



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:

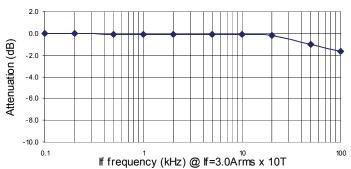
- Excellent accuracy and linearity
- Wide nominal current range
- Low temperature drift
- Wide frequency bandwidth
- No insertion loss
- High Immunity To External Interference
- Optimised response time
- Current overload capability

Specifications T _A =25°C, V _{CC} =+5V, R _L =							
Parameters	Symbol	L06P300S05	L06P400S05	L06P500S05	L06P600S05	L06P700S05	L06P800S05
Rated current	I _f	300AT	400AT	500AT	600AT	700AT	800AT
Maximum Current	I _{fmax}	≥If x 1.33					
Output Voltage	V _{out}	V _{OE} ±1.5V @ ±I _f					
Offset Voltage	V _{OE}	2.5V±30mV @ I _f = 0A					
Accuracy ¹	х	< 1% @ I _f					
Output Linearity ¹	٤L	≤±1% @ I _f					
Power Supply	V _{cc}	+5V±2%					
Current Consumption	Ic	≤15mA					
Response Time	t _r	≤5µs (@ di/dt=100A/5µs)					
Output Temperature Characteristic ¹	TCV _{OUT}	≤±1.5mV/°C					
Offset Temperature Characteristic	TCV _{OE}	≤±1.0 mV/°C @ I _f =0A					
Hysteresis error	V _{OH}	≤10mV (0A ⇔ I _f)					
Withstand Voltage	V _d	AC2500V for 1minute (sensing current 0.5mA), inside of through hole ⇔ terminal					
Insulation Resistance	R _{IS}	> 500M Ω (500V DC), inside of through hole \Leftrightarrow terminal					
Frequency Bandwidth ²	f	DC 50kHz					
Operating Temperature	T _A	-40°C~+85°C					
Storage Temperature	Ts	-40°C~+85°C					

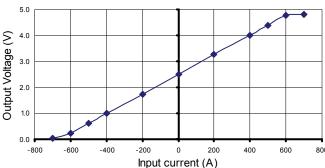
¹ Without offset — ² Small signal only to avoid excessive heating of magnetic core

Electrical Performances





Saturation Characteristic (LO6P400S05)







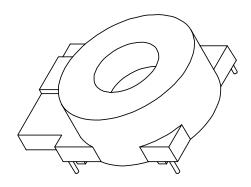


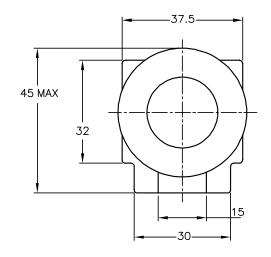


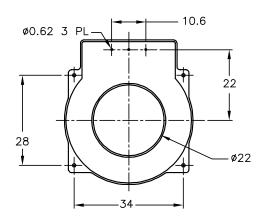


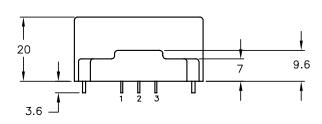
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Mechanical dimensions in mm

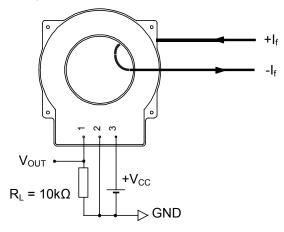








Electrical connection diagram



Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet
66g	100	500	9000







