

HCOL05 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.



Operating performance (AT =25 °C)

Part No.		HCOL05-500-11	HCOL05-750-11	HCOL05-101-11	HCOL05-201-11	HCOL05-301-11
Primary nominal r.m.s. current	I_{PN} (A)	50	75	100	200	300
Primary current measuring range	I_P (A)	0~±100	0~±150	0~±200	0~±400	0~±600
Supply voltage	V_{CC}	±15V (±5%)				
Output voltage	V_{OUT}	4V ±1% @± I_{PN} , $R_L = 10K\Omega$				
Current consumption	I_C	≤±20mA @ ± I_{PN}				
Offset voltage	V_O	<±0.03V @ $I_P=0, T_A=25^\circ C$				
Thermal drift of V_O	V_{OT}	≤±1mV/°C	≤±0.5mV/°C			
Thermal drift of V_{OUT}	$TC\epsilon_G$	<±0.04%/°C				
Response time	t_r	< 5µs				
Linearity	ϵ_L	≤±1% @0~± I_{PN}				
Accuracy	X	±1 @ I_{PN}				
Hysteresis offset voltage	V_{OH}	≤±20mV @±3 $I_{PN} \rightarrow 0$				
Isolation voltage	V_d	3KV @50(60)Hz/1min				
Frequency bandwidth	f	0~50KHz				

General data

Operating temperature	T_A	-25 ~ 85 °C
Storage temperature	T_S	-40 ~ 100 °C
Mass	m	26g
Note		Insulated plastic case recognized according to UL 94-V 0

Applications

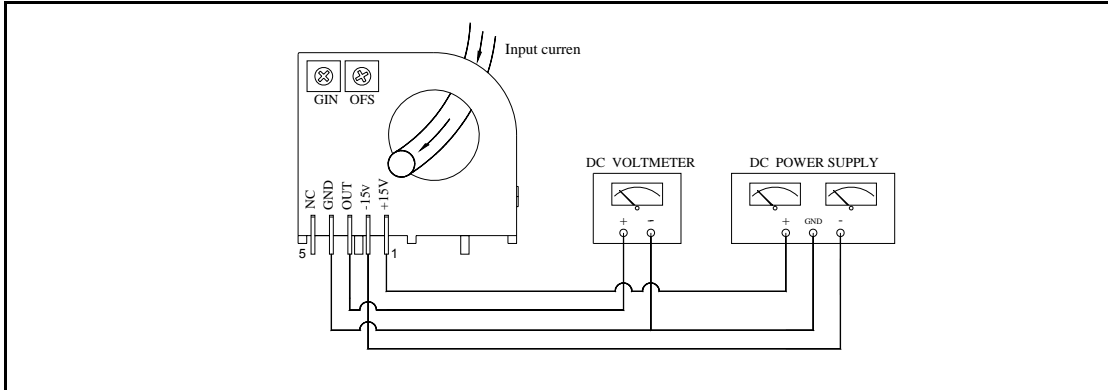
1.AC variable speed drives	4.Static converters for DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications.

Advantages

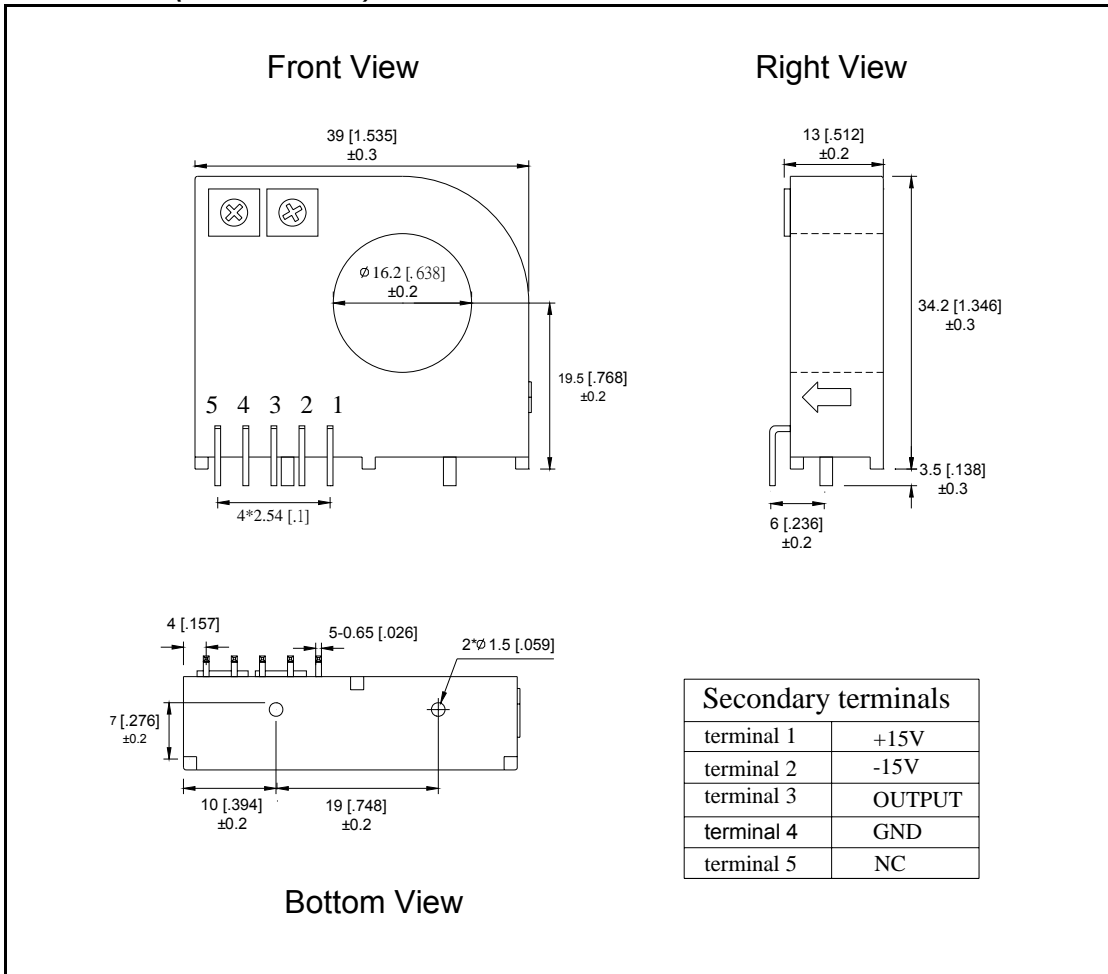
1.Low insertion losses	4.Only one design for wide current ratings range
2.Easy to mount with automatic handling system	5.High immunity to external interference
3.Small size and space saving	

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Connection



Dimensions (unit: mm/inch)



Remarks

1. V_{OUT} is positive when I_P flows in the direction of the arrow.
2. Temperature of the primary conductor should not exceed 100°C .
3. These are standard models. For different versions (supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.) please contact us.