

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!



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Hall Effect Current Sensors L12P***D15 Series



Features:

- Open Loop type
- · Printed circuit board mounting
- Bipolar power supply
- Extended measurement range
- Insulated plastic case according to UL94V0

Advantages:

- Excellent accuracy
- · Very good linearity
- Low temperature drift
- No insertion loss
- High Immunity To External Interference
- Current overload capability

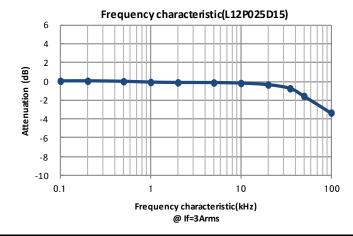
Specifications

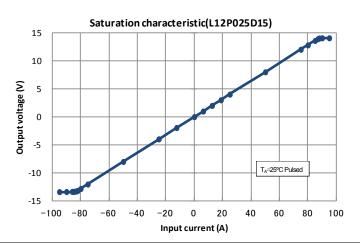
 T_A =25°C, V_{CC} = ± 15V, R_L =10k Ω

Opecinications	1	1A-23 C, V _{CC} - ± 13V, K _L -10k ₂₂	
Parameters	Symbol	L12P025D15	
Primary nominal current	I _f	25A	
Saturation current	I _{fmax}	≥ ± 75A	
Rated output voltage	V _o	4V ± 0.040V (at If)	
Offset voltage ¹	V _{of}	≤ ± 0.040V (at If=0A)	
Output linearity ² (0A~If)	ε _L	≤ ± 1% (at If)	
Power supply voltage ³	V _{cc}	± 12V ±5% ~ ± 15V ± 5%	
Consumption current	Icc	≤ ± 15mA	
Response time ⁴	t _r	≤ 3µs (at di/dt = I _f / µs)	
Thermal drift of gain⁵	TcVo	≤ ± 0.1% / °C	
Thermal drift of offset	TcVof	≤ ± 3.0mV / °C	
Hysteresis error	V _{OH}	≤ 25mV (at If = 0A→If →0A)	
Insulation voltage	V_{d}	AC 2500V for 1minute (sensing current 0.5mA), primary conductor ⇔ terminal	
Insulation resistance	R _{IS}	≥ 500MΩ (at DC500V) , primary conductor ⇔ terminal	
Ambient operation temperature	T _A	-30°C ~ +80°C	
Ambient storage temperature	Ts	-40°C ~ +85°C	

 $^{^{1}}$ After removal of core hysteresis- 2 Without offset - 3 Maximum current is restricted by V_{CC} - 4 Time between 10% input current full scale and 90% of sensor output full scale 5 Without Thermal drift of offset

Electrical Performance





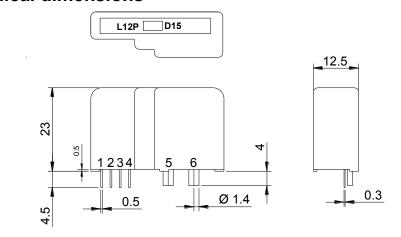






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Mechanical dimensions



NOTES

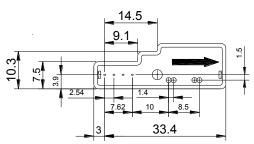
- 1. Unit is mm
- 2. Tolerance is 0.5mm

Terminal number:

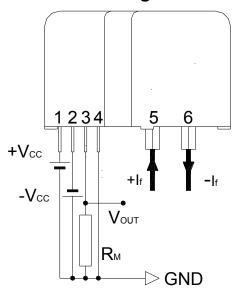
- 1. $+V_{CC}(+15V)$
- 2. -V_{CC}(-15V)
- 3. V_{OUT}
- 4. GND

Circuit board hole dimension (View of solder side)

- 5. Primary input current (+)
- 6. Primary input current (-)



Electrical connection diagram



Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet
20g	50	500	7200



