



Hall Effect Current Sensors L06P***S05 Series

Features:

- Open Loop type •
- Printed circuit board mounting
- Horizontal mounting
- Unipolar power supply
- Industrial temperature range .
- Mounting pins
- Insulated plastic case according to UL94V0

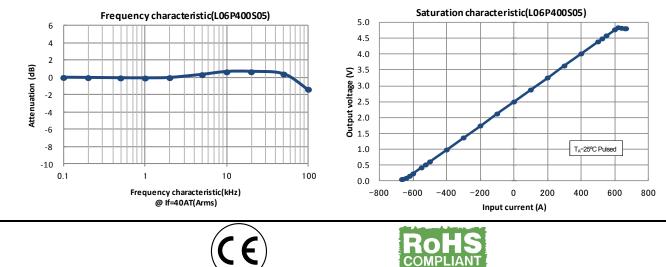
Advantage:

- Excellent accuracy and linearity •
- Wide nominal current range •
- Low temperature drift
- Wide frequency bandwidth
- No insertion loss •
- High Immunity To External Interference
- Optimised response time •
- Current overload capability

Specifications T _A =25°C, V _{cc} =+5V, R _L					
Parameters	Symbol	L06P400S05	L06P600S05	L06P800S05	
Primary nominal current	l _f	400AT	600AT	800AT	
Saturation current	I _{fmax}	≥ ± lf x 1.33			
Rated output voltage	Vo	V _{of} +1.5V ± 0.035V (at If)			
Offset voltage ¹	V _{of}	$V_{REF}^{1} \pm 30 mV$ (at If = 0A)			
Output linearity ² (0A~If)	£ ∟	≤ ± 1% (at lf)			
Power supply voltage	V _{cc}	+ 5V ± 0.1V			
Consumption current	Icc	≤ 15mA			
Response time ³	tr	≤ 5µs (at di/dt = 100A / µs)			
Thermal drift of gain ⁴	TcVo	≤ ± 1.5mV/ºC			
Thermal drift of offset	TcVof	≤ ± 1.0 mV/⁰C			
Hysteresis error	V _{он}	≤ 10mV (at If = 0A→If →0A)			
Insulation voltage	V _d	AC2500V for 1minute (sensing current 0.5mA), inside of through hole \Leftrightarrow terminal			
Insulation resistance	R _{IS}	≥ 500MΩ(at DC500V), inside of through hole \Leftrightarrow terminal			
Ambient operation tempera- ture	T _A	-40°C~+85°C			
Ambient storage tempera- ture	Τs	-40°C~+85°C			

¹ V_{REF} = V_{CC} / 2 (ratiometric). After removal of core hysteresis—² Without offset — ³ Time between 90% input current full scale and 90% of sensor output full scale—⁴ Without Thermal drift of offset

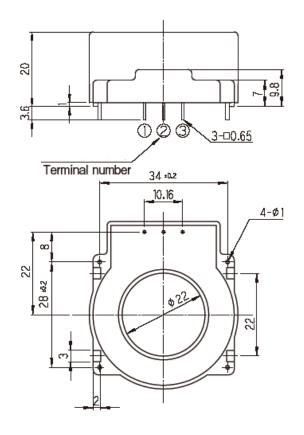
Electrical Performances





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Mechanical dimensions

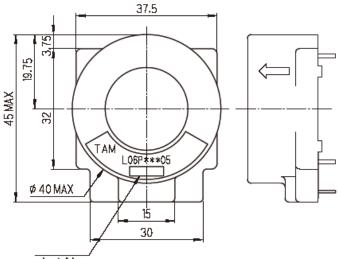


NOTES

- 1. Unit is mm
- 2. Tolerance is 0.5mm

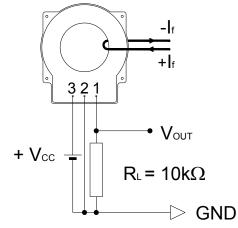
Terminal Number: 1: V_{OUT} 2: GND

3: +V_{CC}(+5V)



Lot No.

Electrical connection diagram



Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet
65g	100	500	4800

