

# 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	$\epsilon_L$	≤±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

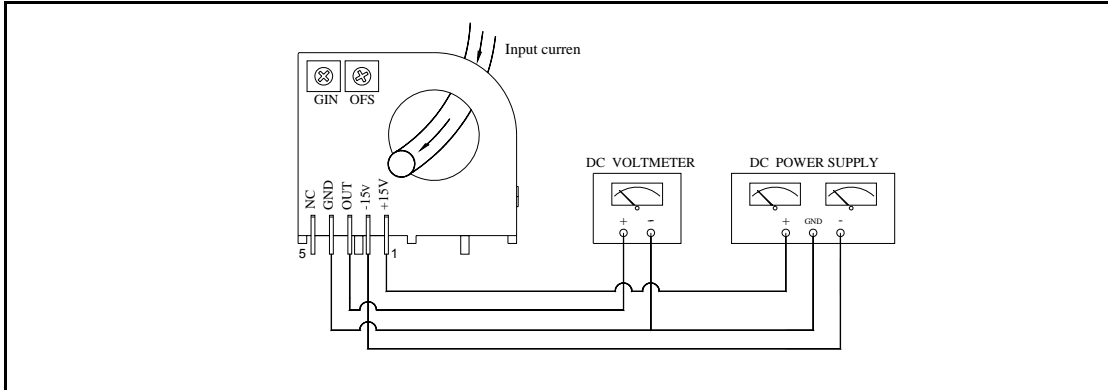
1.AC variable speed drives	4.Static converters for DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications.

## Advantages

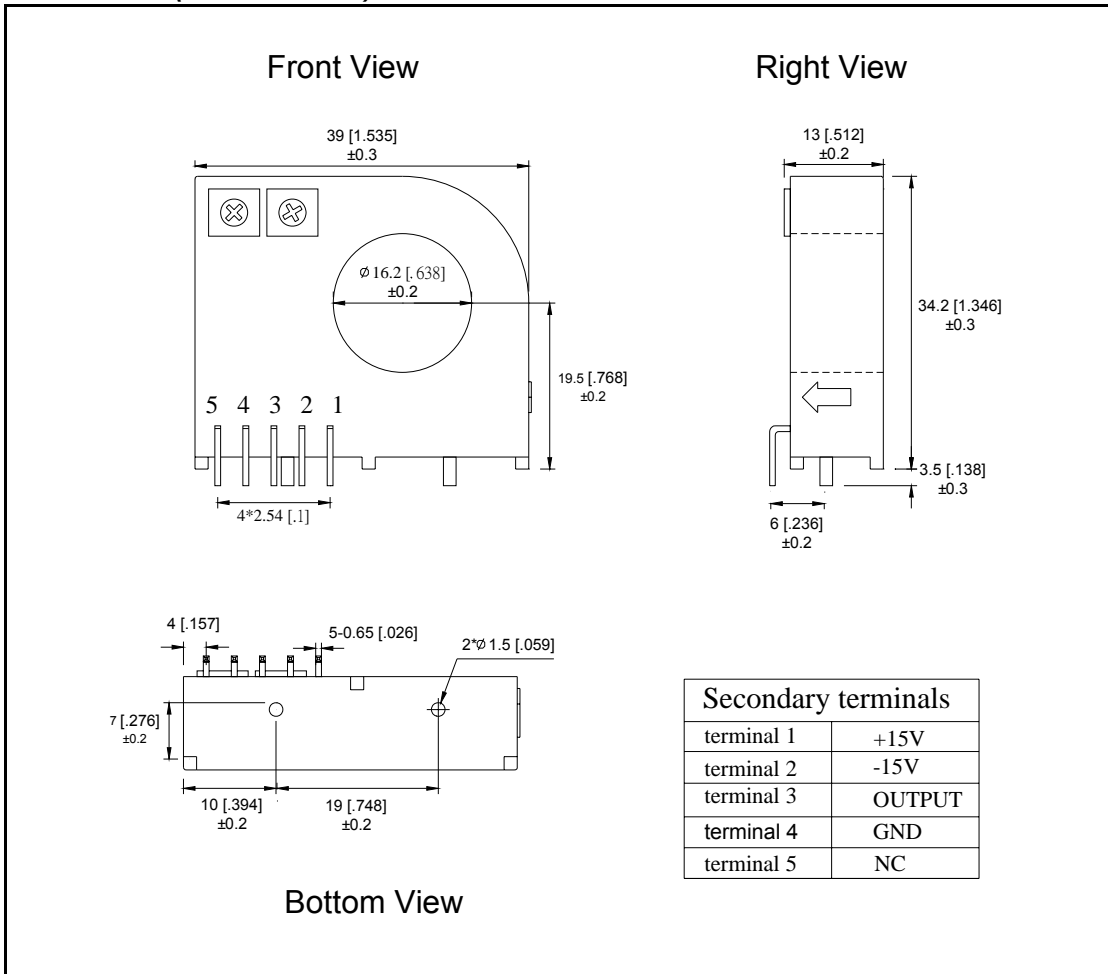
1.Low insertion losses	4.Only one design for wide current ratings range
2.Easy to mount with automatic handling system	5.High immunity to external interference
3.Small size and space saving	

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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  $100^{\circ}\text{C}$ .
3. These are standard models. For different versions (supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.) please contact us.