



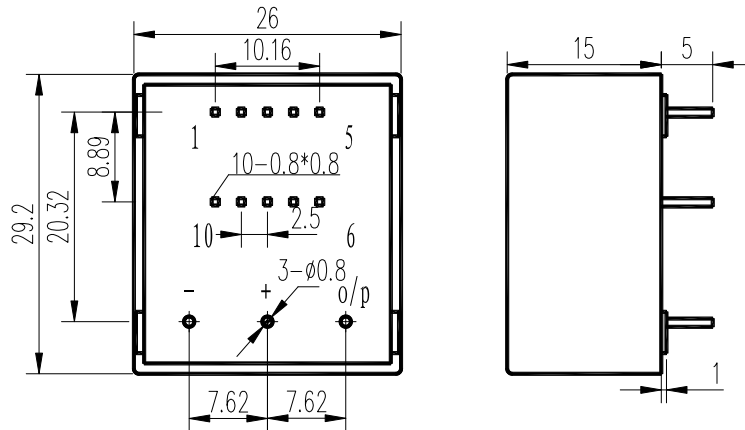
HBC-25A05 Series Hall Effect Current Sensor

The multi-range HBC-25A05 series current sensor is a closed loop device based on the principle of the Hall Effect and null balance method. The output from the current sensor is the balancing current which is a perfect image of the primary current reduced by the number of secondary turns at any time. This current can be expressed as a voltage by passing it through a resistor. It provides accurate electronic measurement of DC, AC or pulsed currents.

ELECTRICAL DATA

Type		HBC-25A05	
Rated Current		25	A
Measure Range		50	A
Rated Output		25±0.5%	mA
Supply Voltage		±15±5%	V
Turn Ratio		1-2-3-4-5:1000	
Consumption(Is=0)		±0.15	mA
Offset Drift	-40°C~+85°C	±0.5	mA
Response Time		<1	µs
Linearity		≤0.2	%FS
Galvanic Isolation	50HZ,1min	2.5	KV
di/dt		>50	A/µs
Band Width (-3dB)		DC...150	KHz
Secondary Resister		<1.25	mΩ
Resistance of Secondary Coil		110	Ω
Operating Temperature		-40~+85	°C
Storage Temperature		-40~+125	°C

MUTING DIMENSIONS(FOR REFERENCE ONLY)



PIN CONNECTIONS

Turn Ratio	Rated Current(A)	Measure Range (A)	Rated Output Current (mA)	Secondary Turns	Primary Resister (mΩ)	Primary Inductance (uH)	Pins Connections
1	25	50	25	1/1000	0.3	0.023	
2	12	24	24	2/1000	1.1	0.09	
3	8	16	24	3/1000	2.5	0.21	
4	6	12	24	4/1000	4.4	0.37	
5	5	10	25	5/1000	6.3	0.58	



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