Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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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

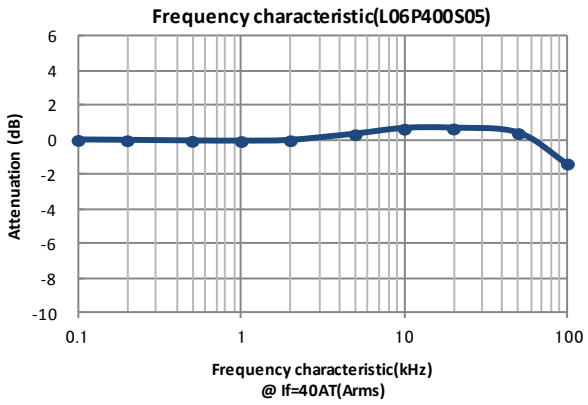
Specifications

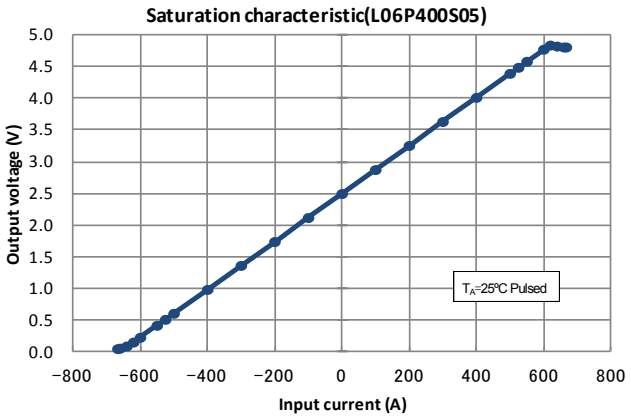
T_A=25ºC, V_{CC}=+5V, R_L=10kΩ

Parameters	Symbol	L06P400S05	L06P600S05	L06P800S05
Primary nominal current	I_f	400AT	600AT	800AT
Saturation current	I_{fmax}	≥ ± If x 1.33		
Rated output voltage	V_o	V_{of} +1.5V ± 0.035V (at If)		
Offset voltage[1]	V_{of}	V_{REF}[1] ± 30mV (at If = 0A)		
Output linearity[2](0A～If)	ε_L	≤ ± 1% (at If)		
Power supply voltage	V_{CC}	+ 5V ± 0.1V		
Consumption current	I_{CC}	≤ 15mA		
Response time[3]	t_r	≤ 5μs (at di/dt = 100A / μs)		
Thermal drift of gain[4]	TcVo	≤ ± 1.5mV/ºC		
Thermal drift of offset	TcVof	≤ ± 1.0 mV/ºC		
Hysteresis error	V_{OH}	≤ 10mV (at If = 0A→If →0A)		
Insulation voltage	V_d	AC2500V for 1minute (sensing current 0.5mA), inside of through hole ⇔ terminal		
Insulation resistance	R_{IS}	≥ 500MΩ(at DC500V), inside of through hole ⇔ terminal		
Ambient operation temperature	T_A	-40ºC~+85ºC		
Ambient storage temperature	T_S	-40ºC~+85ºC		

[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

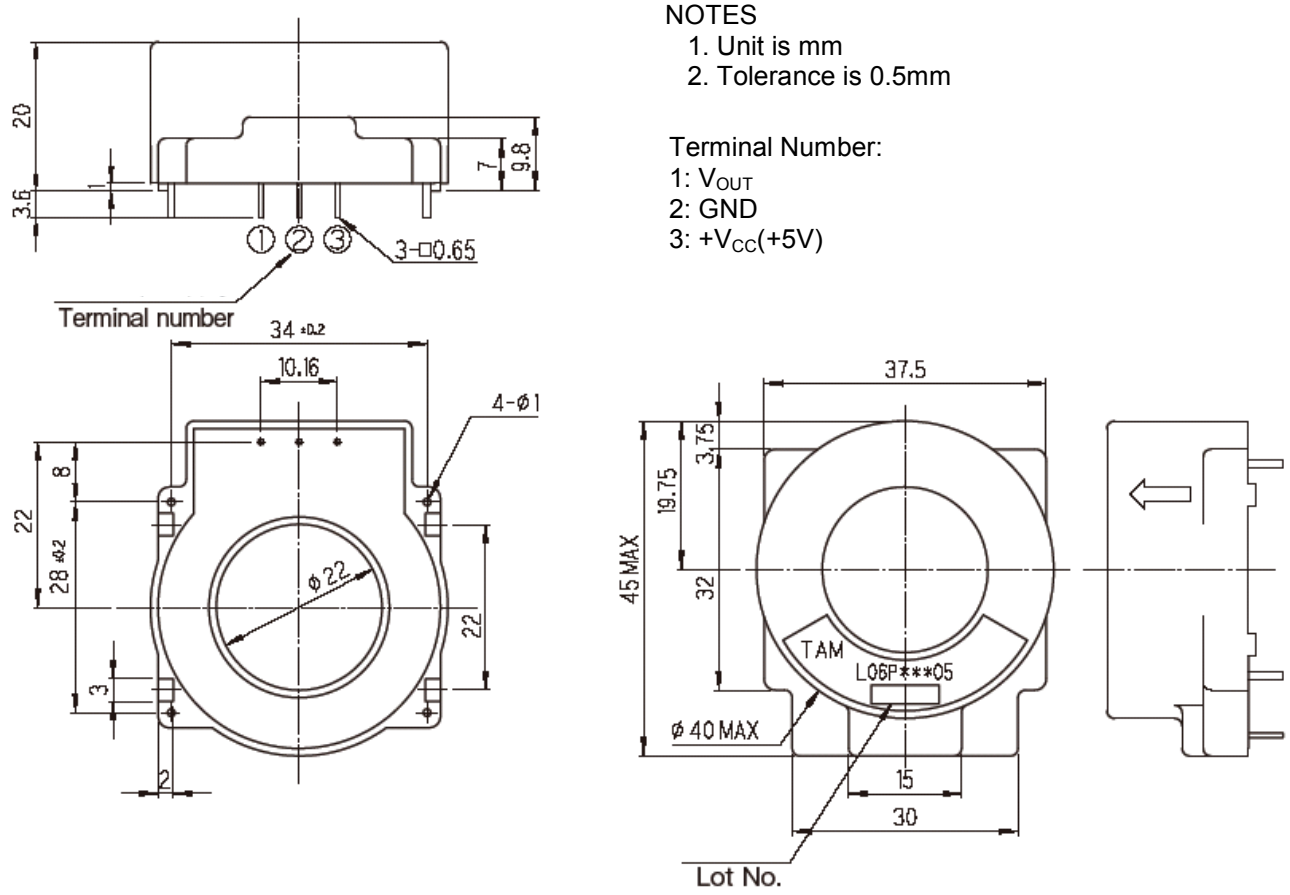
Electrical Performances





Hall Effect Current Sensors L06P***S05 Series

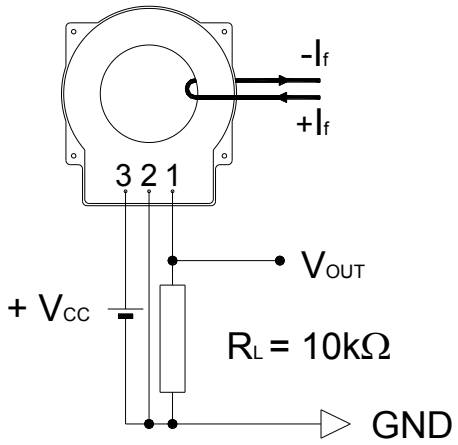
Mechanical dimensions



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

Terminal Number:
1: V_{OUT}
2: GND
3: $+V_{CC}$(+5V)

Electrical connection diagram



Package & Weight Information

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