imall

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 L18P***D15 Series

Features:

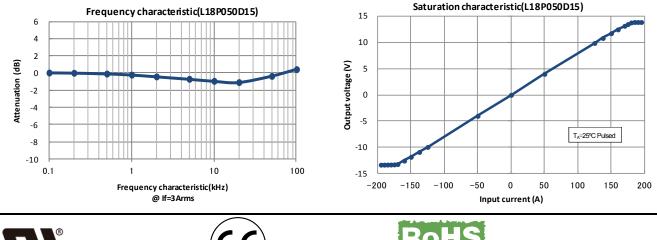
- Open Loop type •
- Printed circuit board mounting
- Integrated primary
- Voltage output
- Busbar version from 40A to 60A Insulated plastic case according • to UL94V0
- UL Recognition

- 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 •

T _A =25°C, V _{CC} =±15V, R _L =10k									/, R _L =10kΩ			
Parameters	Symbol	L18P003 D15	L18P005 D15	L18P010 D15	L18P015 D15	L18P020 D15	L18P025 D15	L18P030 D15	L18P040 D15	L18P050 D15	L18P060 D15	
Primary nominal current	l _f	3A	5A	10A	15A	20A	25A	30A	40A	50A	60A	
Saturation current	I _{fmax}	$\geq \pm \text{ If } x 3$										
Rated output voltage	Vo		4∨ ±0.040∨ (at lf)						4V ±0.050V (at If)			
Offset voltage1	V _{of}	≤ ±0.040V (at If=0A)						≤ ±0.050V (at If=0A)				
Output linearity ² (0A~If)	٤L		≤ ±1% (at If)									
Power supply voltage	V _{cc}	±15V ±5%										
Consumption current	lcc	≤ ±15mA										
Response time ³	t _r	≤ 5µs (at di/dt = I _f / µs)										
Thermal drift of gain ⁴	TcVo	≤ ±0.1%/ °C										
Thermal drift of offset	TcVof	≤ ±1.5mV/ °C										
Hysteresis error (at If=0A→If→0A)	V _{OH}	≤ 25mV					≤ 40mV					
Insulation voltage	V _d	AC3000V for 1minute (sensing current 0.5mA), primary \Leftrightarrow secondary										
Insulation resistance	R _{IS}	≥ 500MΩ (at DC500V), primary \Leftrightarrow secondary										
Ambient operation tem- perature	TA	-30°C~+80°C										
Ambient storage tem- perature	Ts	-40°C~+85°C										

1 After removal of core hysteresis—² Without offset —³ Time between 10% input current full scale and 90% of sensor output full scale — ⁴ Without Thermal drift of offset

Electrical Performances





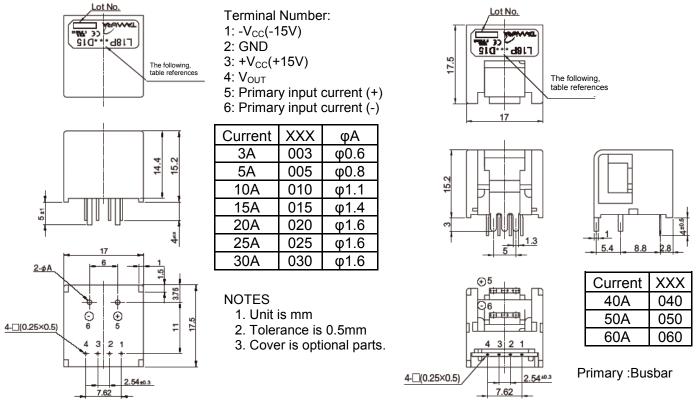


Tamura reserve the right to modify its products in order to improve them without prior notice

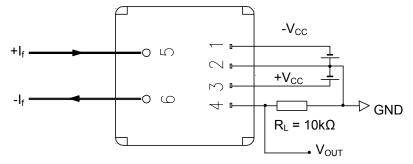


Hall Effect Current Sensors L18P***D15 Series

Mechanical dimensions



Electrical connection diagram



UL Standard

UL 508 , CSA C22.2 No.14 (UL FILE No.E243511)

• For use in Pollution Degree 2 Environment.

• Maximum Surrounding air temperature rating, 80°C.

Package & Weight Information

nominal current	Weight	Pcs/box	Pcs/carton	Pcs/pallet
10A60A	8g	100	600	12000
3A , 5A	8g	50	1200	28800







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