

# HCOL03 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.		HCOL03-101-11
<b>Performance</b>		
Primary nominal r.m.s. current	$I_{PN}$	100A
Primary current measuring range	$I_P$	0~±300A
Supply voltage	$V_{CC}$	4 ( ±5% ) V
Output voltage	$V_{OUT}$	100V ±5% @± $I_{PN}$ , $R_L = 10K\Omega$
Current consumption	$I_C$	≤±5.85mA (typ)
Offset voltage	$V_O$	< ±7mV @ $I_P=0, T_A=25^\circ C$
Thermal drift of $V_O$	$V_{OT}$	≤±0.5mV/°C
Thermal drift of $V_{OUT}$	$TC\epsilon_G$	< ±0.04%/°C
Response time	$t_r$	< 5μs
Linearity	$\epsilon_L$	≤±2% @0~± $I_{PN}$
Accuracy	X	±15% @ $I_{PN}$
Hysteresis offset voltage	$I_{OH}$	≤±10mV @± $I_{PN} \rightarrow 0$
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	6.5g
Note		Insulated plastic case recognized according to UL 94-V 0

## Applications

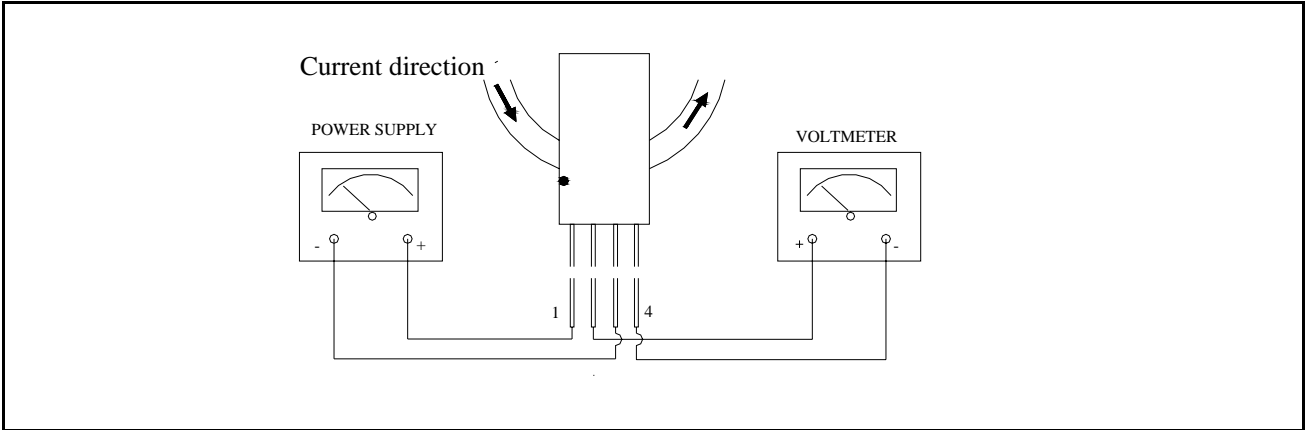
1.AC variable speed drives	4.DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications

## Advantages

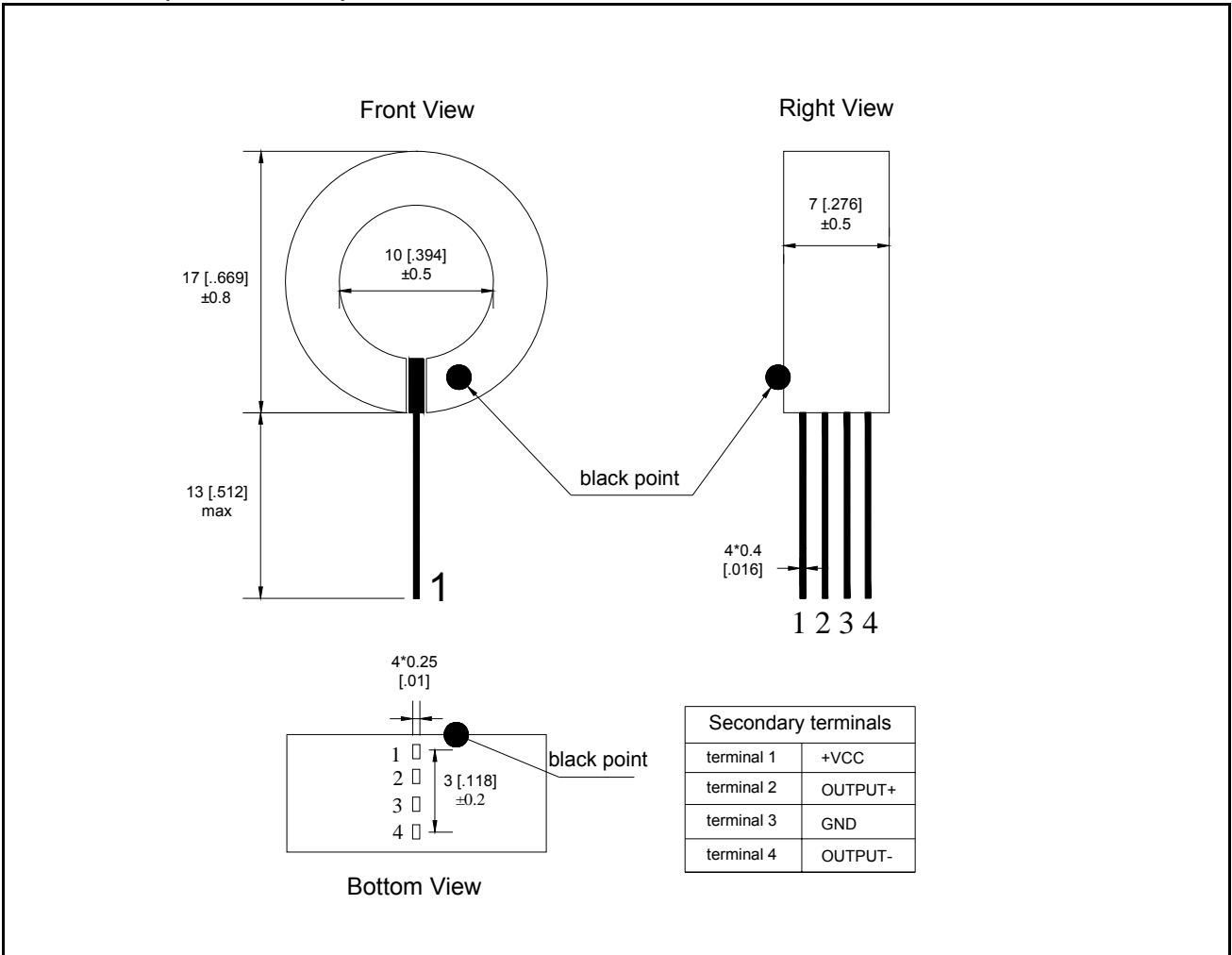
1.Low insertion losses	3.Small size and space saving
2.Easy mounting	4.High immunity to external interference

# HCOL03 Series

## Connection



## Dimensions (unit: mm/inch)



## Remarks

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