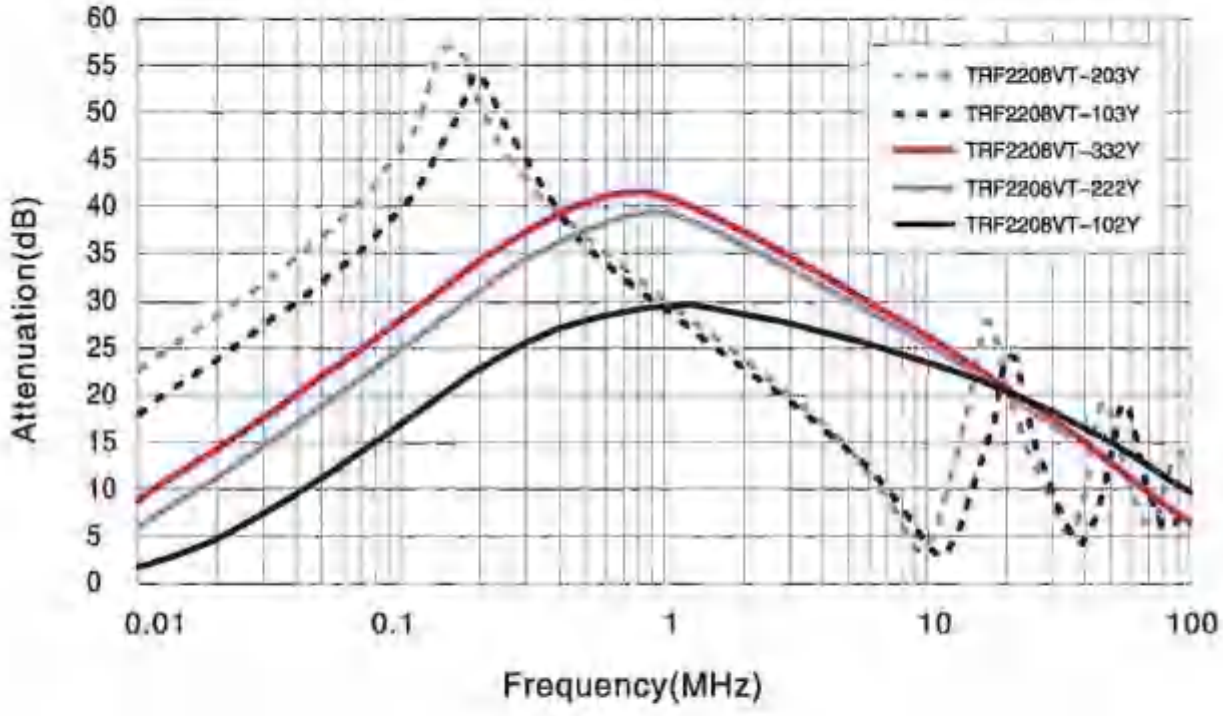
Frequency 50/60Hz

Insulation test voltage 1500V

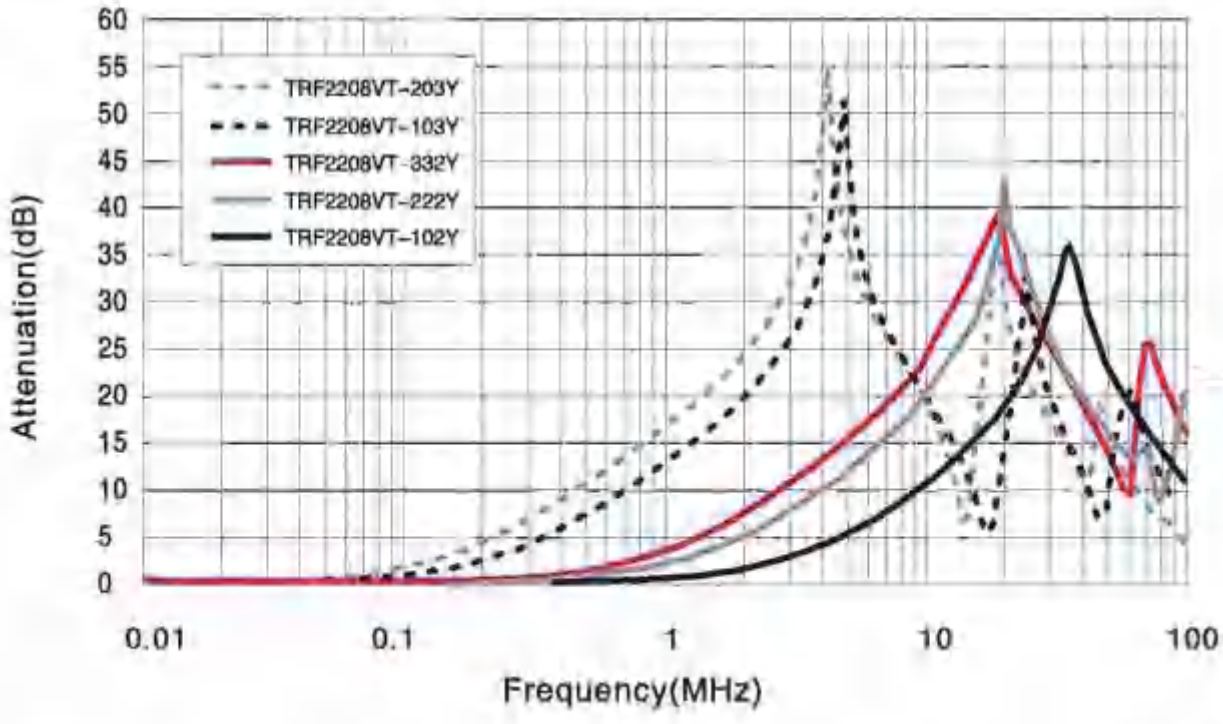
Operating temperature ..... -40 ℃ to +125 ℃

Housing UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF222A SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLICATIONS:

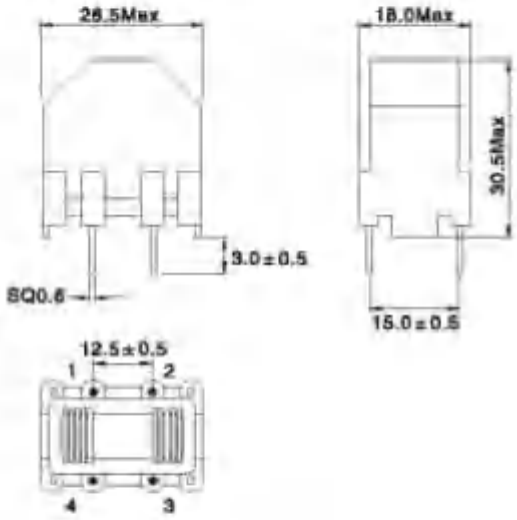
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

ELECTRICAL CHARACTERISTICS:

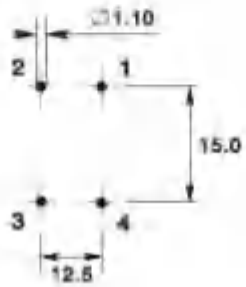
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
TRF222A-182N	1.8	±30	6.0	0.023
TRF222A-272N	2.7		3.0	0.06
TRF222A-402N	4.0		3.0	0.07
TRF222A-682N	6.8		1.9	0.16
TRF222A-103N	10		1.9	0.16
TRF222A-273N	27		1.0	0.64
TRF222A-333N	33		0.8	0.65
TRF222A-503N	50		0.6	1.2

PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern(in mm)



Winding

Notes:

Rated voltage.....250Vac

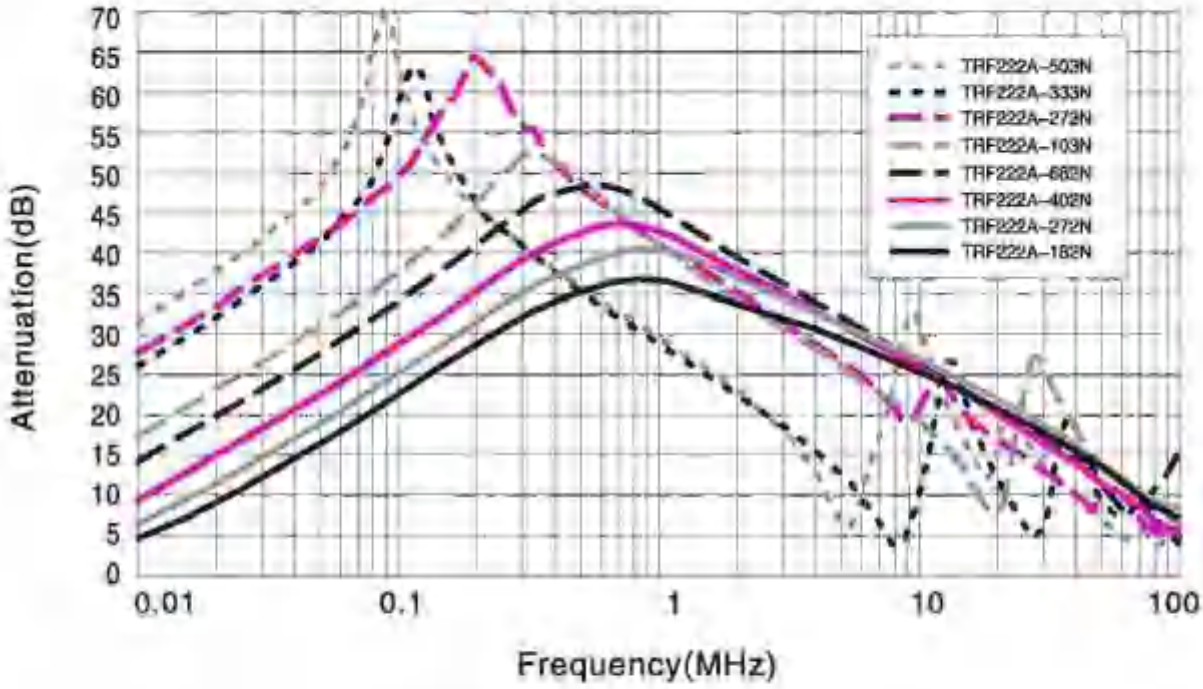
Frequency.....50/60Hz

Insulation test voltage.....1500V

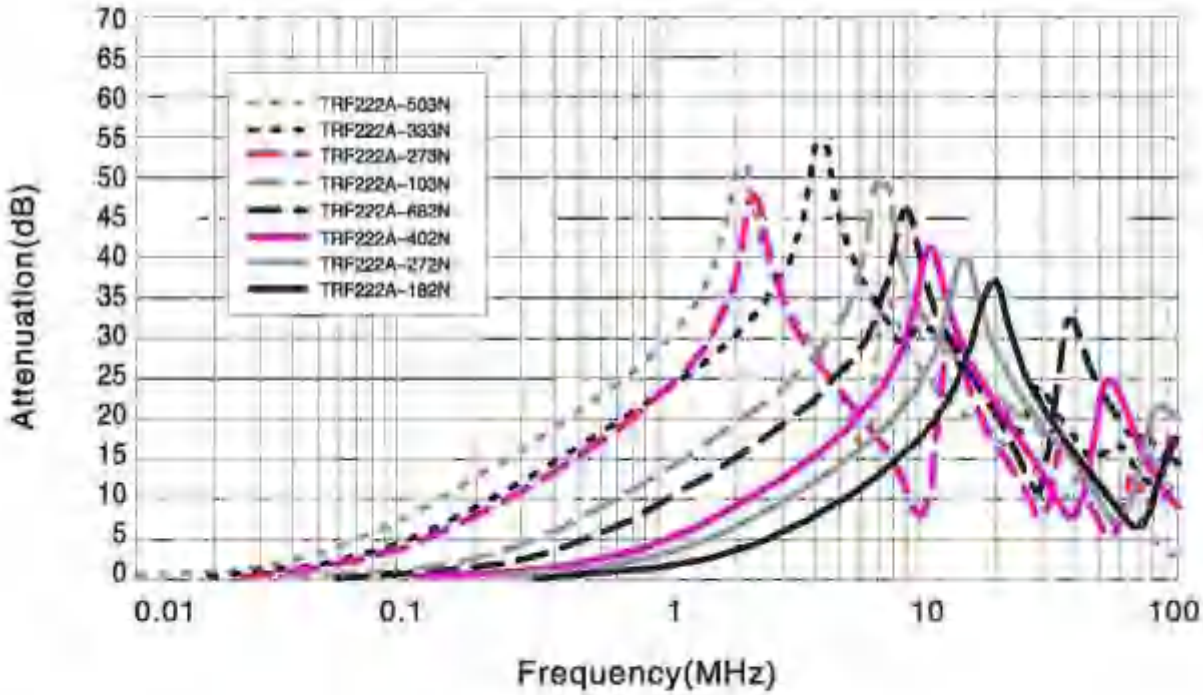
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF246A SERIES

FEATURES:

- Easy assembly due to 4 pole housing
- Compact, small size
- 4 soldering pins for perfect mechanical decoupling
- Toroidal core choke with sector winding
- High interference suppression for common mode interferences in low and middle frequency ranges
- Low stray field

APPLICATIONS:

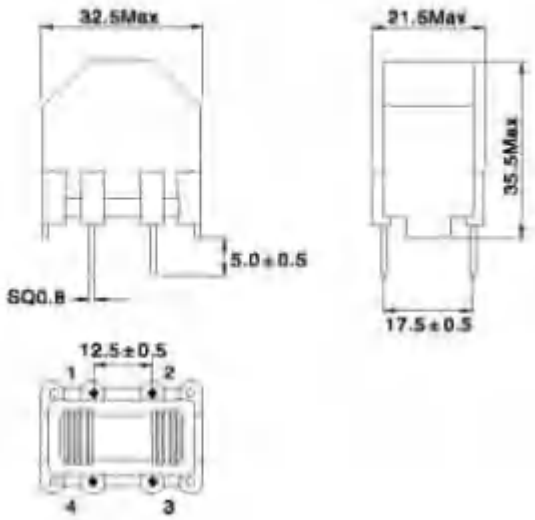
- Power electronics
- SMPS
- Power line filter
- Suppression for common mode noise

ELECTRICAL CHARACTERISTICS:

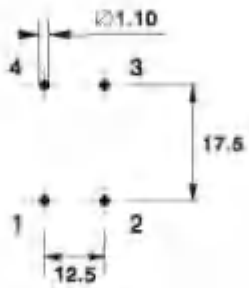
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (Ω)
TRF246A-222N	2.2	±30	4.3	0.038
TRF246A-332N	3.3		4.0	0.065
TRF246A-682N	6.8		2.5	0.12

PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern(in mm)



Winding

Notes:

Rated voltage.....250Vac

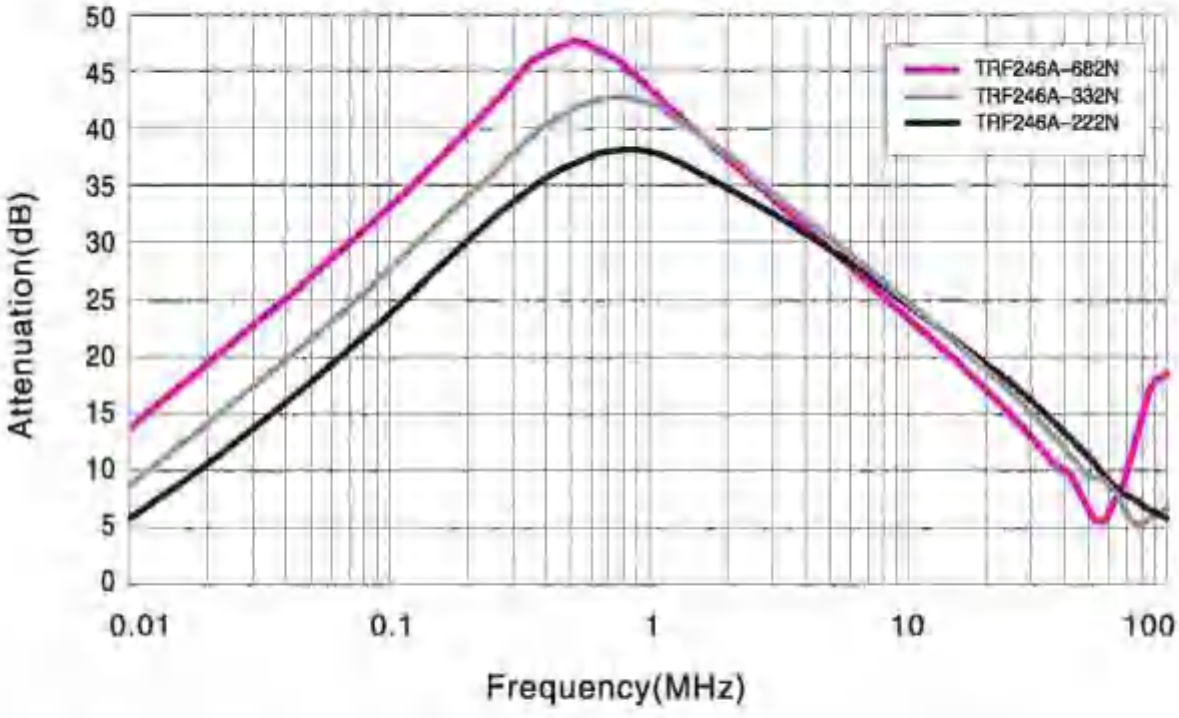
Frequency.....50/60Hz

Insulation test voltage.....1500V

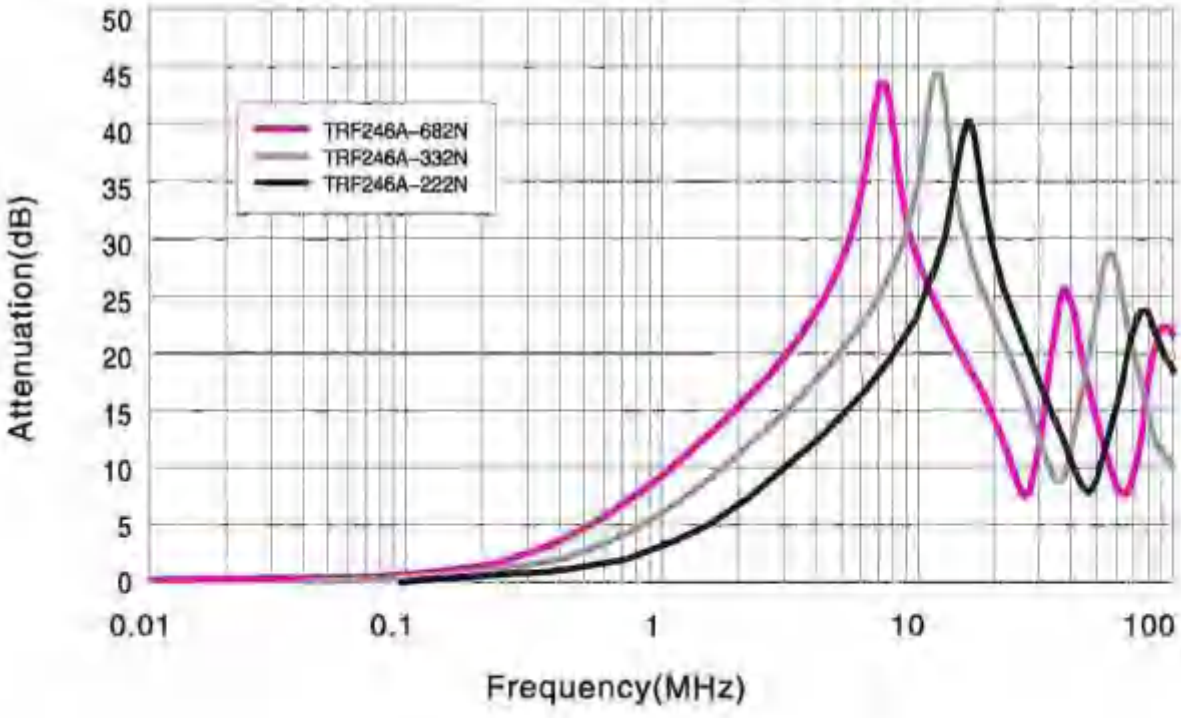
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF2512VT SERIES

FEATURES:

- With this product you can achieve high suppresion of asymmetric interferences even at low frequency ranges
- Broadband filtering because of low capacitance winding technique
- Very compact design
- Highest possible current with small sizes
- High interference compression asymmetric interference rates also at low frequence range

APPLICATIONS:

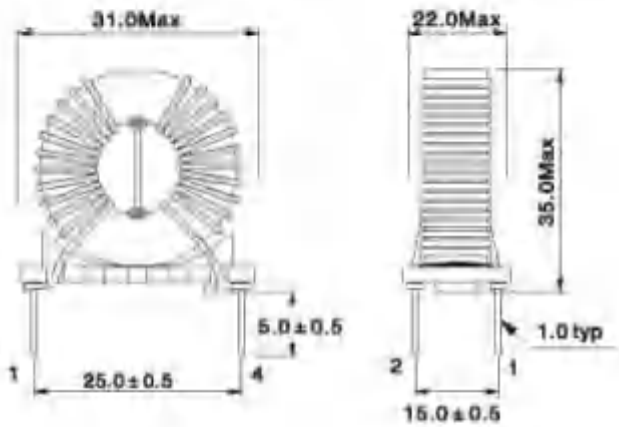
- Power electronics
- Suppression for common mode noise
- Radio interference suppression in motors
- Power line input and output filter

ELECTRICAL CHARACTERISTICS:

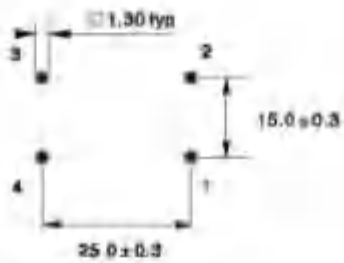
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF2512VT-102N	1.0	±30	12	9
TRF2512VT-222N	2.2		8	14
TRF2512VT-332N	3.3		6	25
TRF2512VT-502N	5.0		6	45
TRF2512VT-103N	10.0		5	55
TRF2512VT-203N	20.0		3	160
TRF2512VT-333N	33.0		3	210

PHYSICAL CHARACTERISTICS:

Dimensions 1



Hole pattern(in mm)



Winding

Notes:

Rated voltage.....250Vac

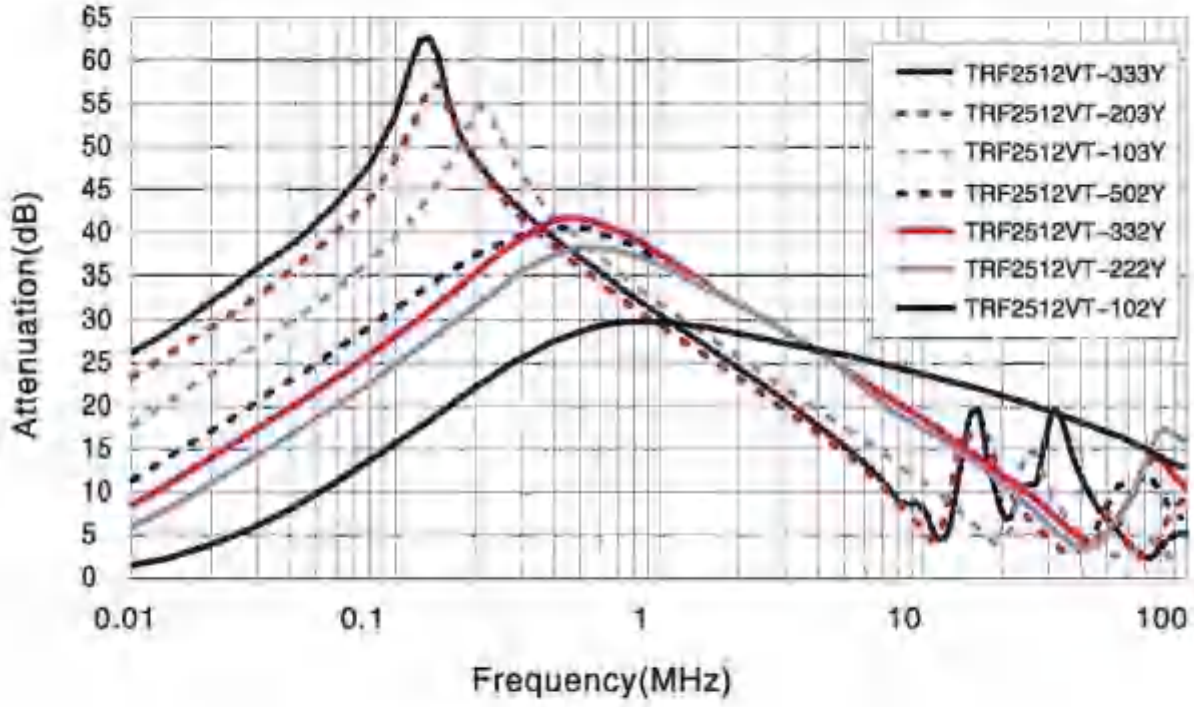
Frequency.....50/60Hz

Insulation test voltage.....1500V

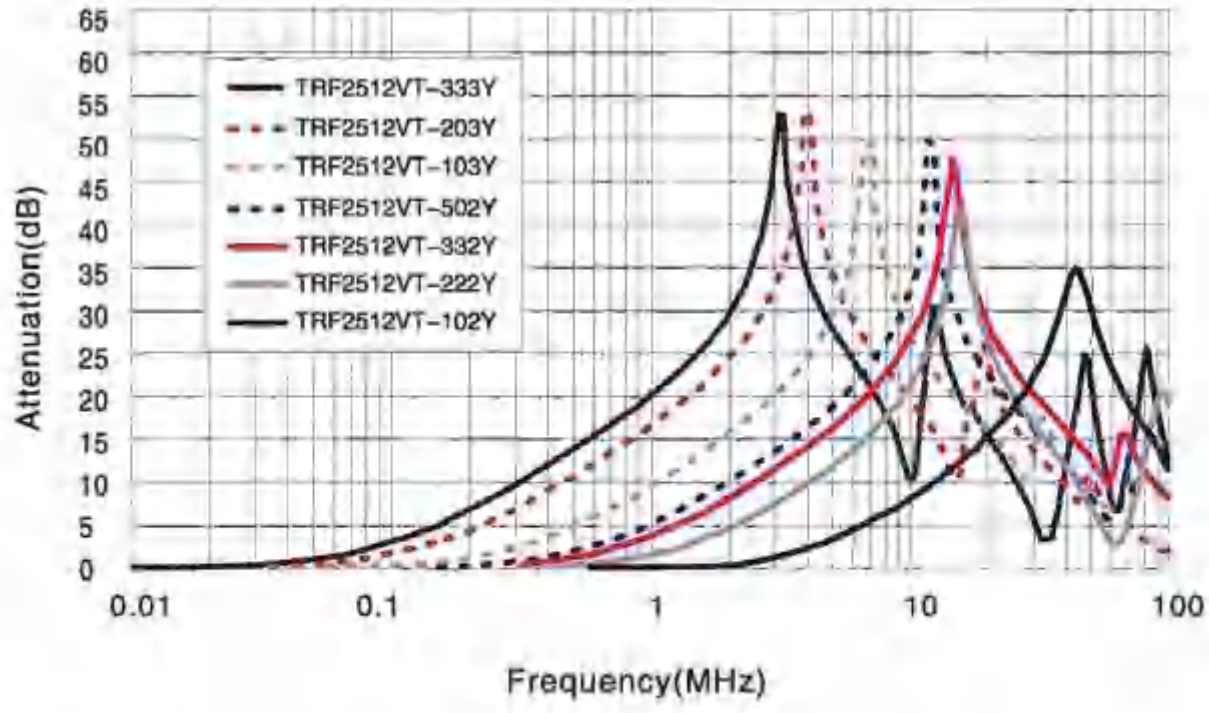
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF3015VT SEIRES

FEATURES:

- Very high permeability nanocrystalline core material
- Improved isolation through plastic case and winding spacer
- High and stable inductance values at high temperatures
- High rated currents
- Broadband suppression
- Small size

APPLICATIONS:

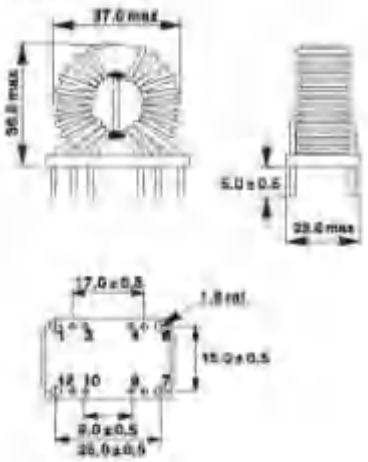
- Power electronics
- Power line in– and output filter
- Suppression for common mode noise
- Radio interference suppression in motors

ELECTRICAL CHARACTERISTICS:

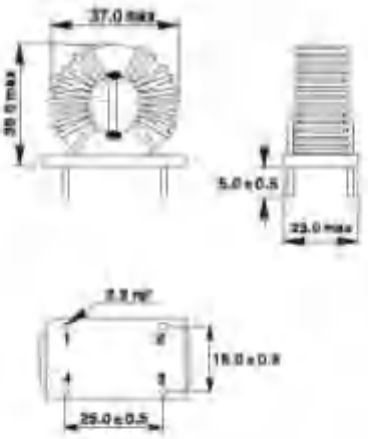
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)	Dimensions
TRF3015VT-901Y	0.9	-30 to +50	32	1.1	1
TRF3015VT-252Y	2.5		25	2.2	2
TRF3015VT-302Y	3.0		23	3.0	2
TRF3015VT-452Y	4.5		18	4.2	2
TRF3015VT-123Y	12		10	15	2
TRF3015VT-303Y	30		5	46	2
TRF3015VT-903Y	90		3.5	110	3
TRF3015VT-193Y	190		2.0	310	3

PHYSICAL CHARACTERISTICS:

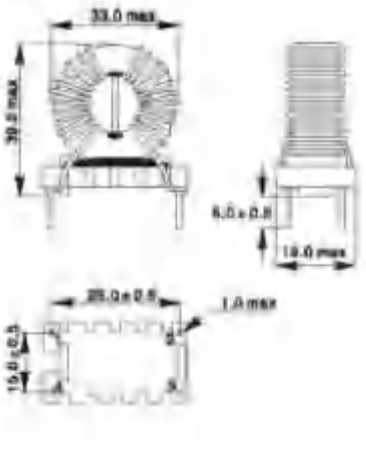
Dimensions 1



Dimensions 2



Dimensions 3



Winding

Notes:

Rated voltage.....250Vac

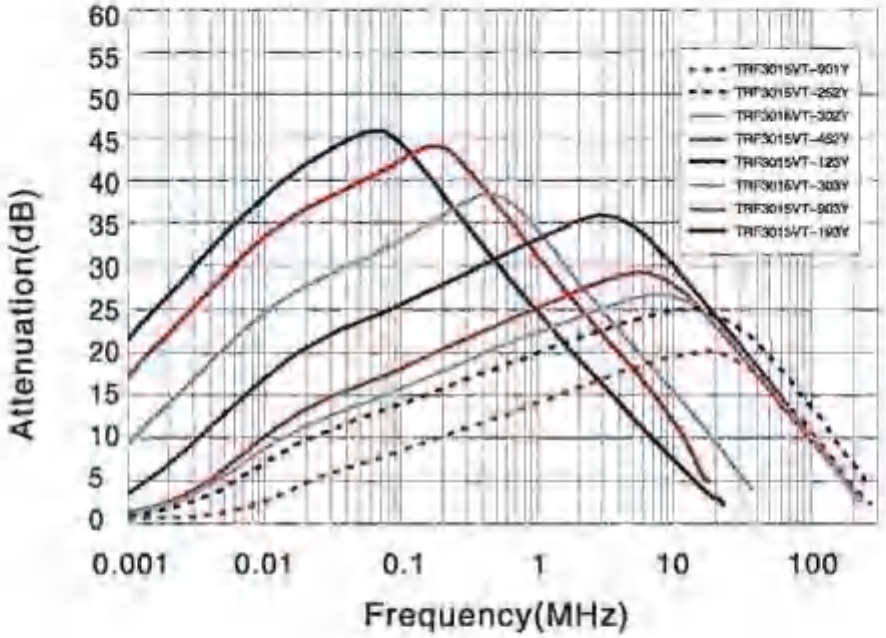
Frequency.....50/60Hz

Insulation test voltage.....1500V

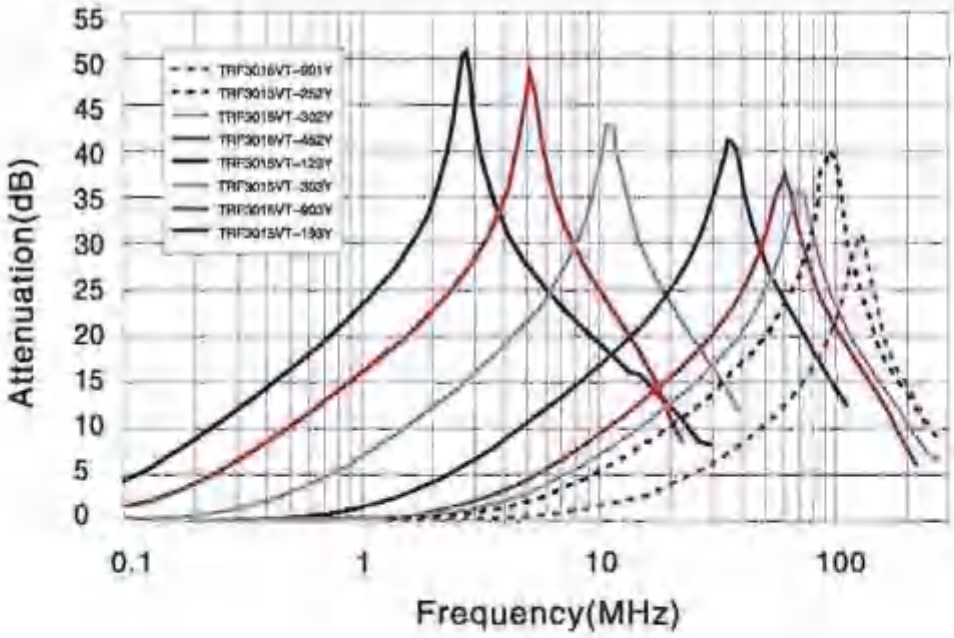
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

INSERTION LOSS COMMON MODE



INSERTION LOSS DIFFERENTIAL MODE



THROUGH-HOLE TOROIDAL COMMON MODE CHOKES

TRF3518 SERIES

FEATURES:

- 1.5A to 15A ratings
- 1.0mH to 16mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

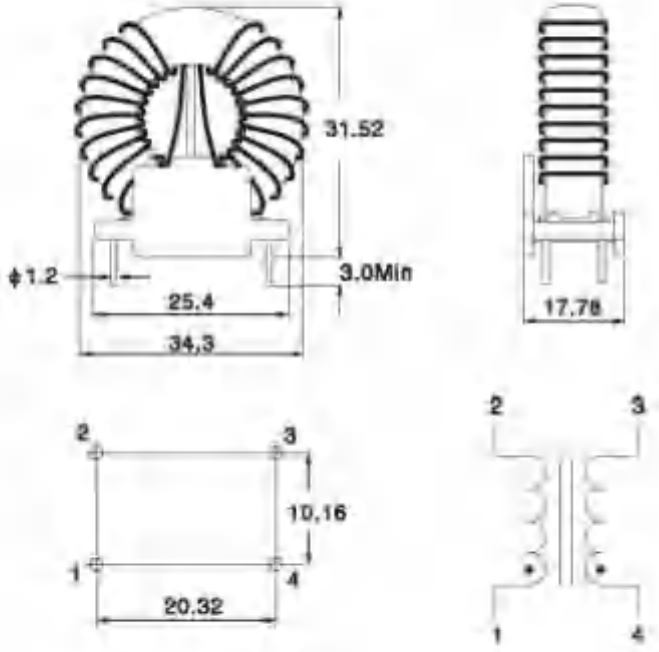
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment It accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH Min.) 10KHz,0.1V	Rated Current Amps	DCR each winding (Ohms Max)	Leakage Inductance (μ H) Type
TRF3518-163Y	16.0	1.5	0.320	180
TRF3518-103Y	10.0	2.2	0.240	130
TRF3518-802Y	8.0	2.5	0.120	90
TRF3518-402Y	4.0	3.5	0.040	45
TRF3518-302Y	3.0	6.0	0.030	35
TRF3518-202Y	2.0	9..0	0.020	25
TRF3518-102Y	1.0	15.0	0.010	12

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



- Inductance tolerance: in +50% -30%
- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi-Pot 2500Vac winding to winding 3S.
- Inductance Testing: 10KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃℃ to +105℃℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

THROUGH-HOLE TOROIDAL COMMON MODE CHOKES

TRF3518A SERIES

FEATURES:

- Excellent Mechanical Strength
- High Reliability and varied Plastic base
- Low resistance and temperature rise
- UL1446 Class B (130℃) Insulation System

COMMON APPLICATIONS:

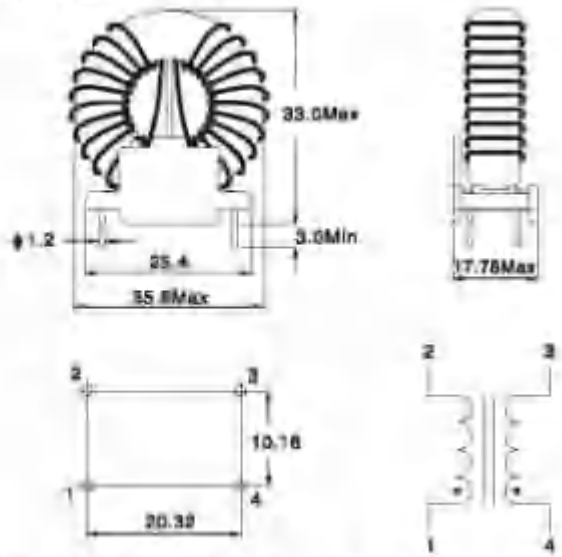
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Eliminating of electromagnetic noise of power and signal circuit.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH Min.) 15.75KHz,0.1V	Rated Current Amps	DCR each winding (mΩ Max)	Leakage Inductance (μH) Max	Lead diameter mm
TRF3518A-502Y-1A	5.0	1.0	207	80	1.37
TRF3518A-402Y-1A	8.0	1.0	270	120	1.37
TRF3518A-153Y-1A	15.0	1.0	430	233	1.37
TRF3518A-252Y-2A	2.5	2.0	90	42	1.37
TRF3518A-402Y-2A	4.0	2.0	95	70	1.37
TRF3518A-752Y-2A	7.5	2.0	108	74	1.37
TRF3518A-132Y-4A	1.3	4.0	29	20	1.37
TRF3518A-212Y-4A	2.1	4.0	40	35	1.37
TRF3518A-372Y-4A	3.7	4.0	38	40	1.37
TRF3518A-102Y-6A	1.0	6.0	22	19	1.37
TRF3518A-172Y-6A	1.7	6.0	32	34	1.37
TRF3518A-302Y-6A	3.0	6.0	27	35	1.37
TRF3518A-601Y-9A	0.6	9.0	12	11	1.07
TRF3518A-112Y-9A	1.1	9.0	13	12	1.07
TRF3518A-192Y-9A	1.9	9.0	17	20	1.07
TRF3518A-501Y-12A	0.5	12.0	8	8	1.22
TRF3518A-801Y-12A	0.8	12.0	8	9	1.22
TRF3518A-142Y-12A	1.4	12.0	11	18	1.22
TRF3518A-301Y-15A	0.3	15.0	5	6	1.37
TRF3518A-601Y-15A	0.6	15.0	6	6.5	1.37
TRF3518A-112Y-15A	1.1	15.0	8	13.7	1.37

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

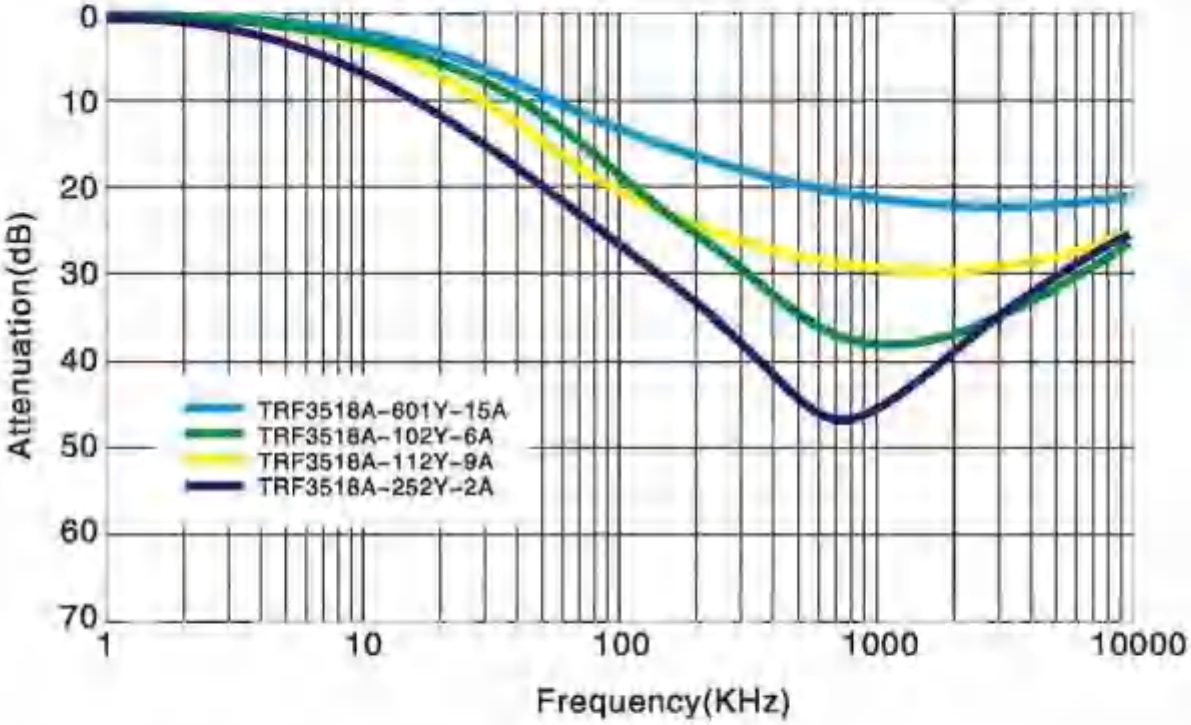
DIMENSIONS IN:mm



- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi-Pot 1500Vac winding to winding 3S.
- Inductance Testing: 15.75KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

Typical Common Mode Attenuation:



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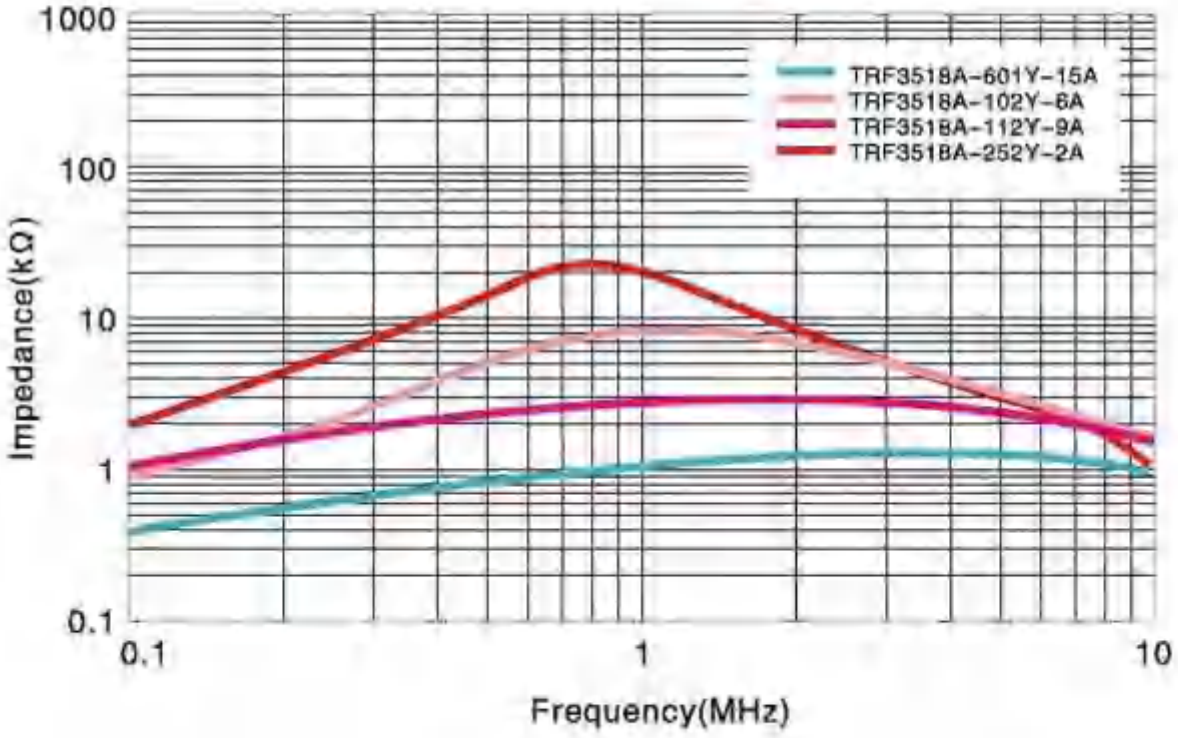


THROUGH-HOLE TOROIDAL COMMON MODE CHOKES

TRF3622 SERIES

FEATURES:

- 2.2A to 15A ratings
- 1.2mH to 16mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

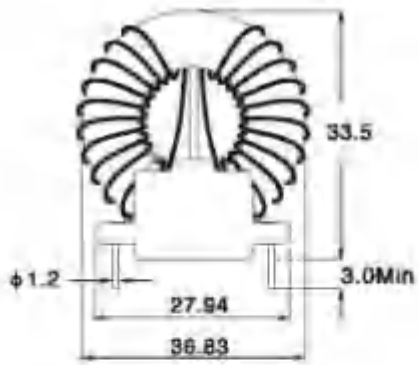
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment II accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit

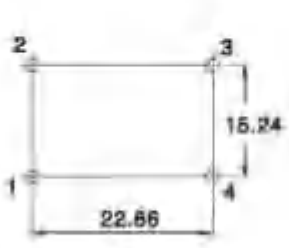
ELECTRICAL CHARACTERISTICS:

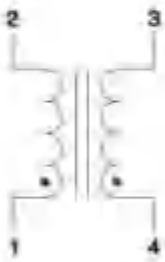
Part Number	Inductance (mH Min.) 10KHz,0.1V	Rated Current Amps	DCR each winding (Ohms Max)	Leakage Inductance (μ H) Type
TRF3622-163Y	16.0	2.2	0.40	180
TRF3622-103Y	10.0	3.0	0.35	130
TRF3622-802Y	8.0	3.5	0.143	85
TRF3622-402Y	4.0	5.4	0.105	45
TRF3622-302Y	3.0	6.5	0.054	35
TRF3622-202Y	2.0	8.7	0.020	25
TRF3622-122Y	1.2	15	0.010	12

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm







- Inductance tolerance: In +50% -30%
- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi-Pot:2500Vac winding to winding 3S.
- Inductance Testing: 10KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max.10ms: 20X IDC
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃℃ to +105℃℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

THROUGH-HOLE TOROIDAL COMMON MODE CHOKES

TRF3622A SERIES

FEATURES:

- Excellent Mechanical Strength
- High Reliability and varied Plastic base
- Low resistance and temperature rise
- UL1446 Class B (130℃) Insulation System

COMMON APPLICATIONS:

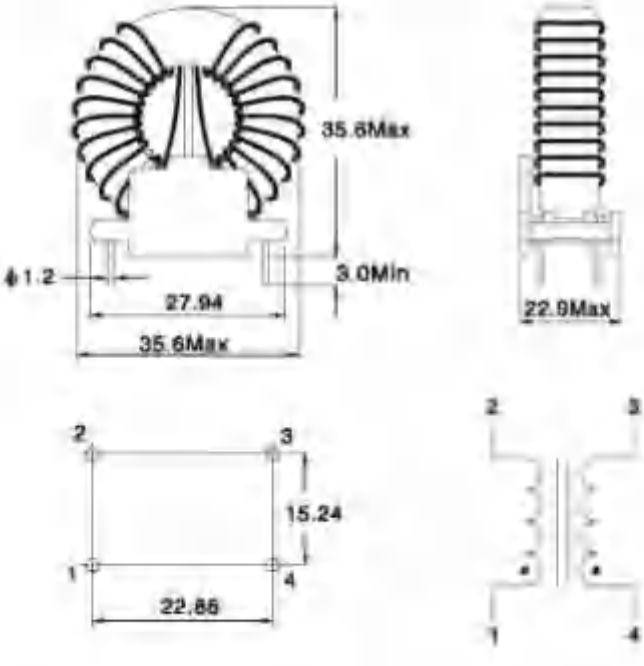
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Eliminating of electromagnetic noise of power and signal circuit.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH Min.) 15.75KHz,0.1V	Rated Current Amps	DCR each winding (mΩ Max)	Leakage Inductance (uH) Max	Lead diameter nom
TRF3622A-752Y-1A	7.5	1	270	90	1.37
TRF3622A-133Y-1A	13	1	415	190	1.37
TRF3622A-382Y-2A	3.8	2	106	48	1.37
TRF3622A-652Y-2A	6.5	2	145	98	1.37
TRF3622A-192Y-4A	1.9	4	38	26	1.37
TRF3622A-332Y-4A	3.3	4	55	45	1.37
TRF3622A-152Y-6A	1.5	6	29	21	1.37
TRF3622A-262Y-6A	2.6	6	40	41	1.37
TRF3622A-901Y-9A	0.9	9	14	17	1.07
TRF3622A-152Y-9A	1.5	9	13	15	1.07
TRF3622A-701Y-12A	0.7	12	11	14	1.22
TRF3622A-122Y-12A	1.2	12	11	14	1.22
TRF3622A-501Y-15A	0.5	15	7	8.7	1.37
TRF3622A-801Y-15A	0.8	15	7	10	1.37

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

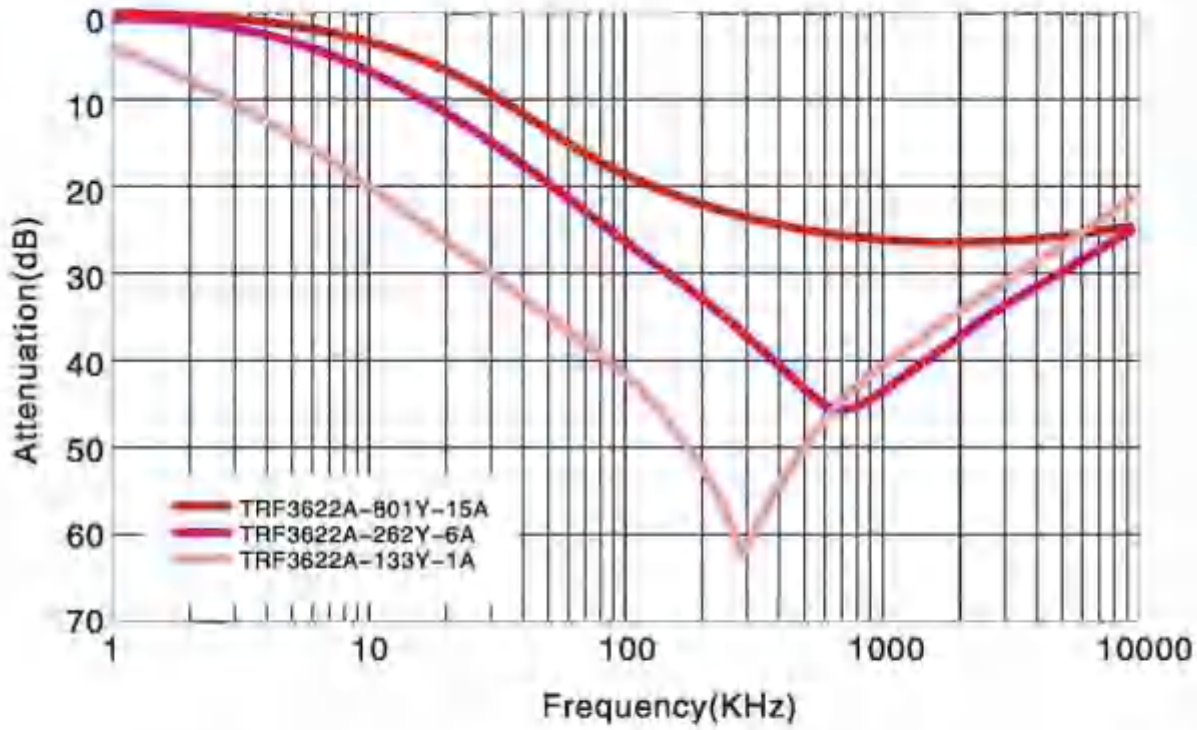
DIMENSIONS IN:mm



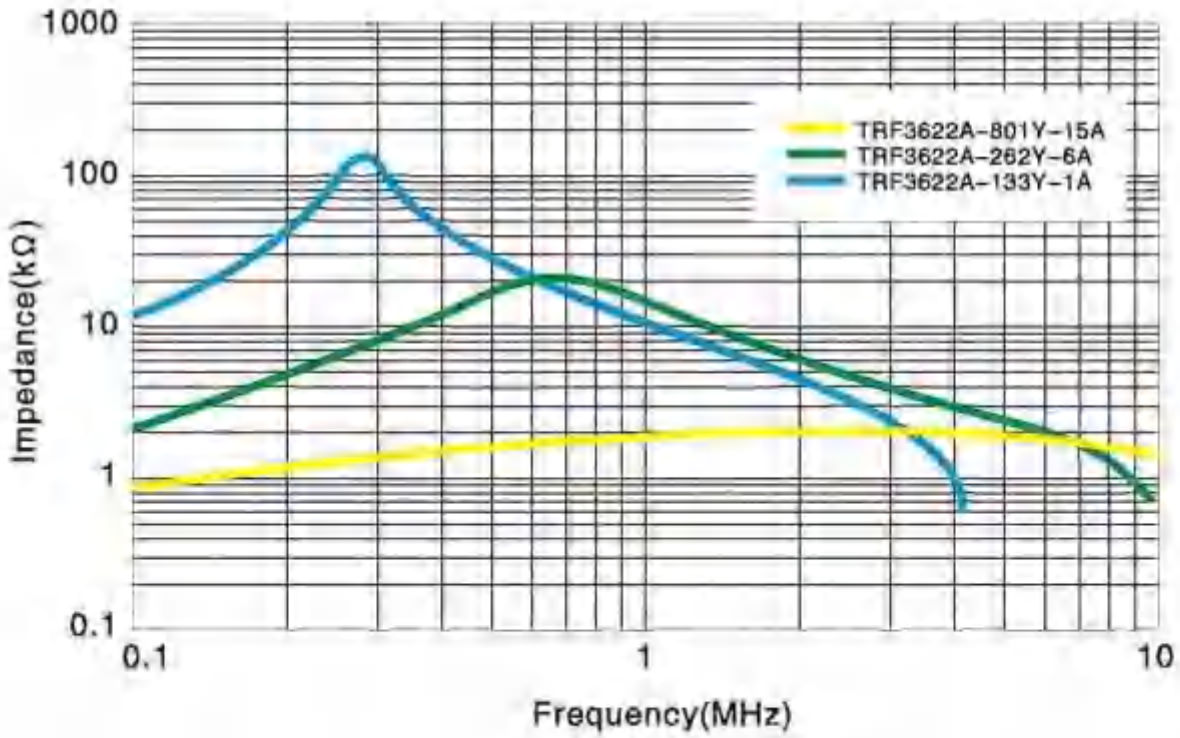
- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi-Pot 1500Vac winding to winding 3S.
- Inductance Testing: 15.75KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

Typical Common Mode Attenuation:



Typical Impedacne:



COMMON MODE POWER LINE CHOKE

TRF4015VT Series

FEATURES:

- Very high permeability nanocrystalline core material
- Improved isolation through plastic case and winding spacer
- High and stable inductance values at high temperatures
- High rated currents
- Broadband suppression
- Small size

APPLICATIONS:

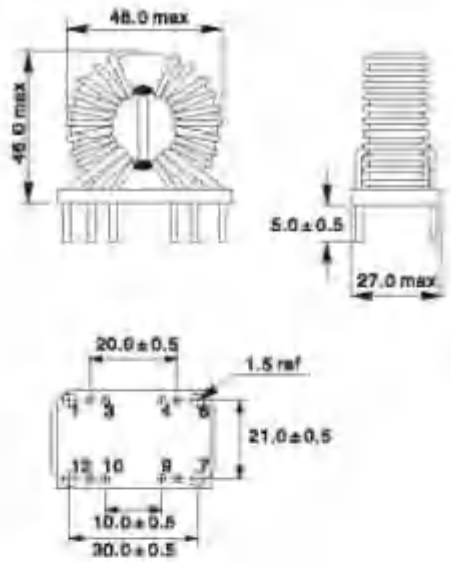
- Power electronics
- Power line in– and output filter
- Suppression for common mode noise
- Radio interference suppression in motors

ELECTRICAL CHARACTERISTICS:

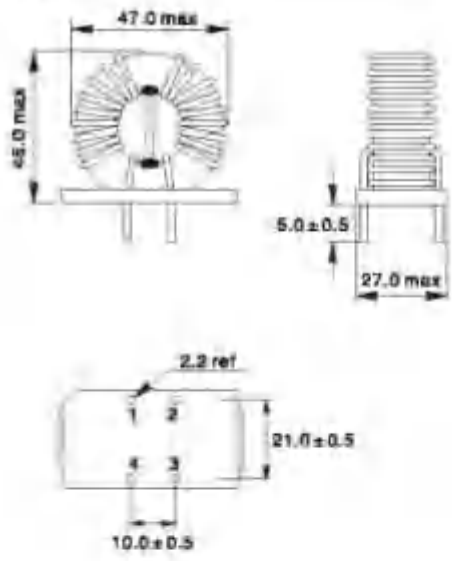
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)	Dimensions
TRF4015VT-152Y	1.5	-30 to +50	38	2.3	1
TRF4015VT-302Y	3		26	4.5	2
TRF4015VT-502Y	5		21	6.5	2
TRF4015VT-702Y	7		15	9.5	2
TRF4015VT-902Y	9		13	15	2
TRF4015VT-143Y	14		8	27	2
TRF4015VT-203Y	20		6	45	2
TRF4015VT-353Y	35		5	60	2

PHYSICAL CHARACTERISTICS:

Dimensions 1



Dimensions 2



Winding

Notes:

Rated voltage.....250Vac

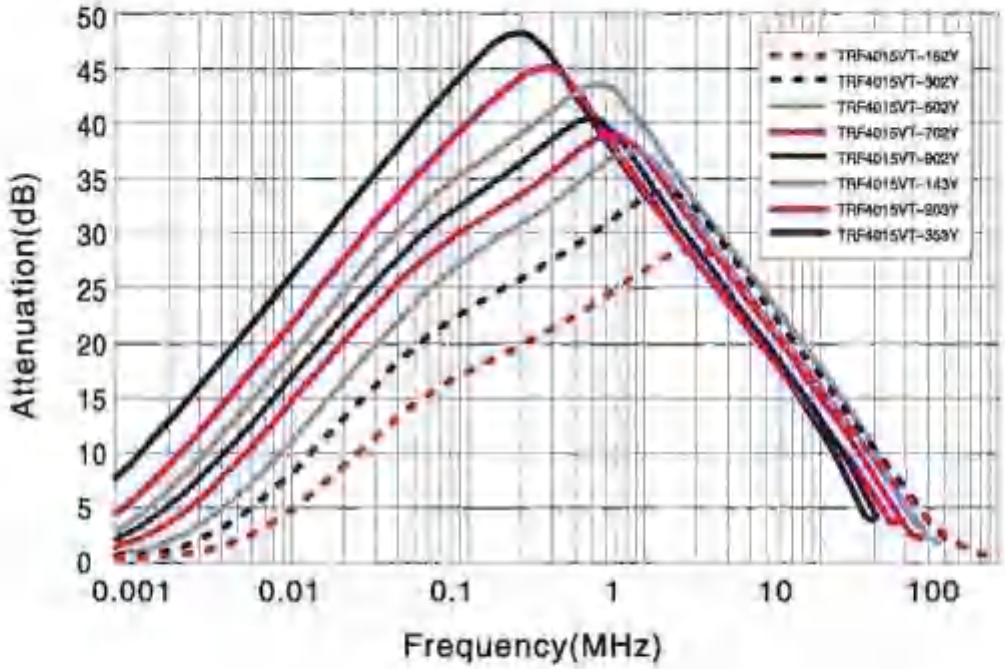
Frequency.....50/60Hz

Insulation test voltage.....1500V

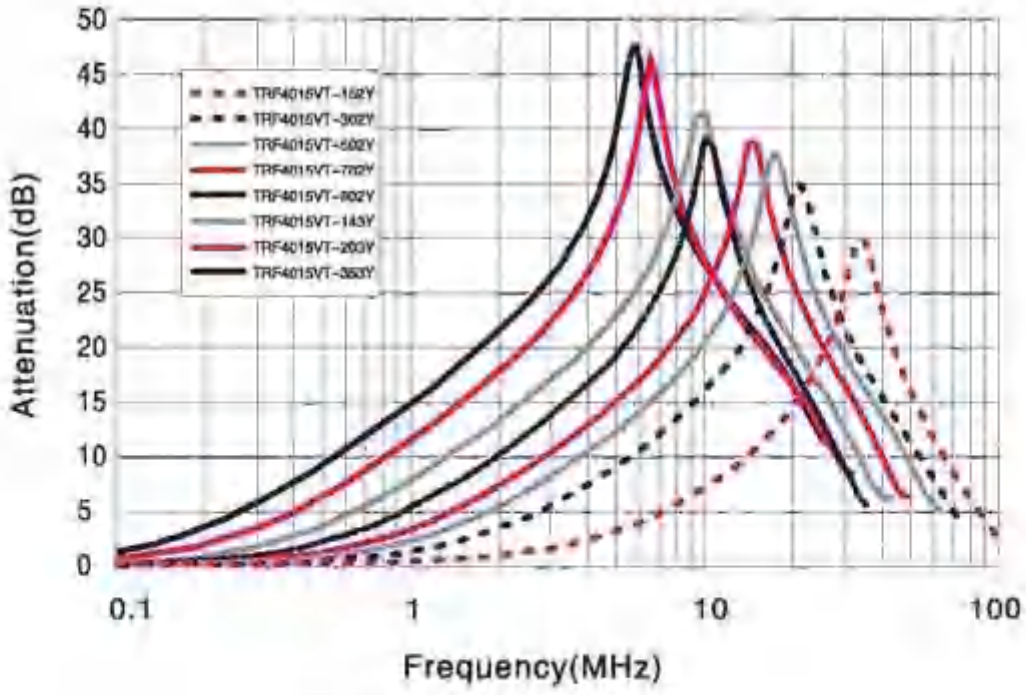
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

INSERTION LOSS COMMON MODE



INSERTION LOSS DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

TRF4016VT SERIES

FEATURES:

- With this product you can achieve high suppression of asymmetric interferences even at low frequency ranges
- Broadband filtering because of low capacitance winding technique
- Very compact design
- Highest possible current with small sizes
- High interference compression asymmetric interference rates also at low frequence range

APPLICATIONS:

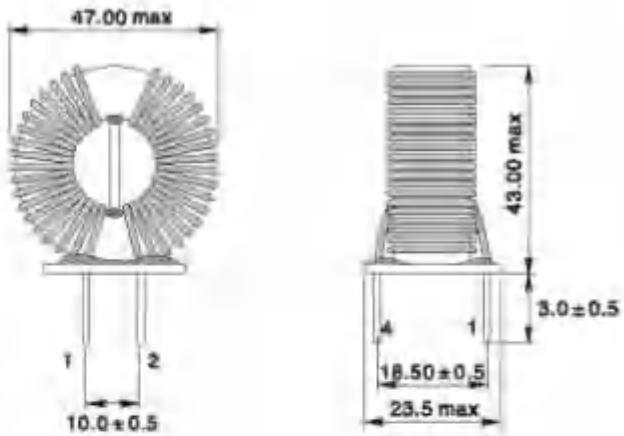
- Power electronics
- Suppression for common mode noise
- Radio interference suppression in motors
- Power line input and output filter

ELECTRICAL CHARACTERISTICS:

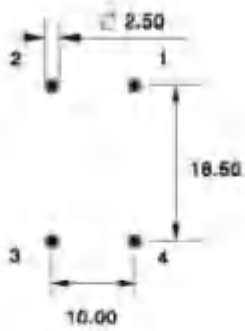
Part Number	L (mH)	Tolerance (%)	Rated Current (A)	RDC max. (mΩ)
TRF4016VT-501N	0.5	±30	35	2.3
TRF4016VT-102N	1.0		25	4.5
TRF4016VT-132N	1.3		20	6.2
TRF4016VT-182N	1.8		14	9.5

PHYSICAL CHARACTERISTICS:

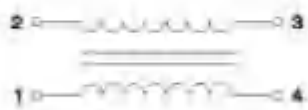
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

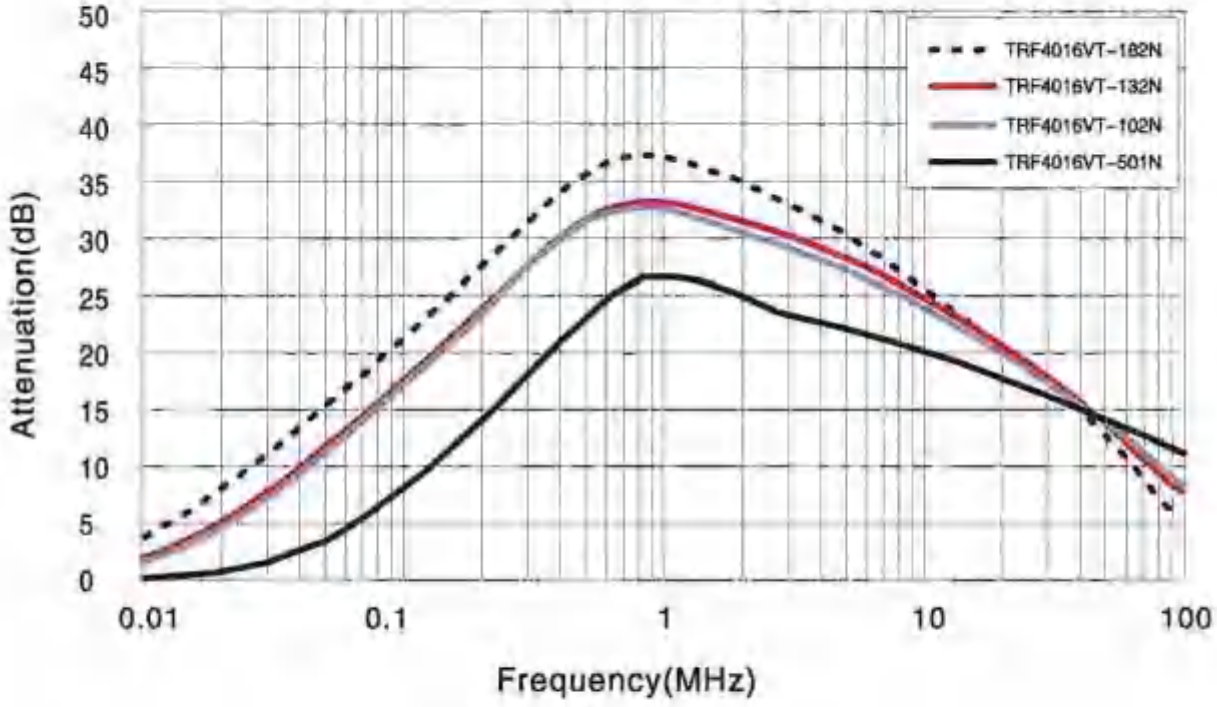
Frequency.....50/60Hz

Insulation test voltage.....1500V

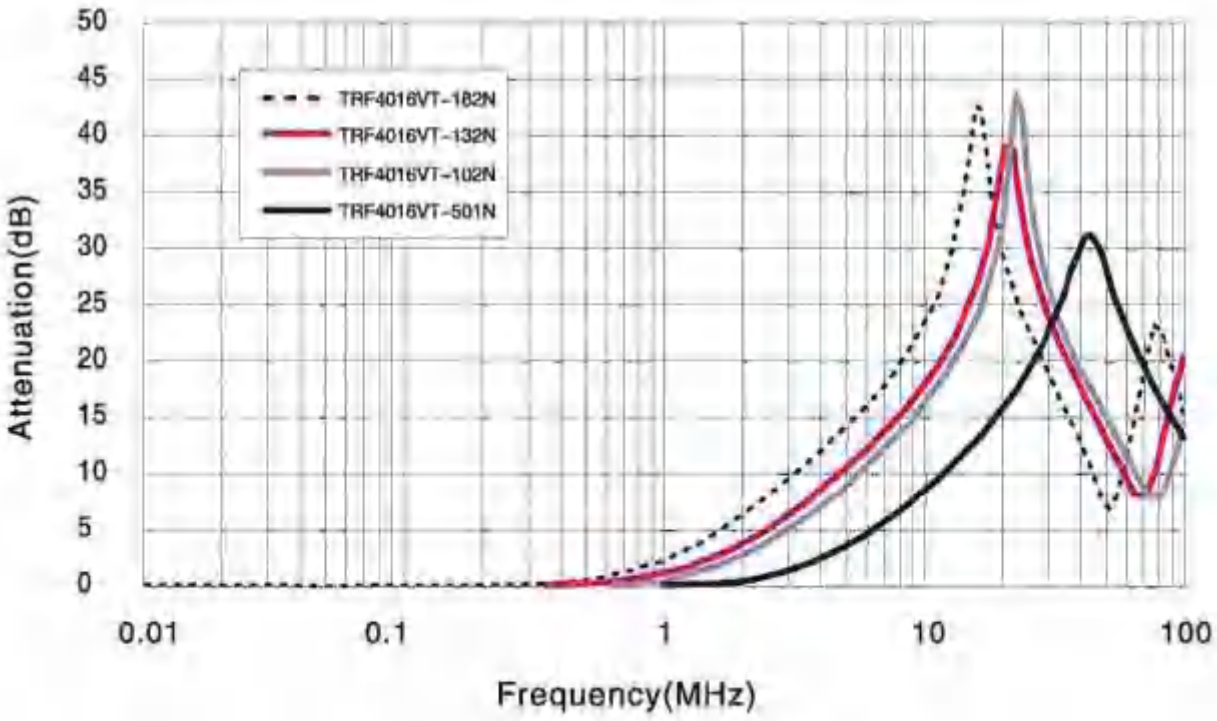
Operating temperature.....-40 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



THROUGH-HOLE TOROIDAL COMMON MODE CHOKES

TRF4525 SERIES

FEATURES:

- 1.8A to 15A ratings
- 3.0mH to 56mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

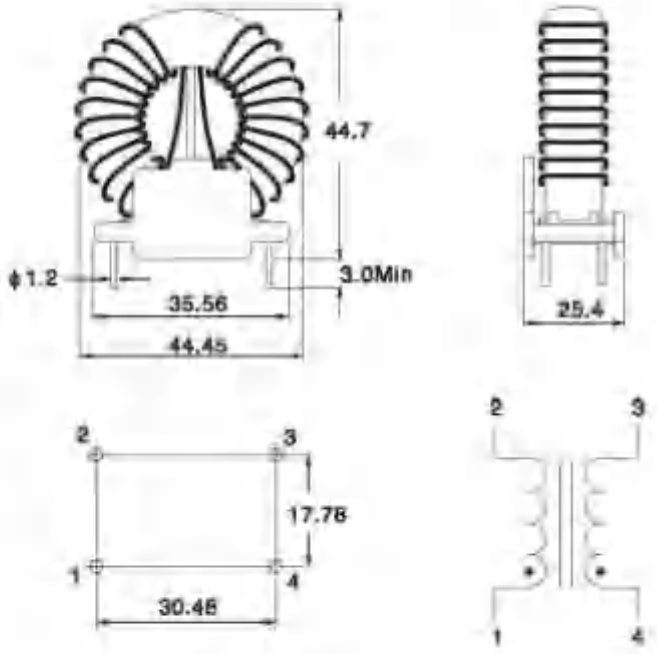
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment It accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH Min.) 10KHz,0.1V	Rated Current Amps	DCR each winding (Ohms Max)	Leakage Inductance (μ H) Type
TRF4525-563Y	56.0	1.8	1.0	550
TRF4525-333Y	33.0	2.0	0.730	300
TRF4525-223Y	22.0	3.2	0.352	280
TRF4525-153Y	15.0	4.2	0.132	150
TRF4525-123Y	12.0	6.8	0.098	95
TRF4525-502Y	5.0	12	0.035	50
TRF4525-302Y	3.0	15	0.009	20

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



- Inductance tolerance: in +50% -30%
- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi-Pot 2500Vac winding to winding 3S.
- Inductance Testing: 10KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 200% IDC
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃℃ to +105℃℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

THROUGH-HOLE TOROIDAL COMMON MODE CHOKES

TRF4525A SERIES

FEATURES:

- Excellent Mechanical Strength
- High Reliability and varied Plastic base
- Low resistance and temperature rise
- UL1446 Class B (130℃) insulation System

COMMON APPLICATIONS:

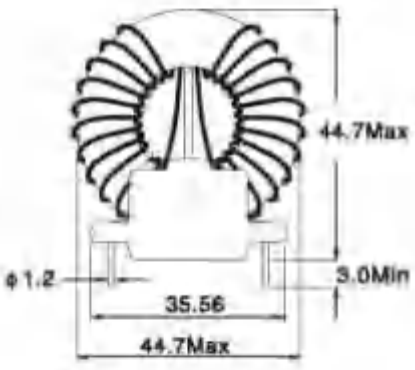
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Eliminating of electromagnetic noise of power and signal circuit.

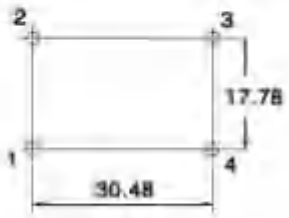
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH Min.) 15.75KHz,0.1V	Rated Current Amps	DCR each winding (mΩ Max)	Leakage Inductance (μH) Max	Lead diameter mm
TRF4525A-323Y-1A	32.0	1	650	485	1.37
TRF4525A-563Y-1A	56.0	1	900	780	1.37
TRF4525A-163Y-2A	16.0	2	240	210	1.37
TRF4525A-283Y-2A	28.0	2	330	410	1.37
TRF4525A-802Y-4A	8.0	4	61	57.5	1.27
TRF4525A-143Y-4A	14.0	4	120	180	1.37
TRF4525A-662Y-6A	6.6	6	46	49	1.37
TRF4525A-113Y-6A	11.5	6	89	140	1.37
TRF4525A-402Y-9A	4.0	9	26	37	1.07
TRF4525A-702Y-9A	7.0	9	45	104	1.07
TRF4525A-302Y-12A	3.0	12	22	40	1.22
TRF4525A-522Y-12A	5.2	12	25	47	1.22
TRF4525A-252Y-15A	2.5	15	19	42	1.37
TRF4525A-442Y-15A	4.4	15	17	48	1.37

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

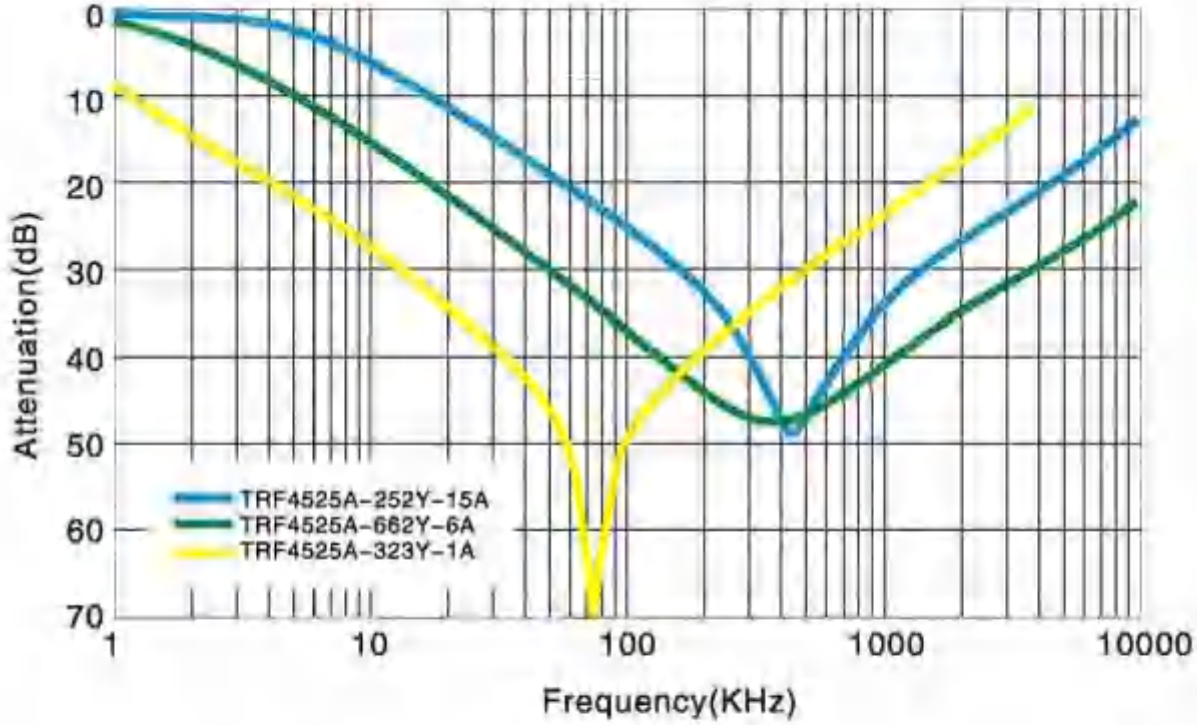




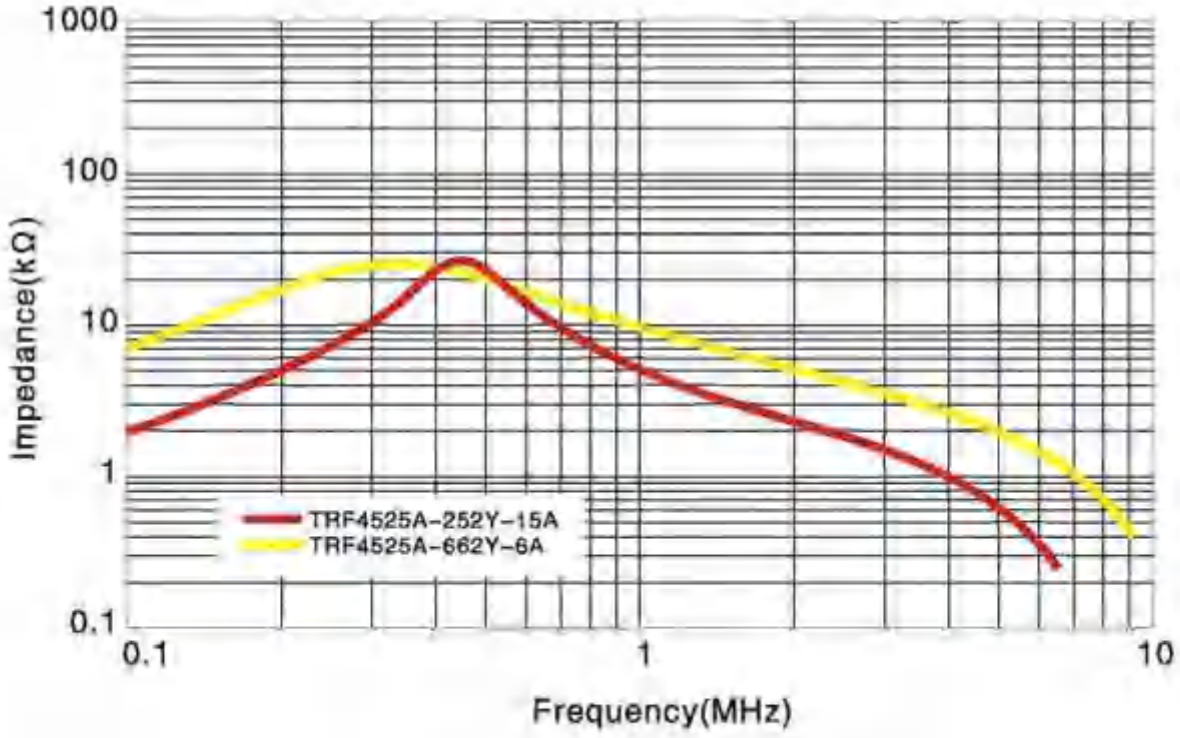
- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi-Pot 1500Vac winding to winding 3S
- Inductance Testing: 15.75KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

Typical Common Mode Attenuation:



Typical Impedacne:



THROUGH-HOLE TOROIDAL COMMON MODE CHOKES

TRF5230 SERIES

FEATURES:

- 1.5A to 18A ratings
- 6.0mH to 120mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

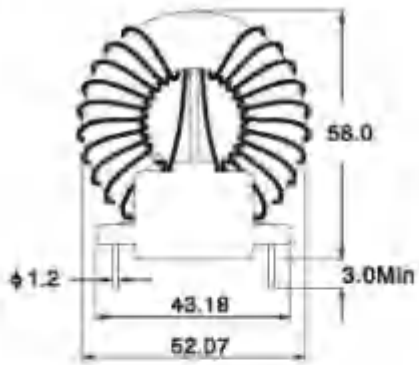
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment it accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

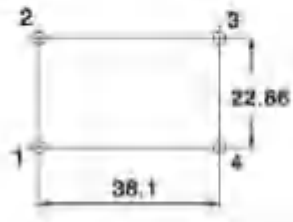
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH Min.) 10KHz,0.1V	Rated Current Amps	DCR each winding (Ohms Max)	Leakage inductance (μ H) Type
TRF5230-124Y	120.0	1.5	1.15	900
TRF5230-723Y	72..0	2.6	0.50	600
TRF5230-333Y	33.0	4.2	0.124	450
TRF5230-223Y	22.0	6.0	0.117	180
TRF5230-153Y	15.0	9.0	0.060	180
TRF5230-103Y	10.0	15	0.033	120
TRF5230-602Y	6.0	18	0.028	100

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm





- Inductance tolerance in +50% -30%
- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi-Pot 2500Vac winding to winding 3S.
- Inductance Testing: 10KHz,0.1V HP4284A
- RDC:QuadTech 1680 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃℃ to +105℃℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

THROUGH-HOLE TOROIDAL COMMON MODE CHOKES

TRF5230A SERIES

FEATURES:

- Excellent Mechanical Strength
- High Reliability and varied Plastic base
- Low resistance and temperature rise
- UL1446 Class B (130℃) Insulation System

COMMON APPLICATIONS:

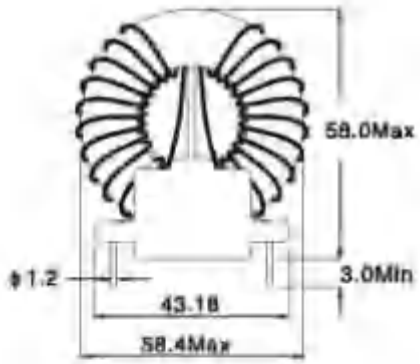
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDP Televisions
- Eliminating of electromagnetic noise of power and signal circuit.

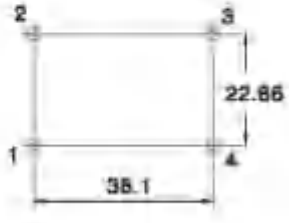
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH Min.) 15.75KHz,0.1V	Rated Current Amps	DCR each winding (mΩ Max)	Leakage Inductance (μH) Max	Lead diameter nom
TRF5230A-723Y-1A	72	1	1150	1400	1.37
TRF5230A-124Y-1A	125	1	1150	1400	1.37
TRF5230A-363Y-2A	36	2	415	680	1.37
TRF5230A-823Y-2A	82	2	415	750	1.37
TRF5230A-193Y-4A	19	4	150	350	1.37
TRF5230A-323Y-4A	32	4	158	376	1.37
TRF5230A-153Y-6A	15	6	114	275	1.37
TRF5230A-263Y-6A	26	6	119	330	1.37
TRF5230A-103Y-9A	10	9	57	190	1.07
TRF5230A-173Y-9A	17	9	62	220	1.07
TRF5230A-752Y-12A	7.5	12	42	140	1.22
TRF5230A-133Y-12A	13	12	49	155	1.22
TRF5230A-802Y-15A	8	15	30	111	1.37
TRF5230A-103Y-15A	10	15	29	122	1.37

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

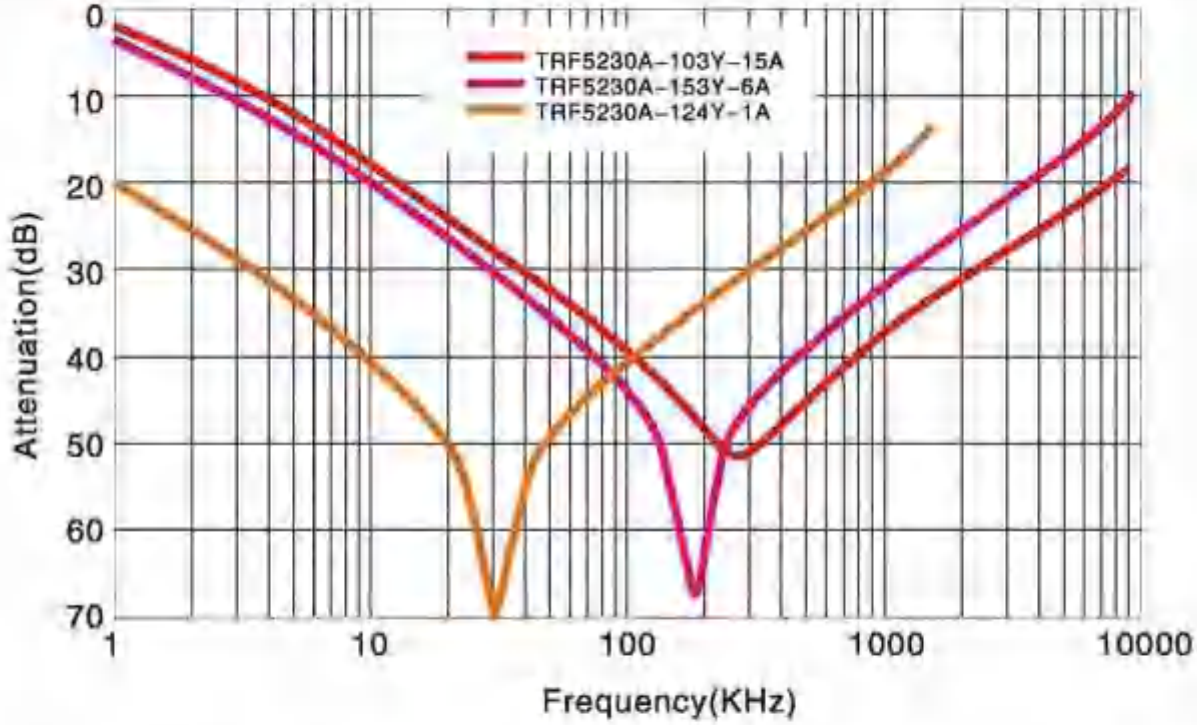




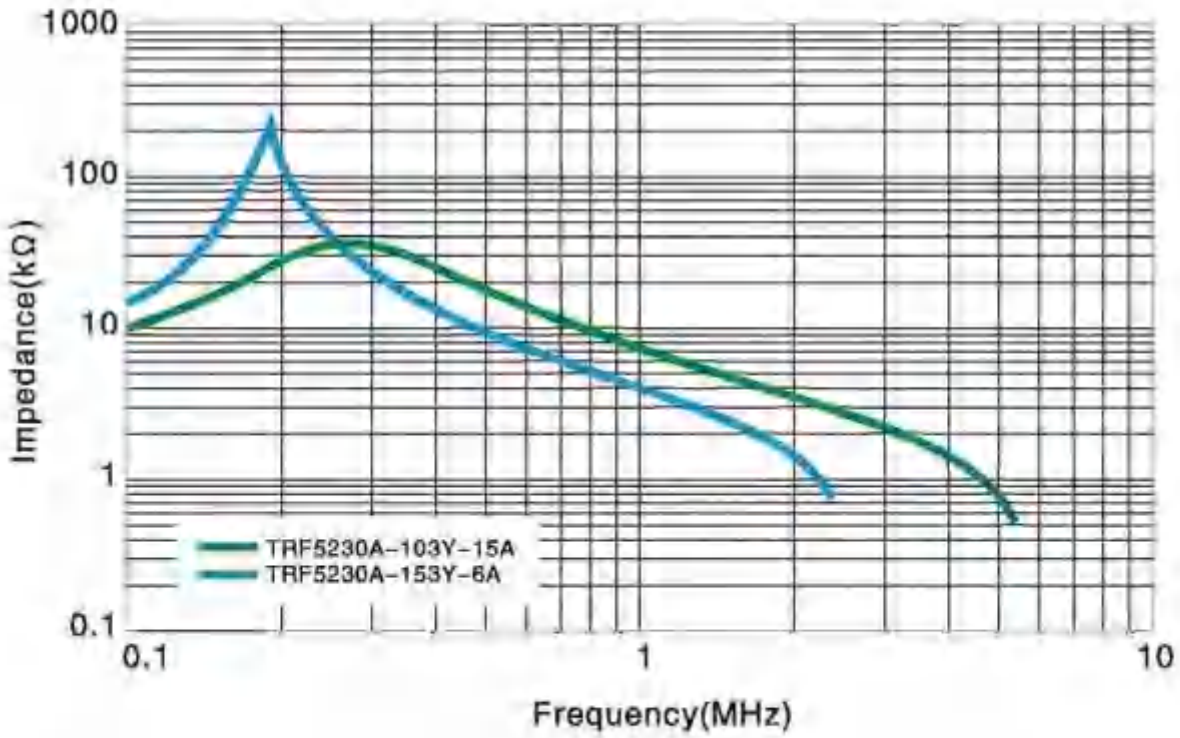
- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi-Pot 1500Vac winding to winding 3S
- Inductance Testing: 15.75KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

Typical Common Mode Attenuation:



Typical Impedacne:



THROUGH-HOLE CURRENT-COMPENSATED CHOKES

TRF102/202 SERIES

FEATURES:

- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

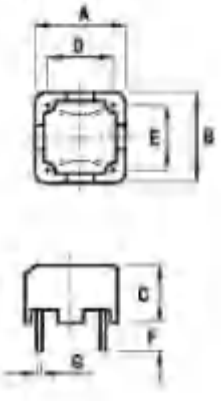
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance mH	Test Freq KHz	DCR (mΩ)Max	IDC (A)Max
TRF102/202-123Y	12	10	1275	0.3
TRF102/202-452Y	4.5	10	385	0.6
TRF102/202-302Y	3	10	205	1.0
TRF102/202-222Y	2.2	10	150	1.5
TRF102/202-102Y	1	10	70	2

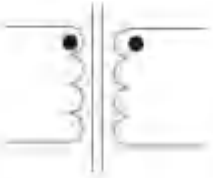
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

TRF102



TRF202

P/N	TRF102	TRF202
A	14	16
B	14	8.8
C	8.5	13.5
D	10	15.2
E	10	5.08
F	4	4.5
G	0.8	0.8



- Inductance tolerance..... +50% -30%
- Max operating voltage..... 250V at 40℃
- IDC Max..... rating AC/DC current A @40℃
- Hi-Pot..... 1500Vac winding to winding 3S
- Inductance Testing..... 10KHz 0.1V HP4284A
- Operating temperature..... -40℃ to +105℃
- Storage Temperature..... -40℃ to +105℃

Note:All specifications subject to change without notice.

THROUGH-HOLE CURRENT-COMPENSATED CHOKES

TRF112/212 SERIES

FEATURES:

- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

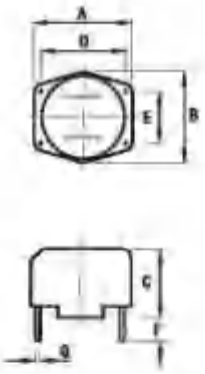
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

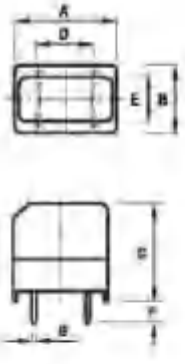
Part Number	Inductance mH	Test Freq KHz	DCR (mΩ)Max	IDC (A)Max
TRF112/212-383Y	39	10	1460	0.4
TRF112/212-273Y	27	10	1250	0.5
TRF112/212-153Y	15	10	465	0.6
TRF112/212-103Y	10	10	370	0.8
TRF112/212-682Y	6.8	10	245	1.2
TRF112/212-332Y	3.3	10	135	1.5
TRF112/212-182Y	1.8	10	75	2
TRF112/212-102Y	1	10	35	3.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

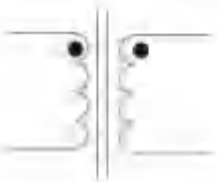
TRF112



TRF212



P/N	TRF112	TRF212
A	17.7	19.5
B	17.2	13.5
C	13.5	20
D	15	15
E	10	10
F	4	4
G	0.8	0.8



- Inductance tolerance..... +50% -30%
- Max operating voltage..... 250V at 40℃
- IDC Max..... rating AC/DC current A @40℃
- Hi-Pot..... 1500Vac winding to winding 3S
- Inductance Testing..... 10KHz 0.1V HP4284A
- Operating temperature..... -40℃ to +105℃
- Storage Temperature..... -40℃ to +105℃

Note:All specifications subject to change without notice.

THROUGH-HOLE CURRENT-COMPENSATED CHOKES

TRF114/214 SERIES

FEATURES:

- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

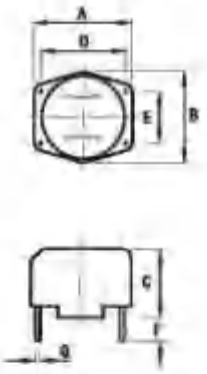
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

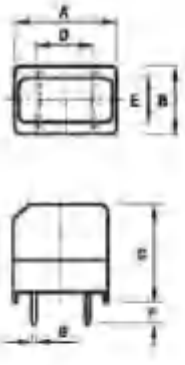
Part Number	Inductance mH	Test Freq KHz	DCR (mΩ)Max	IDC (A)Max
TRF114/214-473Y	47	10	1750	0.3
TRF114/214-393Y	39	10	810	0.5
TRF114/214-273Y	27	10	500	0.8
TRF114/214-153Y	15	10	375	1
TRF114/214-103Y	10	10	200	1.2
TRF114/214-682Y	6.8	10	130	1.5
TRF114/214-332Y	3.3	10	75	2.5
TRF114/214-202Y	2	10	55	3
TRF114/214-152Y	1.5	10	35	4

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

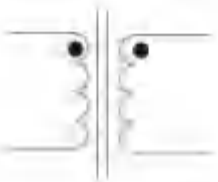
TRF114



TRF214



P/N	TRF114	TRF214
A	22.5	23
B	21.5	15.5
C	15.2	25
D	20	10
E	12.5	12.5
F	4	4
G	0.8	0.8



- Inductance tolerance..... +50% -30%
- Max operating voltage..... 250V at 40℃
- IDC Max..... rating AC/DC current A @40℃
- Hi-Pot..... 1500Vac winding to winding 3S
- Inductance Testing..... 10KHz 0.1V HP4284A
- Operating temperature..... -40℃ to +105℃
- Storage Temperature..... -40℃ to +105℃

Note:All specifications subject to change without notice.

THROUGH-HOLE CURRENT-COMPENSATED CHOKES

TRF122/222 SERIES

FEATURES:

- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

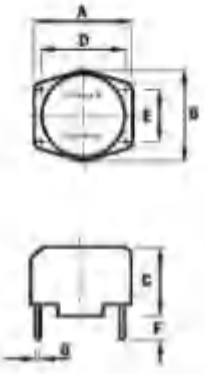
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

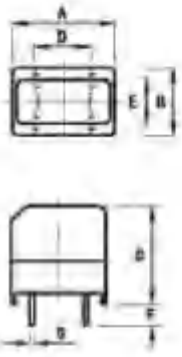
Part Number	Inductance mH	Test Freq KHz	DCR (mΩ)Max	IDC (A)Max
TRF122/222-473Y	47	10	1180	0.6
TRF122/222-393Y	39	10	1000	0.8
TRF122/222-183Y	18	10	610	1
TRF122/222-103Y	10	10	220	1.5
TRF122/222-682Y	6.8	10	147	2
TRF122/222-332Y	3.3	10	45	4

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

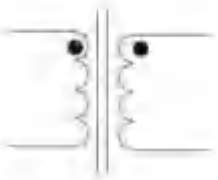
TRF122



TRF222



P/N	TRF122	TRF222
A	28	27
B	27	16
C	16.5	30
D	26	12.8
E	15	15
F	4	0.8
G	0.8	4



- Inductance tolerance..... +50% -30%
- Max operating voltage..... 250V at 40℃
- IDC Max..... rating AC/DC current A @40℃
- Hi-Pot..... 1500Vac winding to winding 3S
- Inductance Testing..... 10KHz 0.1V HP4284A
- Operating temperature..... -40℃ to +105℃
- Storage Temperature..... -40℃ to +105℃

Note:All specifications subject to change without notice.

THROUGH-HOLE CURRENT-COMPENSATED CHOKES

TRF142/242 SERIES

FEATURES:

- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

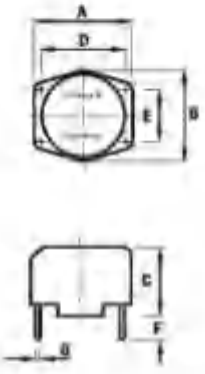
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

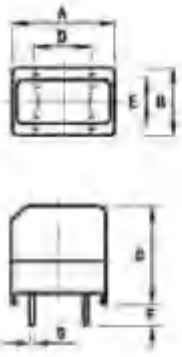
Part Number	Inductance mH	Test Freq KHz	DCR (mΩ)Max	IDC (A)Max
TRF142/242-683Y	68	10	1600	0.8
TRF142/242-333Y	33	10	810	1
TRF142/242-273Y	27	10	500	1.5
TRF142/242-682Y	6.8	10	190	2
TRF142/242-332Y	3.3	10	66	4

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

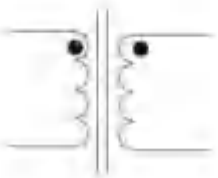
TRF142



TRF242



P/N	TRF142	TRF242
A	33.5	32
B	32.5	18
C	19.7	35
D	30	12.5
E	20	15
F	4.5	4
G	0.8	0.8



- Inductance tolerance..... +50% -30%
- Max operating voltage..... 250V at 40℃
- IDC Max..... rating AC/DC current A @40℃
- Hi-Pot..... 1500Vac winding to winding 3S
- Inductance Testing..... 10KHz 0.1V HP4284A
- Operating temperature..... -40℃ to +105℃
- Storage Temperature..... -40℃ to +105℃

Note:All specifications subject to change without notice.

THROUGH-HOLE CURRENT-COMPENSATED CHOKES

TRF152/252 SERIES

FEATURES:

- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

COMMON APPLICATIONS:

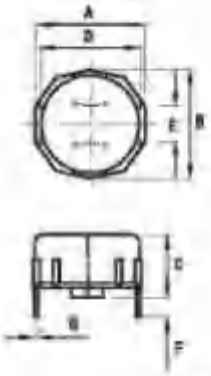
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

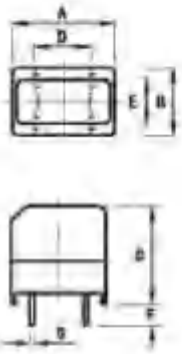
Part Number	Inductance mH	Test Freq KHz	DCR (mΩ)Max	IDC (A)Max
TRF152/252-683Y	68	10	1300	1
TRF152/252-183Y	18	10	350	2
TRF152/252-682Y	6.8	10	87	4
TRF152/252-392Y	3.9	10	41	6
TRF152/252-272Y	2.7	10	22	8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

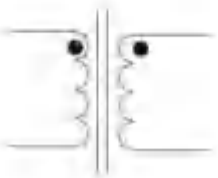
TRF152



TRF252



P/N	TRF152	TRF252
A	43	43
B	42	25
C	25	44
D	40	30.6
E	15	17.8
F	4.5	4.5
G	1.2	1.2



- Inductance tolerance..... +50% -30%
- Max operating voltage..... 250V at 40℃
- IDC Max..... rating AC/DC current A @40℃
- Hi-Pot..... 1500Vac winding to winding 3S
- Inductance Testing..... 10KHz 0.1V HP4284A
- Operating temperature..... -40℃ to +105℃
- Storage Temperature..... -40℃ to +105℃

Note:All specifications subject to change without notice.

COMMON MODE POWER LINE CHOKE

TRF102 SERIES

FEATURES:

- High resonance frequency due to special winding technique
- Approx. 0.7% stray inductance for symmetrical interference suppression
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2) and UL 1283
- RoHS-compatible

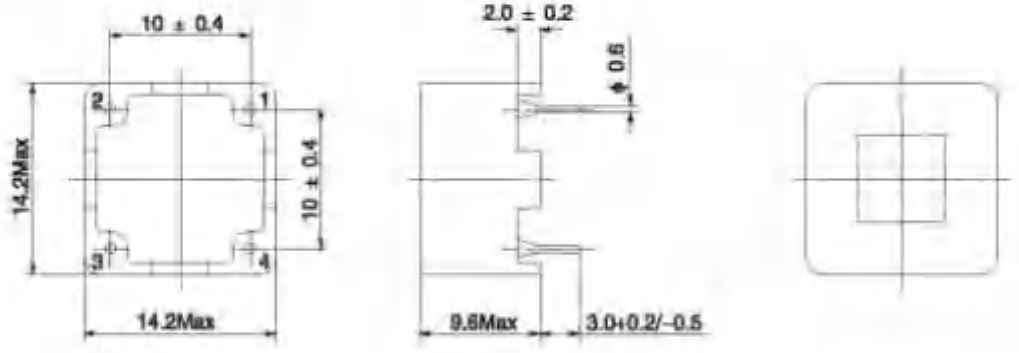
APPLICATIONS:

- Suppression of common-mode interferences
- Switch-mode power applications
- Electronic ballasts in lamps

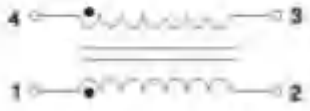
ELECTRICAL CHARACTERISTICS:

Part Number	L(mH) +50%/-30%	Lk(uH) Typ	Rated Current (A)	RDC(mΩ) Max
TRF102-112Y	1.1	6	2.0	65
TRF102-162Y	1.6	10	1.5	110
TRF102-302Y	3.0	20	1.0	220
TRF102-442Y	4.4	30	0.8	400
TRF102-123Y	12	80	0.3	1100
TRF102-223Y	22	130	0.3	1500

PHYSICAL CHARACTERISTICS:



Winding



Notes:

Rated voltage.....250Vac

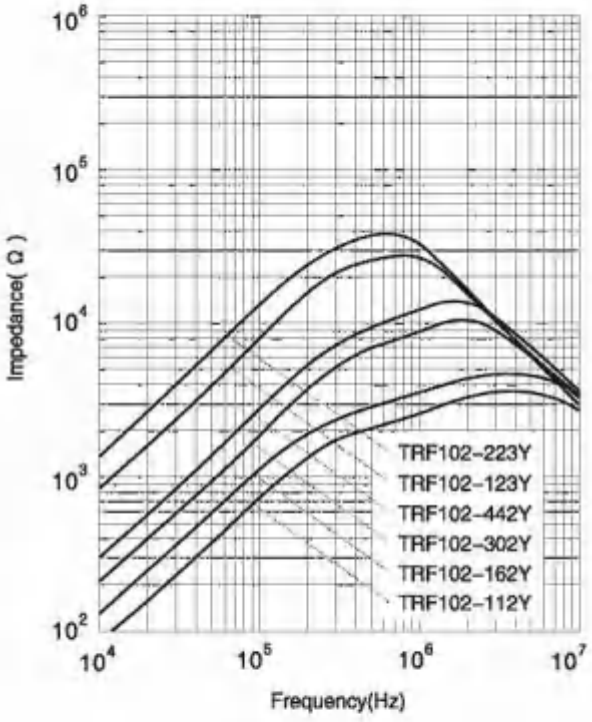
Frequency.....50/60Hz

Insulation test voltage.....1500V

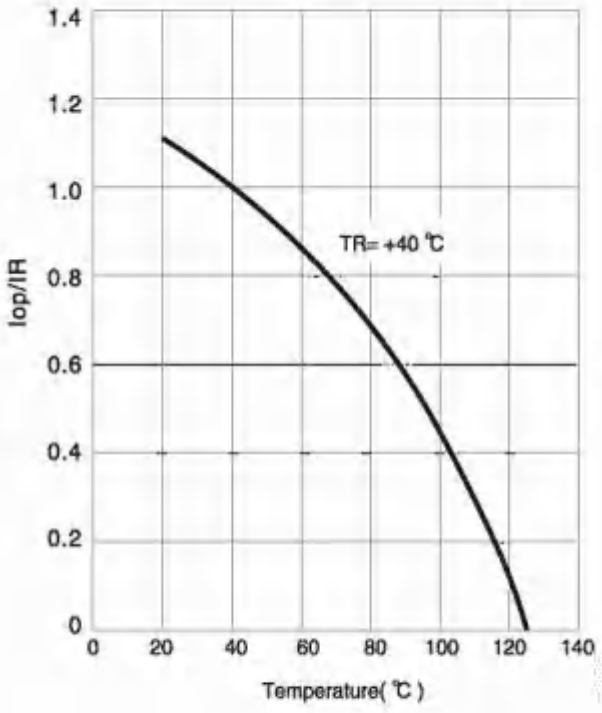
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

Impedance |Z| versus frequency F
measured with windings in parallel at +20℃
typical values



Current derating Iop/IR
versus ambient temperature TA



COMMON MODE CHOKE

UT1609 SERIES

FEATURES:

- 17.0X13.0mm Max.(LXW), 9.5mm Max. Height.
- Inductance range: 0.47mH~10mH
- Rated current range: 0.2~1.10A
- Small size and large inductance type.
- Exellent attenuation characteristics in low frequency.
- RoHS Compliance

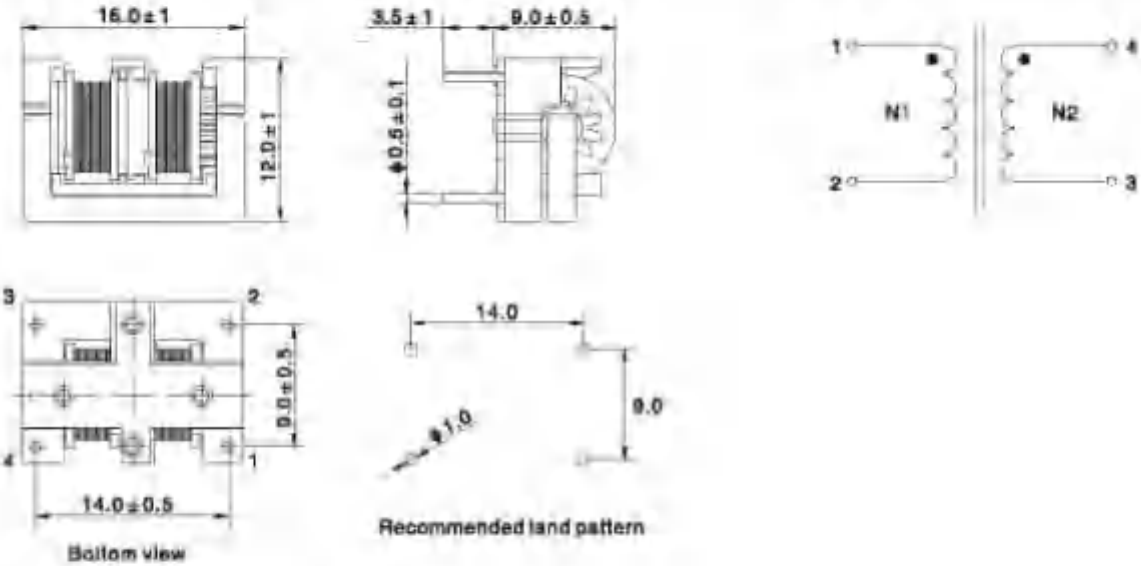
APPLICATIONS:

- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDP Televisions
- VCR,AV,OA equipment.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH) Min 1KHz	Leakage Inductance (uH) Max 100KHz	DCR (Ω) Max @20℃	Rated current (A) 50/60Hz
UT1609-471Y-1.1A	0.47	50	0.15	1.1
UT1609-681Y-0.85A	0.68	50	0.25	0.85
UT1609-102Y-0.65A	1.0	150	0.35	0.65
UT1609-222Y-0.45A	2.2	150	0.7	0.45
UT1609-392Y-0.36A	3.9	200	1.2	0.36
UT1609-472Y-0.34A	4.7	300	1.6	0.34
UT1609-682Y-0.25A	6.8	400	2.5	0.25
UT1609-103Y-0.2A	10.0	550	4.0	0.2

PHYSICAL CHARACTERISTICS:



TECHNICAL INFORMATION:

1. Rated current: The AC current at which the temperature rise is △T=45℃(Ta=20℃)
2. Please give sufficient consideration to the thick wire used when producing the P.C.B.(mounting holes φ 1.0mm)
3. Storage temperature range: -40℃ ~ +125℃.
4. Operating temperature range: -40℃ ~ +125℃ (Including coil's self temperature rise)
5. Max operating voltage:250V
6. Marking: Part number and date code
7. Resistance to soldering heat 260 ℃ for 10 seconds
8. All specifications subject to change without notice.

AC LINE FILTERS,COMMON MODE COILS

UT1711 SERIES

FEATURES:

- Ferrite material
- High permeability
- High impedance in wide frequency range due to divided bobbin
- Small gear common mode choke for low current applications
- 11mm height low profile
- Operating temperature range from -25℃ to +120℃
- UL 94V-0 flame retardant rated base and bobbin

APPLICATIONS:

- Audio-visual equipment
- Office automation equipment
- Digital appliances
- Compact power supplies

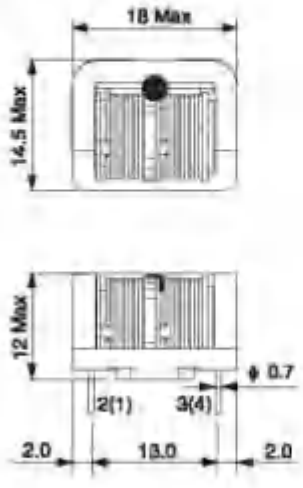
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min	Rated current (A)	DCR Max. (Ω)	Temperature rise (℃)Max
UT1711-162Y	1.6	2.0	0.09	55
UT1711-292Y	2.9	1.7	0.12	55
UT1711-432Y	4.3	1.5	0.14	55
UT1711-642Y	6.4	1.3	0.21	55
UT1711-812Y	8.1	1.1	0.27	55
UT1711-103Y	10.8	1.0	0.36	55
UT1711-163Y	16.9	0.8	0.56	55
UT1711-193Y	19.6	0.7	0.71	55
UT1711-233Y	23.7	0.6	0.78	55
UT1711-403Y	40.3	0.5	1.36	55
UT1711-593Y	59.6	0.4	2.02	55
UT1711-114Y	115.7	0.3	3.57	55

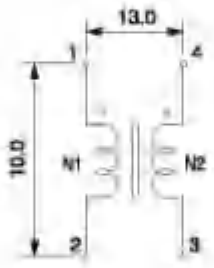
- Rated Voltage: 250 VAC
- Withstanding Voltage: 2400 VAC (2 seconds, between lines)
- Insulation Resistance: > 100 MΩ at 500 VDC (between lines)
- Inductance Measurement Condition: 10 kHz
- Thermal Class: E (120℃)
- Operating Temperature Range: -25℃ to +120℃ (include self temperature rise)

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

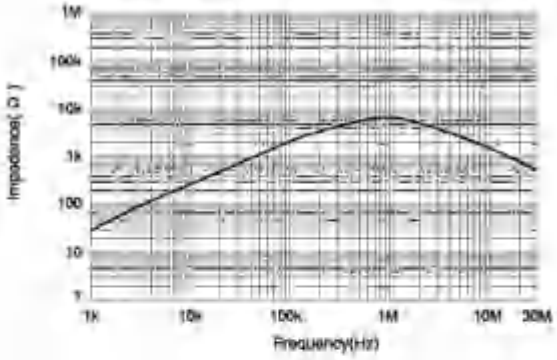
Dimensions(mm)



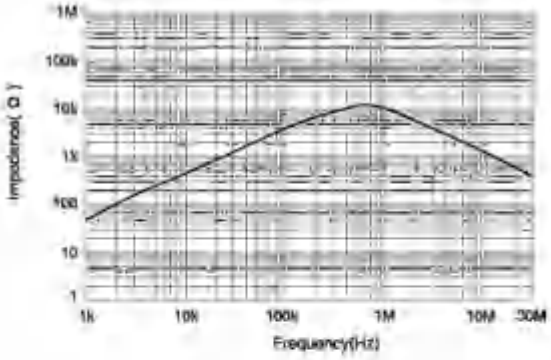
Winding



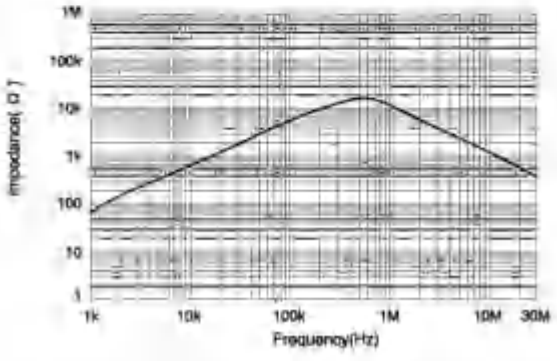
UT1711-162Y



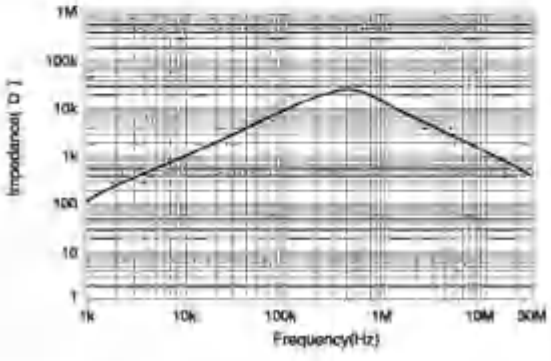
UT1711-292Y



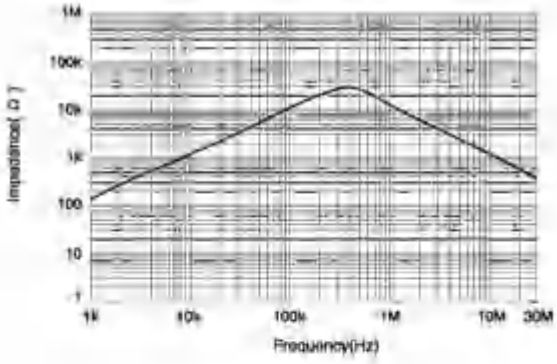
UT1711-432Y



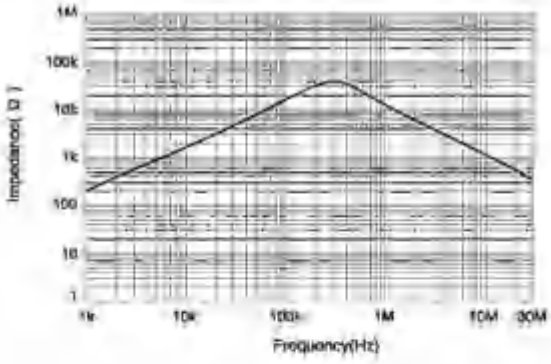
UT1711-642Y



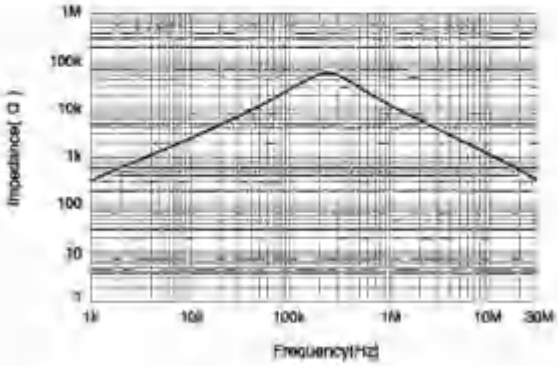
UT1711-812Y



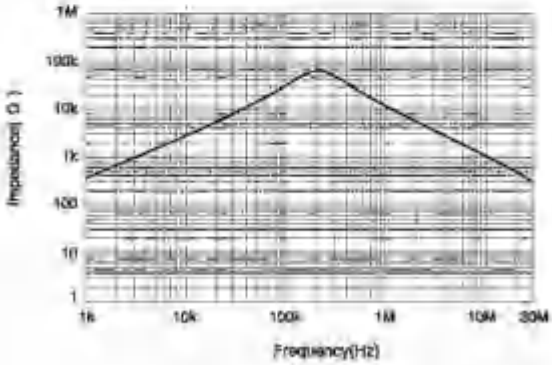
UT1711-103Y



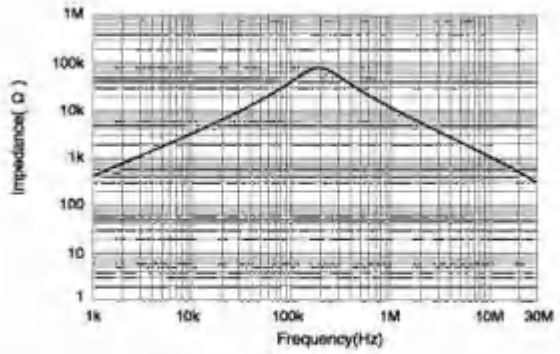
UT1711-163Y



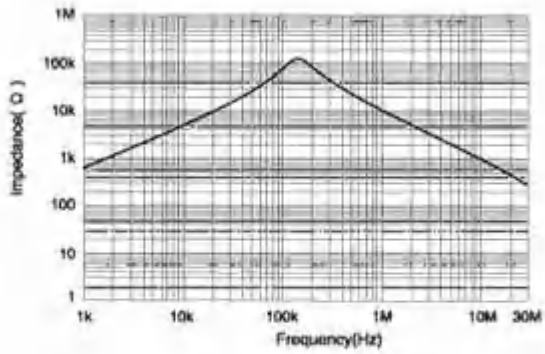
UT1711-193Y



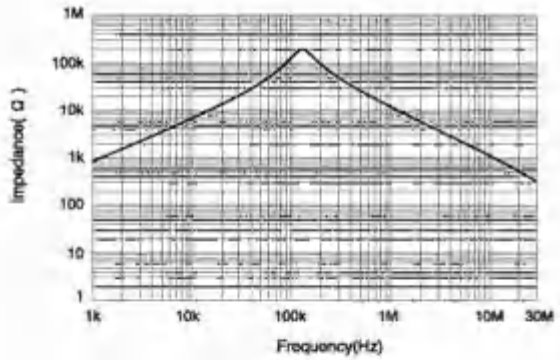
UT1711-233Y



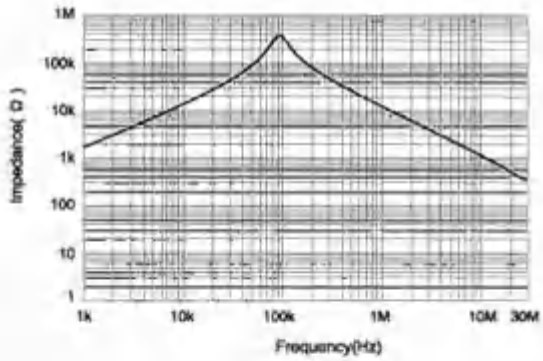
UT1711-403Y



UT1711-593Y



UT1711-114Y



AC LINE FILTERS,COMMON MODE COILS

UT1711A SERIES

FEATURES:

- Ferrite material
- High permeability
- High impedance in wide frequency range due to divided bobbin
- Small gear common mode choke for low current applications
- 11mm height low profile
- Operating temperature range from -25℃ to +120℃
- UL 94V-0 flame retardant rated base and bobbin

APPLICATIONS:

- Audio-visual equipment
- Office automation equipment
- Digital appliances
- Compact power supplies

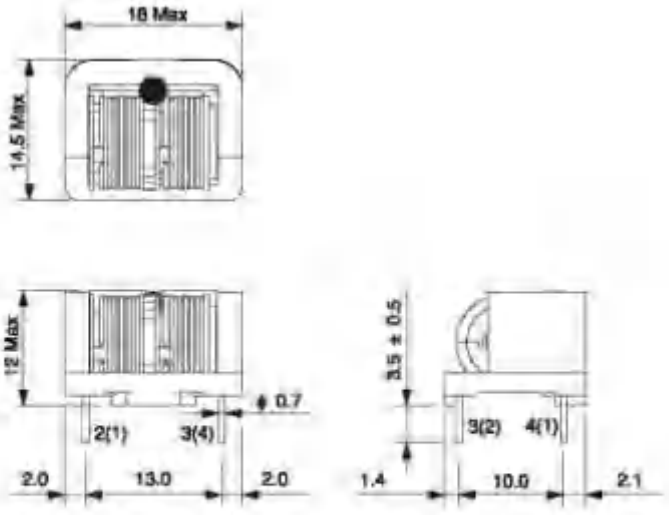
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min	Rated current (A)	DCR Max. (Ω).	Temperature rise (℃)Max
UT1711A-132Y	1.3	2.0	0.06	50
UT1711A-232Y	2.3	1.7	0.1	50
UT1711A-382Y	3.8	1.5	0.13	50
UT1711A-482Y	4.6	1.3	0.18	50
UT1711A-542Y	6.4	1.1	0.24	50
UT1711A-842Y	8.4	1.0	0.32	50
UT1711A-133Y	13.4	0.8	0.5	50
UT1711A-153Y	15.4	0.7	0.63	50
UT1711A-183Y	18.5	0.6	0.89	50
UT1711A-323Y	32.4	0.5	1.21	50
UT1711A-463Y	46.7	0.4	1.79	50
UT1711A-923Y	92.5	0.3	3.16	50

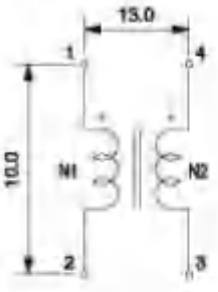
- Rated Voltage: 250 VAC
- Withstanding Voltage: 2400 VAC (2 seconds, between lines)
- Insulation Resistance: > 100 MΩ at 500 VDC (between lines)
- Inductance Measurement Condition: 10 kHz
- Thermal Class: E (120℃)
- Operating Temperature Range: -25℃ to +120℃ (include self temperature rise)

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

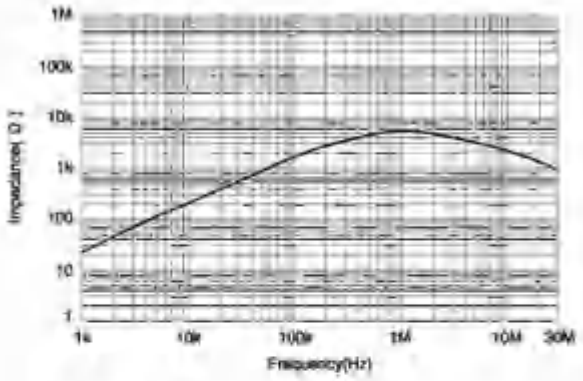
Dimensions(mm)



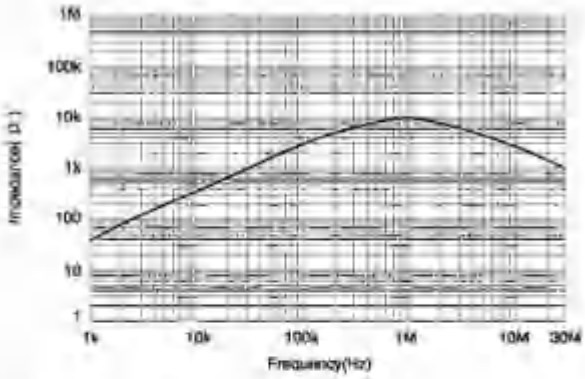
Winding



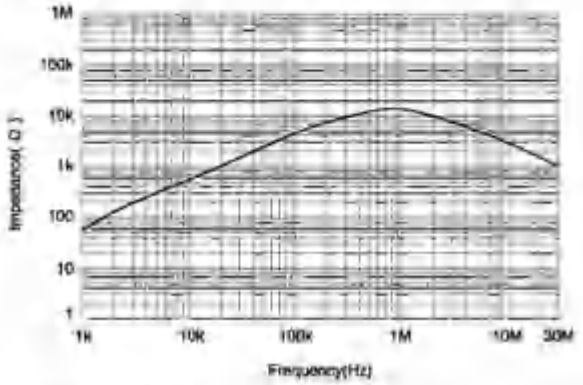
UT1711A-132Y



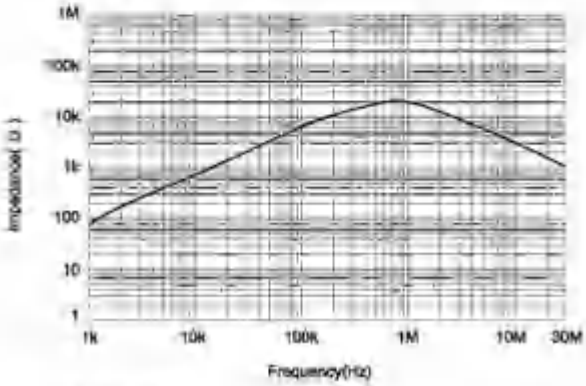
UT1711A-232Y



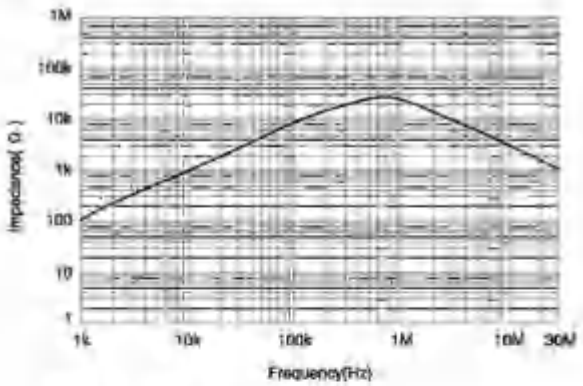
UT1711A-362Y



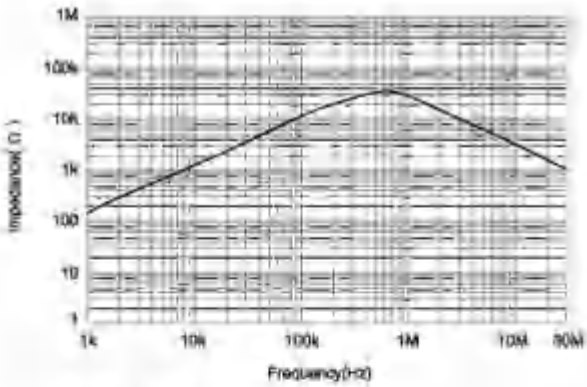
UT1711A-462Y



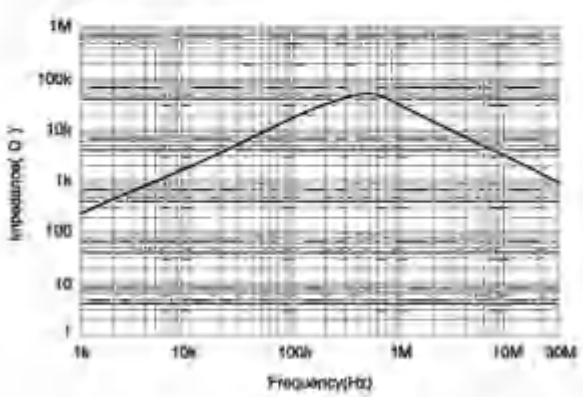
UT1711A-642Y



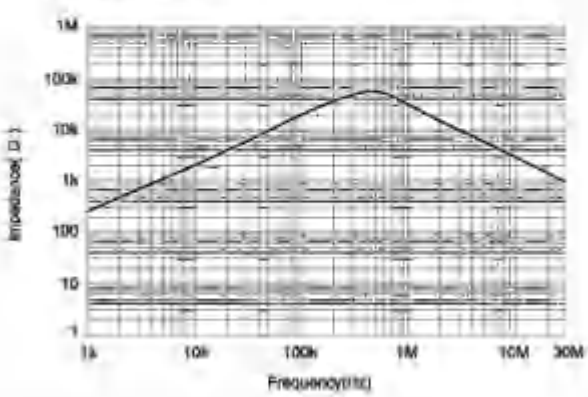
UT1711A-842Y



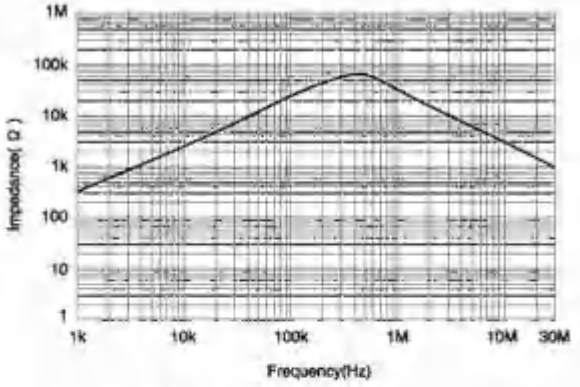
UT1711A-133Y



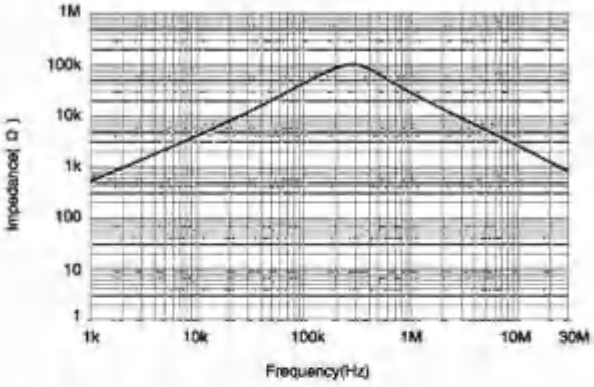
UT1711A-153Y



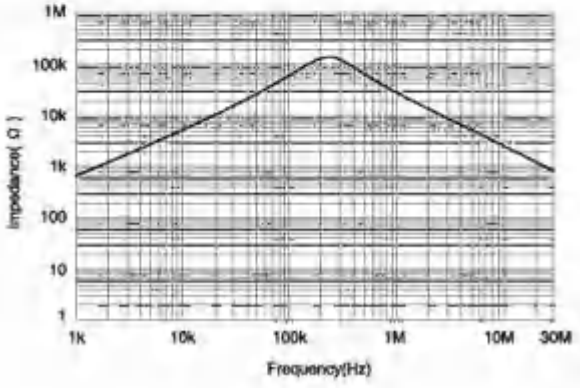
UT1711A-183Y



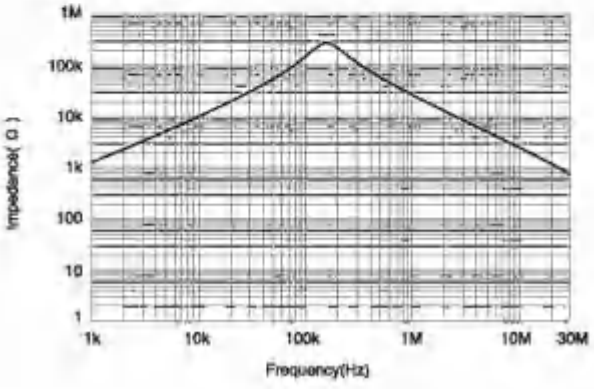
UT1711A-323Y



UT1711A-463Y



UT1711A-923Y



COMMON MODE POWER LINE CHOKE

UT2024 SERIES

FEATURES:

- Closed rectangular ferrite core
- 2 section winding for excellent high frequency performance
- 1% stray inductance for symmetrical interference suppression

APPLICATIONS:

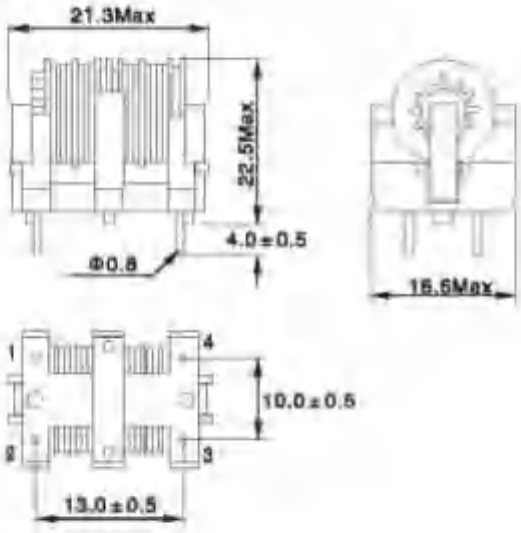
- Switch mode power supplies
- Suppression of common mode noise
- Compact switch mode power supplies
- Electronic ballast applications(LED bulb)
- Lighting

ELECTRICAL CHARACTERISTICS:

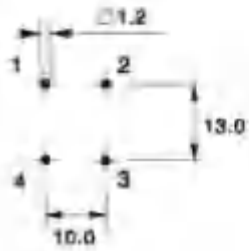
Part Number	L (mH)Min	Rated Current (A)	RDC max. (Ω)
UT2024-821Y	0.82	2.0	0.065
UT2024-122Y	1.2	1.8	0.095
UT2024-182Y	1.8	1.5	0.12
UT2024-222Y	2.2	1.3	0.165
UT2024-272Y	2.7	1.2	0.19
UT2024-332Y	3.3	1.2	0.21
UT2024-392Y	3.9	1.0	0.28
UT2024-562Y	5.6	0.8	0.415
UT2024-682Y	6.8	0.7	0.47
UT2024-103Y	10	0.6	0.71
UT2024-183Y	18	0.5	1.2
UT2024-223Y	22	0.4	1.64
UT2024-333Y	33	0.3	2.5

PHYSICAL CHARACTERISTICS:

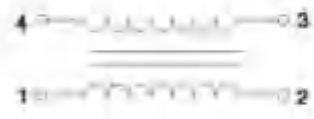
Dimensions 1



Hole pattern(in mm)



Winding



Notes:

Rated voltage.....250Vac

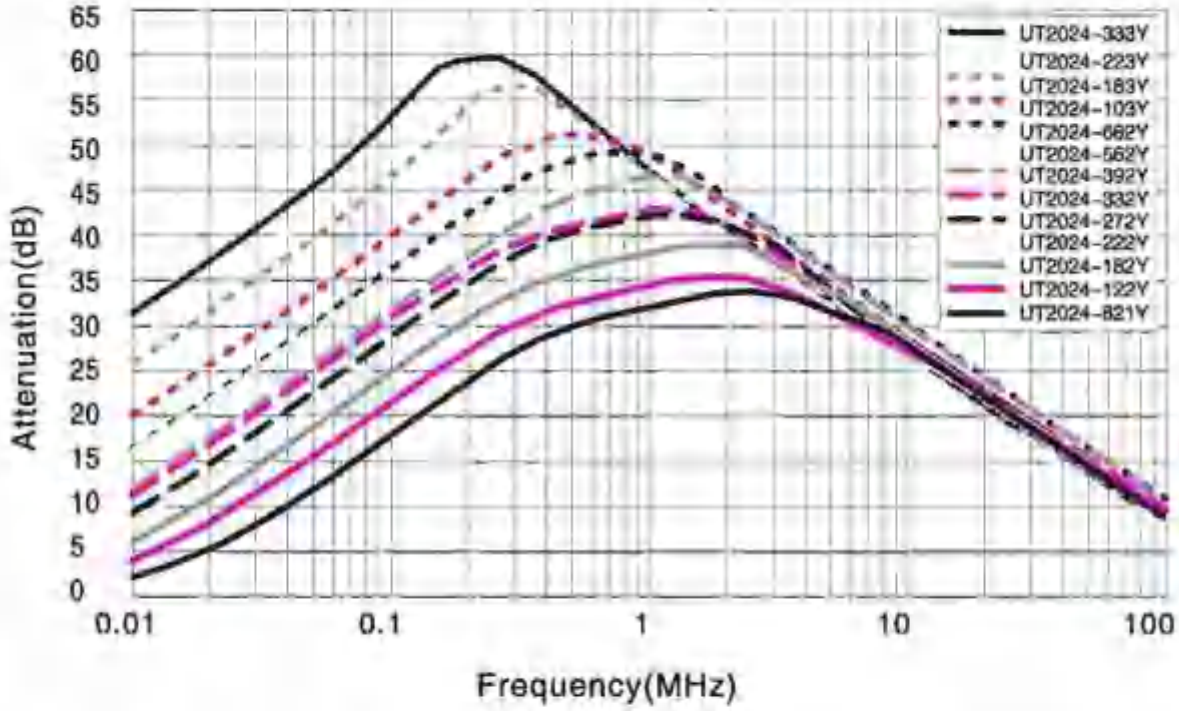
Frequency.....50/60Hz

Insulation test voltage.....2000V

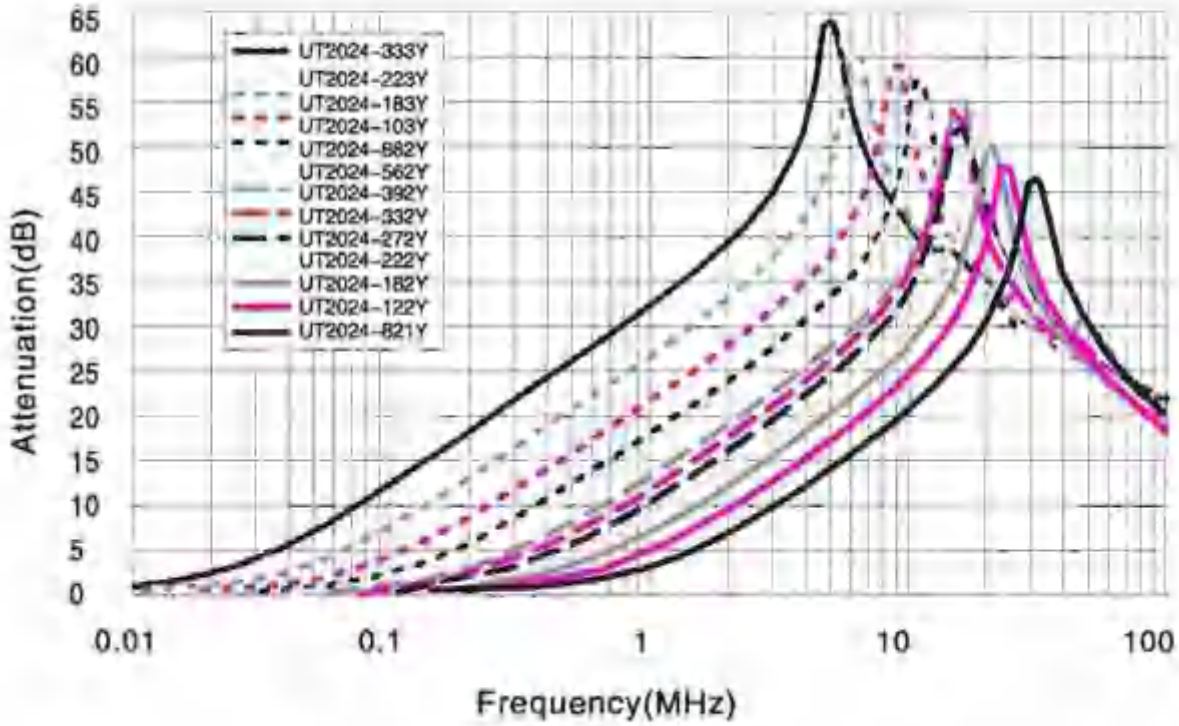
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE

UT2323 SERIES

FEATURES:

- High resonance frequency due to 2-section winding
- Approx. 1% stray inductance for symmetrical interference suppression
- Low leakage due to closed core shape
- High pulse strength
- Low whirring noise
- Suitable for wave soldering
- RoHS-compatible

APPLICATIONS:

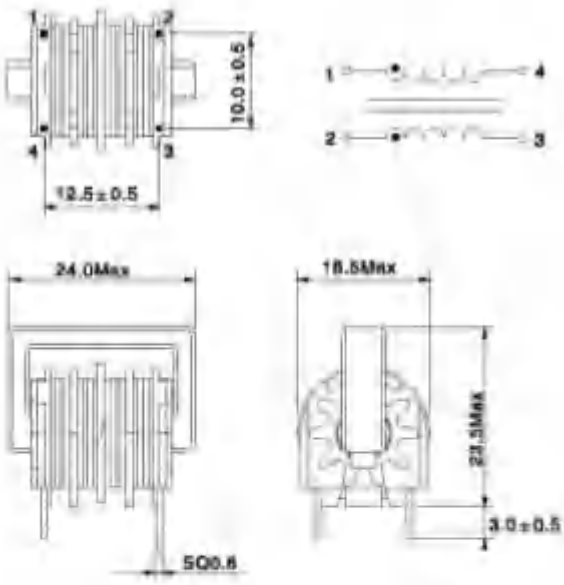
- Suppression of common-mode interferances
- Switch-mode power applications
- Electronic ballasts in lamps

ELECTRICAL CHARACTERISTICS:

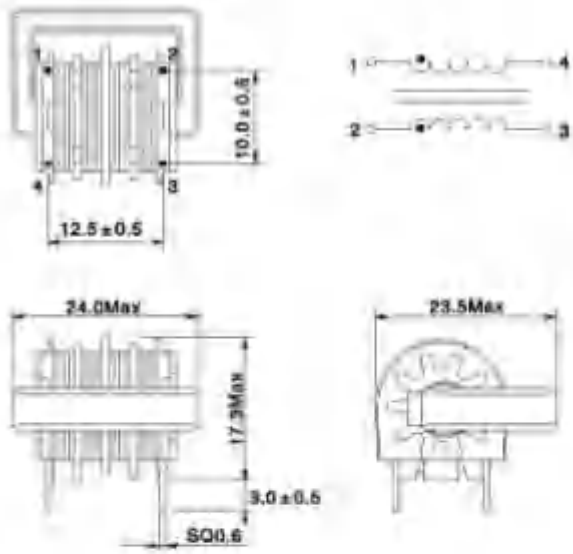
Part Number	L(mH) -50%/-30%	Lk(uH) Typ	Rated Current (A)	RDC(mΩ) Max
UT2323V/H-332Y	3.3	27	2.2	110
UT2323V/H-682Y	6.8	55	1.7	190
UT2323V/H-103Y	10	85	1.4	300
UT2323V/H-153Y	15	125	1.1	440
UT2323V/H-223Y	22	165	1.0	580
UT2323V/H-273Y	27	230	0.9	750
UT2323V/H-393Y	39	330	0.7	1100
UT2323V/H-473Y	47	400	0.6	1400
UT2323V/H-104Y	100	850	0.4	3000

PHYSICAL CHARACTERISTICS:

UT2323V



UT2323H



Notes:

Rated voltage.....250Vac

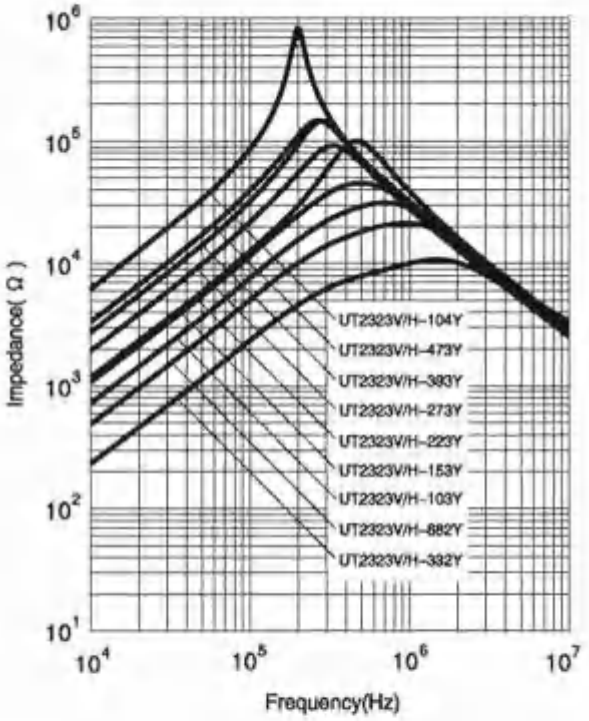
Frequency.....50/60Hz

Insulation test voltage.....1500V

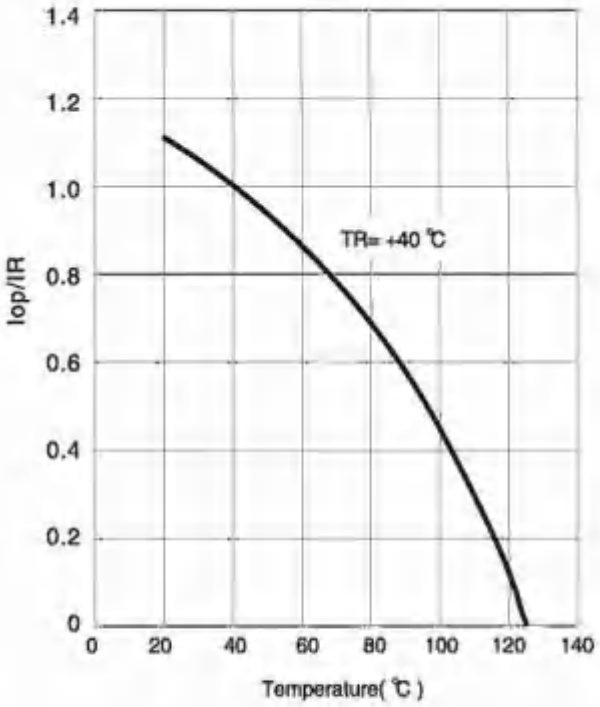
Operating temperature.....-25 ℃ to +125 ℃

Housing.....UL94 V-0

Impedance |Z| versus frequency F
measured with windings in parallel at +20℃
typical values



Current derating Iop/IR
versus ambient temperature TA



COMMON MODE POWER LINE CHOKE

UT2020 SERIES

FEATURES:

- High resonance frequency due to 2–section winding
- Approx. 1% stray inductance for symmetrical interference suppression
- Low leakage due to closed core shape
- High pulse strength
- Low whirring noise
- Suitable for wave soldering
- RoHS–compatible

APPLICATIONS:

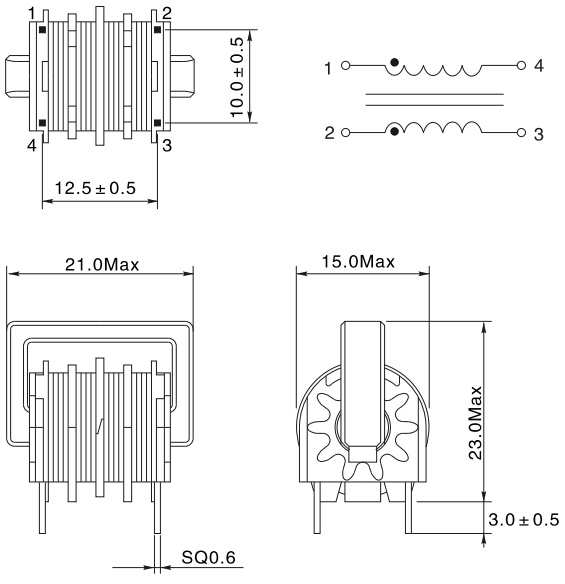
- Suppression of common–mode interferences
- Switch–mode power applications
- Electronic ballasts in lamps

ELECTRICAL CHARACTERISTICS:

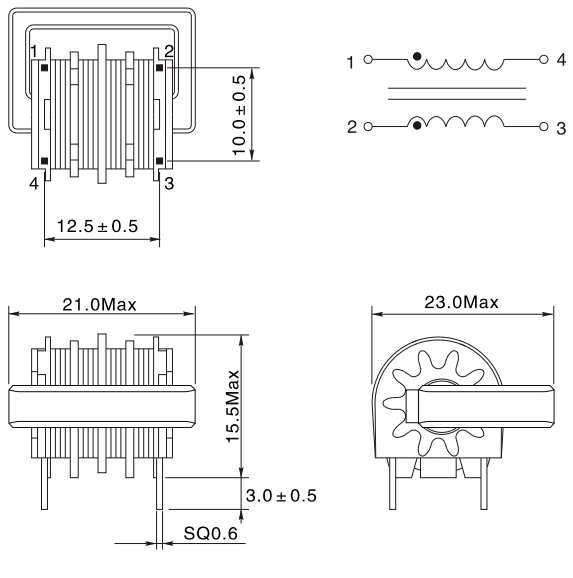
Part Number	L(mH) +50%/–30%	Lk(uH) Typ	Rated Current (A)	RDC(mΩ) Max
UT2020V/H–332Y	3.3	35	1.8	140
UT2020V/H–682Y	6.8	70	1.3	280
UT2020V/H–103Y	10	100	1.1	400
UT2020V/H–153Y	15	150	0.9	600
UT2020V/H–223Y	22	220	0.8	800
UT2020V/H–273Y	27	270	0.7	1000
UT2020V/H–393Y	39	390	0.6	1500
UT2020V/H–473Y	47	470	0.5	2000
UT2020V/H–683Y	68	700	0.4	3000
UT2020V/H–104Y	100	1000	0.35	4500

PHYSICAL CHARACTERISTICS:

UT2020V



UT2020H



Notes:

Rated voltage.....250Vac

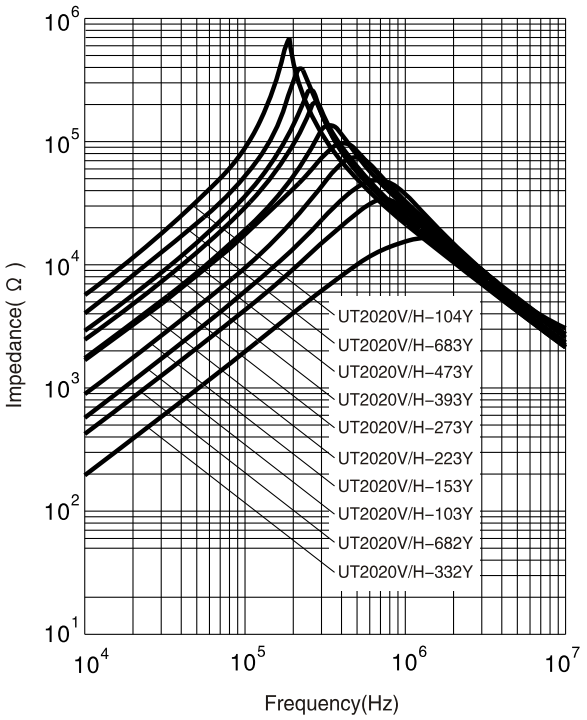
Frequency.....50/60Hz

Insulation test voltage..... 1500V

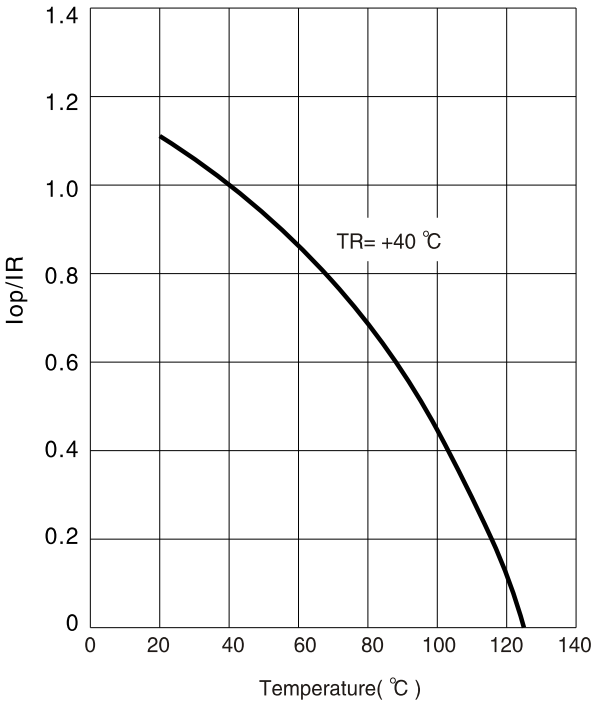
Operating temperature.....–25 ℃ to +125 ℃

Housing..... UL94 V–0

Impedance |Z| versus frequency F
measured with windings in parallel at +20℃
typical values



Current derating Iop/IR
versus ambient temperature TA



COMMON MODE INDUCTORS
LFT1112 SERIES

FEATURES:

- High inductance with low resistance
- Excellent differential-mode suppression
- High pulse-handling capability
- Industry best inductance/rated current ratio
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

APPLICATIONS:

- Electronic ballasts for lamps
- High power switch-mode power suppliesfor consumer electronics

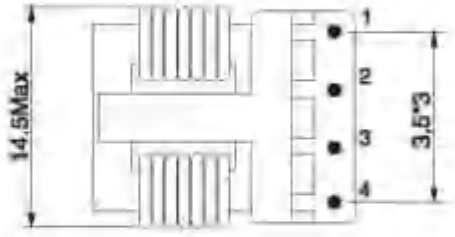
CONSTRUCTION:

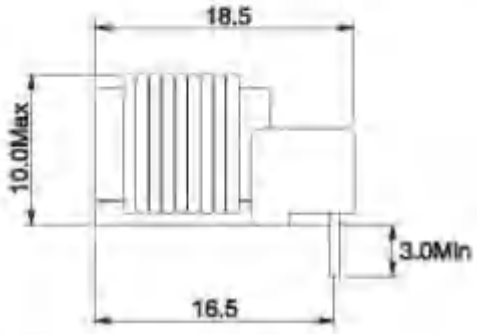
- Current-compensated double choke
- Closed magnetic circuit with frame construction
- Height 10 mm
- Clearance and creepage distances 3mm Min

ELECTRICAL CHARACTERISTICS:

Part Number	L(mH) 10KHz,0.1V +50%/-30%	Rated current (A)Max	DCR (mΩ)Typ
LFT1112-332Y	3.3	0.60	200
LFT1112-682Y	6.8	0.53	240
LFT1112-103Y	10	0.46	380
LFT1112-153Y	15	0.39	450
LFT1112-203Y	20	0.33	520
LFT1112-253Y	25	0.28	600
LFT1112-303Y	30	0.23	800

PHYSICAL CHARACTERISTICS





WINDING

- Rated voltage: 250VAC max@40℃
- Insulation voltage: 1500VAC,2S(line-line)
- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Storage Temperature: -40℃ to +40℃
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
- All specifications subject to change without notice.

COMMON MODE INDUCTORS
LFT1214 SERIES

FEATURES:
- High inductance with low resistance
- Excellent differential-mode suppression
- High pulse-handling capability
- Industry best inductance/rated current ratio
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

APPLICATIONS:
- Electronic ballasts for lamps
- High power switch-mode power suppliesfor consumer electronics

CONSTRUCTION:
- Current-compensated double choke
- Closed magnetic circuit with frame construction
- Height 16 mm
- Clearance and creepage distances 3mm Min

ELECTRICAL CHARACTERISTICS:

Part Number	L(mH) 10KHz,0.1V +50%/-30%	Rated current (A)Max	DCR (mΩ)Typ
LFT1214-102Y	1.0	2.26	85
LFT1214-152Y	1.5	1.63	95
LFT1214-222Y	2.2	1.27	140
LFT1214-332Y	3.3	1.06	160
LFT1214-472Y	4.7	0.77	180
LFT1214-682Y	6.8	0.60	190
LFT1214-103Y	10	0.39	240
LFT1214-153Y	15	0.33	300
LFT1214-203Y	20	0.28	380
LFT1214-303Y	30	0.23	460

PHYSICAL CHARACTERISTICS

WINDING

- Rated voltage: 250VAC max@40℃
- Insulation voltage: 1500VAC,2S(line-line)
- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Storage Temperature: -40℃ to +40℃
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
- All specifications subject to change without notice.

COMMON MODE INDUCTORS
LFT1418 SERIES

FEATURES:

- High inductance with low resistance
- Excellent differential-mode suppression
- High pulse-handling capability
- Industry best inductance/rated current ratio
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

APPLICATIONS:

- Electronic ballasts for lamps
- High power switch-mode power suppliesfor consumer electronics

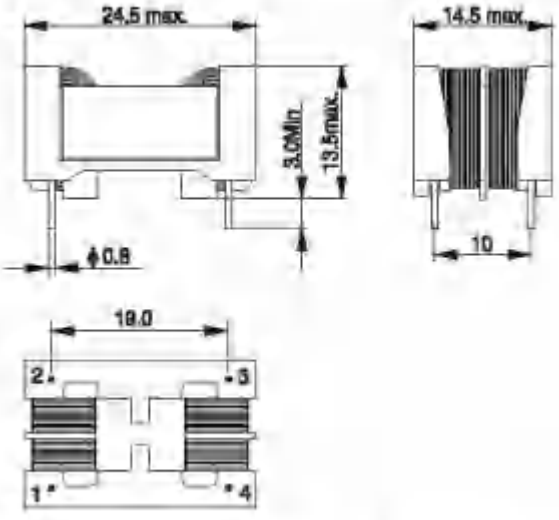
CONSTRUCTION:

- Current-compensated double choke
- Closed magnetic circuit with frame construction
- Height 13.5 mm
- Clearance and creepage distances 3mm Min

ELECTRICAL CHARACTERISTICS:

Part Number	L(mH) 10KHz,0.1V +50%/-30%	Rated current (A)Max	DCR (mΩ)Typ
LFT1418-222Y	2.2	1.39	60
LFT1418-332Y	3.3	1.27	70
LFT1418-682Y	6.8	1.06	85
LFT1418-103Y	10	0.96	120
LFT1418-153Y	15	0.77	150
LFT1418-223Y	22	0.60	200
LFT1418-273Y	27	0.53	260
LFT1418-303Y	30	0.46	310
LFT1418-333Y	33	0.39	340
LFT1418-473Y	47	0.33	410
LFT1418-683Y	68	0.28	500

PHYSICAL CHARACTERISTICS



WINDING

- Rated voltage: 250VAC max@40℃
- Insulation voltage: 1500VAC,2S(line-line)
- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Storage Temperature: -40℃ to +40℃
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
- All specifications subject to change without notice.

COMMON MODE INDUCTORS
LFT1512 SERIES

FEATURES:
- High inductance with low resistance
- Excellent differential-mode suppression
- High pulse-handling capability
- Industry best inductance/rated current ratio
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

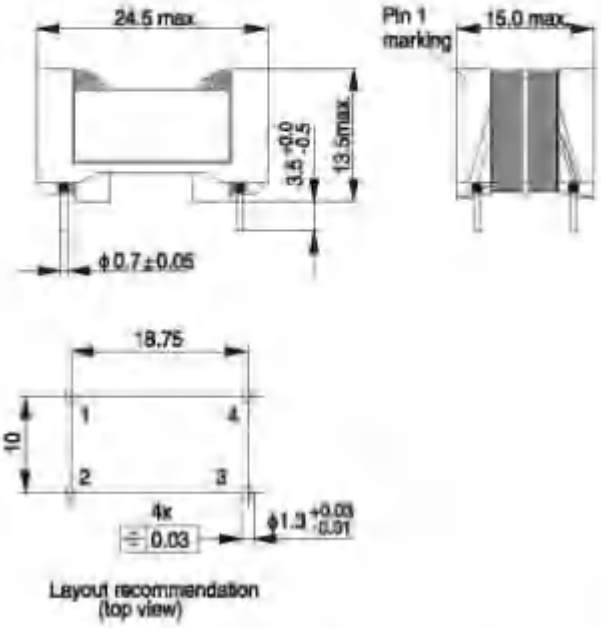
APPLICATIONS:
- Electronic ballasts for lamps
- High power switch-mode power supplies for consumer electronics

CONSTRUCTION:
- Current-compensated double choke
- Closed magnetic circuit with frame construction
- 4-section winding with direct winding of the core
- Height 14 mm
- Clearance and creepage distances 3mm Min

ELECTRICAL CHARACTERISTICS:

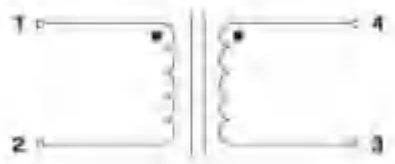
Part Number	L(0A) (mH)+50%/-30% 10KHz,0.1V	Lk (uH)Max 10KHz,0.5V	Rated current (A)Max	DCR (mΩ)Typ
LFT1512-103Y	10	200	1.6	290
LFT1512-153Y	15	290	1.3	430
LFT1512-273Y	27	520	0.9	770
LFT1512-393Y	39	760	0.8	1100
LFT1512-473Y	47	920	0.7	1260
LFT1512-683Y	68	1340	0.6	1970
LFT1512-104Y	100	1930	0.45	2930

PHYSICAL CHARACTERISTICS



Layout recommendation (top view)

WINDING



- Rated voltage: 250VAC max@40℃
- Insulation voltage: 1500VAC,2S(line-line)
- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Storage Temperature: -40℃ to +40℃
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
- All specifications subject to change without notice.

COMMON MODE INDUCTORS

LFT1720 SERIES

FEATURES:

- High inductance with low resistance
- Excellent differential-mode suppression
- High pulse-handling capability
- Industry best inductance/rated current ratio
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

APPLICATIONS:

- Electronic ballasts for lamps
- High power switch-mode power suppliesfor consumer electronics

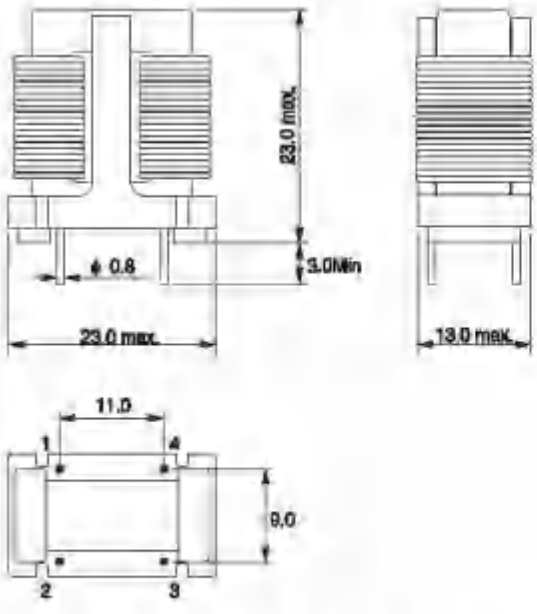
CONSTRUCTION:

- Current-compensated double choke
- Closed magnetic circuit with frame construction
- Height 23 mm
- Clearance and creepage distances 3mm Min

ELECTRICAL CHARACTERISTICS:

Part Number	L(mH) 10KHz,0.1V +50%/-30%	Rated current (A)Max	DCR (mΩ)Typ
LFT1720-222Y	2.2	4.02	65
LFT1720-332Y	3.3	3.08	70
LFT1720-472Y	4.7	2.65	75
LFT1720-682Y	6.8	2.26	90
LFT1720-103Y	10	2.04	120
LFT1720-153Y	15	1.90	150
LFT1720-203Y	20	1.63	200
LFT1720-253Y	25	1.51	300

PHYSICAL CHARACTERISTICS



WINDING

- Rated voltage: 250VAC max@40℃
- Insulation voltage: 1500VAC,2S(line-line)
- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Storage Temperature: -40℃ to +40℃
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
- All specifications subject to change without notice.

COMMON MODE INDUCTORS

LFT2312 SERIES

FEATURES:

- High inductance with low resistance
- Excellent differential-mode suppression
- High pulse-handling capability
- Industry best inductance/rated current ratio
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

APPLICATIONS:

- Electronic ballasts for lamps
- High power switch-mode power suppliesfor consumer electronics

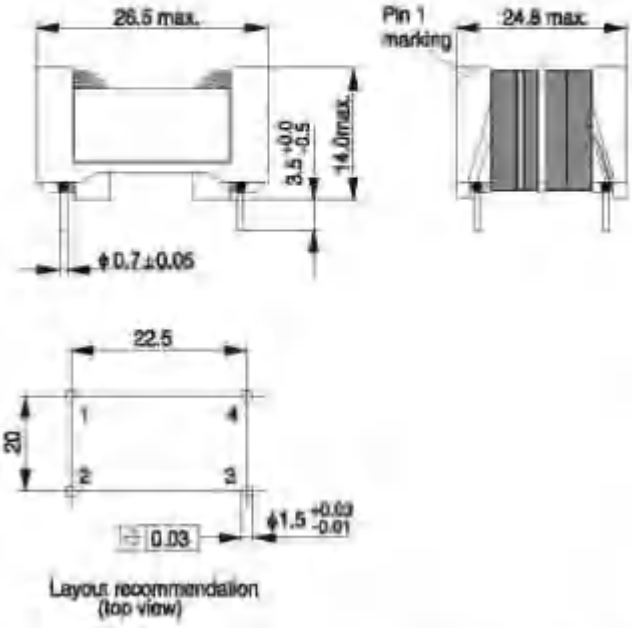
CONSTRUCTION:

- Current-compensated double choke
- Closed magnetic circuit with frame construction
- 4-section winding with direct winding of the core
- Height 14 mm
- Clearance and creepage distances 3mm Min

ELECTRICAL CHARACTERISTICS:

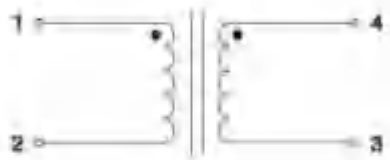
Part Number	L(0A) (mH)+50%/-30% 10KHz,0.1V	Lk (uH)Max 10KHz,0.1V	Rated current (A)Max	DCR (mΩ)Typ
LFT2312-103Y	10	200	2.3	168
LFT2312-153Y	15	310	1.9	279
LFT2312-273Y	27	530	1.4	440
LFT2312-393Y	39	800	1.2	696
LFT2312-473Y	47	970	1.1	804
LFT2312-683Y	68	1440	0.9	1100
LFT2312-104Y	100	2100	0.7	1810

PHYSICAL CHARACTERISTICS



Layout recommendation (top view)

WINDING



- Rated voltage: 250VAC max@40℃
- Insulation voltage: 1500VAC,2S(line-line)
- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Storage Temperature: -40℃ to +40℃
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
- All specifications subject to change without notice.

POWER LINE CHOKES

LFT2312V SERIES

FEATURES:

- High inductance with low resistance
- High pulse-handling capability
- Approx. 2% stray inductance for symmetrical interference suppression

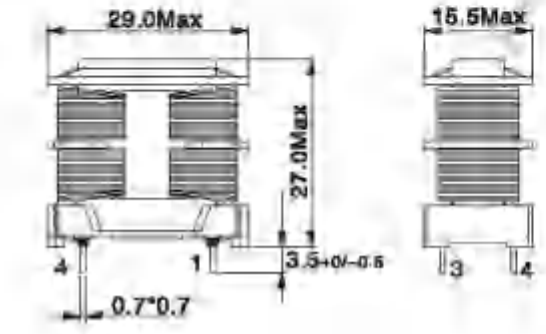
APPLICATIONS:

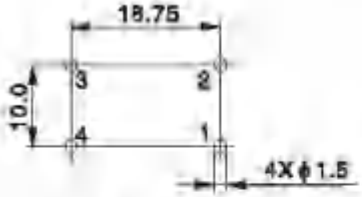
- Electronic ballasts for lamps
- Switch-mode power applications
- Suppression of common-mode and differential-mode interferences

ELECTRICAL CHARACTERISTICS@25℃

Part Number	Inductance (mH)10KHz,0.1mA +60%/-30%	Lk (uH) typ.	DC Current (A)Max	DCR (mΩ)Max	Test voltage (Vac) line to line
LTF2312V-104Y	100	2100	0.7	1810	2000
LTF2312V-683Y	68	1440	0.9	1100	2000
LTF2312V-473Y	47	970	1.1	804	2000
LTF2312V-393Y	39	800	1.2	696	2000
LTF2312V-273Y	27	550	1.4	440	2000
LTF2312V-153Y	15	310	1.9	279	2000
LTF2312V-103Y	10	210	2.3	188	2000

PHYSICAL CHARACTERISTICS

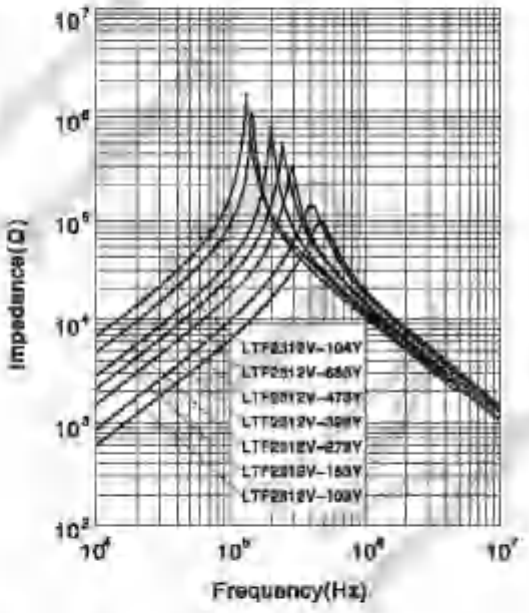




Layout recommendation (top view)

IMPEDANCE VS FREQUENCY

Measured with windings in parallel at +20℃,typical values



- Rated voltage: 300Vac,50/60Hz
- Inductance Testing: 10KHz 0.1mA
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -25℃ to +40℃,≤75%RH
- Temperature Rise Max:40℃
- Insulation resistance 100MΩ Min DC 500V
- Resistance to soldering heat:260℃ for 10 seconds

Note:All specifications subject to change without notice.