HCOL06 Series

For the electronic measurement of currents : DC, AC, pulsed, mixed, with a galvanic isolation between the primary (high power) circuit and the secondary (electronic) circuit.

LEAD FREE

RoHS COMPLIANT

Operating performance (AT =25 ℃)

Performance \ Part No.		HCOL06-201-11	HCOL06-301-11
Primary nominal r.m.s. current	I_{PN}	200A	300A
Primary current measuring range	I_P	0~±200A	0~±300A
ΔV_O at peak rated current	ΔV_O	1.9V @ I_{PN},V_C=5V, R_L= 10KΩ	2.38V @ I_{PN},V_C=5V, R_L= 10KΩ
Supply voltage	V_{CC}	4.5~10.5VDC	
Offset voltage	V_O	(V_{CC}/2)±2% @I_P=0,T_A=25℃	
Supply current	I_C	7.2mA type 8.7mA max@5V, T_A=25℃	
Output current	I_{OUT}	2mA MAX	
Output linearity	ε_L	≦±1% @0~±I_{PN}	
Accuracy	X	±2% @I_{PN}	
Thermal drift of V_O		0.03%/℃	
Thermal drift of Gain		0.03%/℃	
Response time	Tr	3μs	
Isolation voltage	V_d	2.5KV @50(60)Hz/1min	

General data

Operating temperature	TA	-40 ～125℃
Storage temperature	T_S	-40 ～ 150℃
Mass	m	68g
Note		Insulated plastic case recognized according to UL 94-V 0

Applications

1.AC variable speed drives and servo motor drives
2.Battery supplied applications
3.Uninterruptible Power Supplies(UPS)
4.Static converters for DC motor drives
5.Switched Mode Power Supplies(SMPS)
6.Power supplies for welding applications

Advantages

1.Output voltage is isolated from the input
2.Good linearity
3.Very low insertion losses
4.Low power consumption
5.Excellent temperature stability

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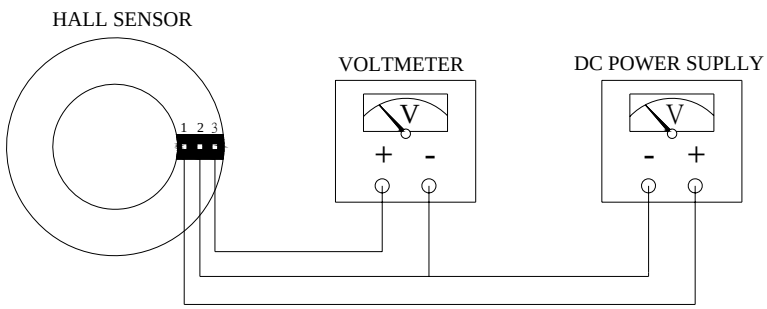
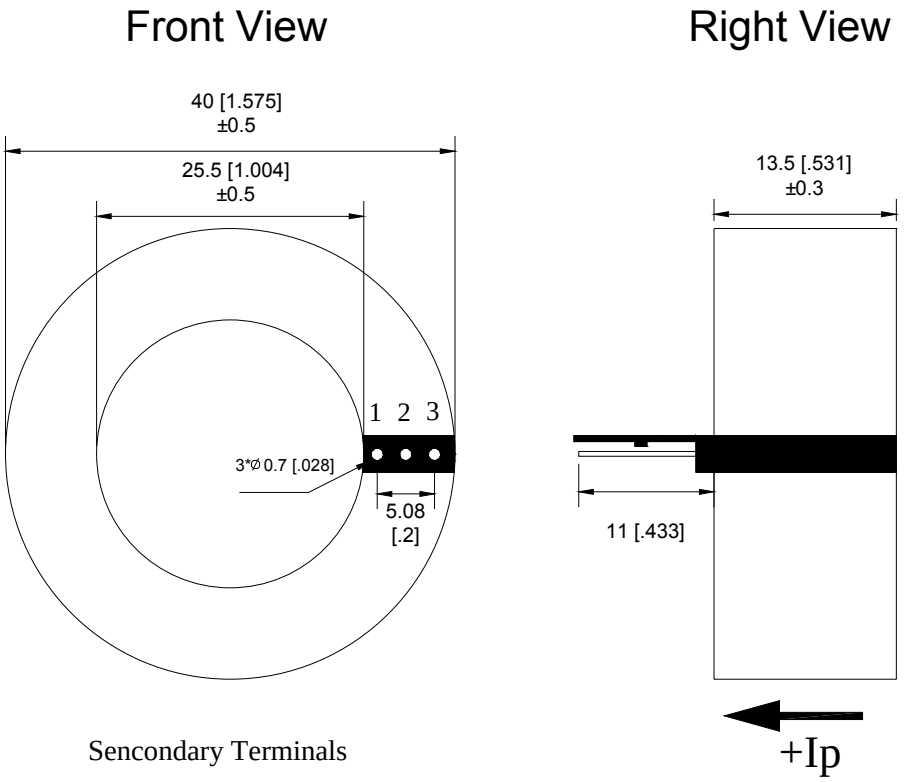
Connection



Dimensions (unit: mm/inch)



Sencondary Terminals

1	Vcc
2	GND
3	OUTPUT

mathing connector Molex 22-01-1042

Note：V_{OUT} is positive when I_P flows in the direction of the arrow