



Hall Effect Current Sensors L08P***D15 Series

Features:

- Open Loop type
- Printed circuit board mounting
- 5 pin PCB connection
- Bipolar power supply
- Insulated plastic case according to UL94V0

Advantage:

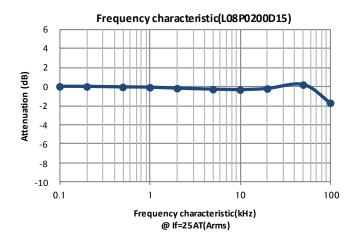
- **Excellent accuracy**
- Very good linearity
- Low temperature drift
- No insertion loss
- High Immunity To External Interference
- Current overload capability

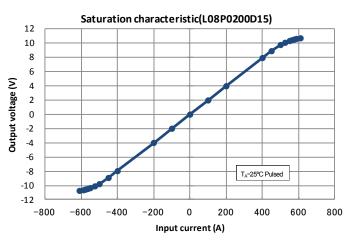
Specifications

Parameters	Symbol	L08P050D15	L08P100D15	L08P150D15	L08P200D15
Primary nominal current	I _f	50AT	100AT	150AT	200AT
Saturation current	I _{fmax}	≥ ±150AT	≥ ±300AT	≥ ±450AT	≥ ±450AT
Rated output voltage	V _o	4V ±0.040V (at If)			
Offset voltage ¹	V _{of}	≤ ±0.030V (at If = 0A)			
Output Linearity ² (0A~If)	ε _L	≤ ±1% (at If)			
Power supply voltage	V _{cc}	±15V±5%			
Consumption current	lcc	12mA typ.			
Response time ³	t _r	≤10µs (at di/dt = 100A / µs)			
Thermal drift of gain⁴	TcVo	≤ ±0.1% / °C	≤ ±0.05% / °C		
Thermal drift of offset	TcVof	≤ ±2mV / °C	≤ ±1mV / °C		
Hysteresis error(at If=0A→If→0A)	V _{OH}	≤ 30mV	≤ 20mV		
Insulation voltage	V _d	AC2500V for 1minute (sensing current 0.5mA), inside of through hole ⇔ terminal			
Insulation resistance	R _{IS}	≥ 500M Ω (at DC500V), inside of through hole \Leftrightarrow terminal			
Ambient operation temperature	T _A	-10°C~+80°C			
Ambient storage temperature	Ts	-20°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





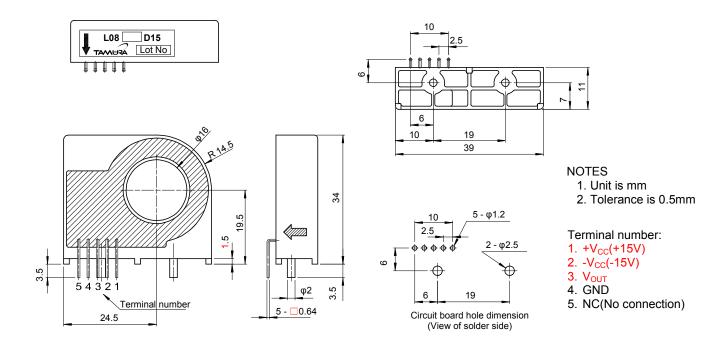




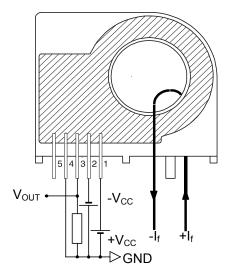


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Mechanical dimensions in mm



Electrical connection diagram



Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet
20g	50	500	9000



