



Hall Effect Current Sensors L08P***D15M1 Series

Features:

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

Advantages:

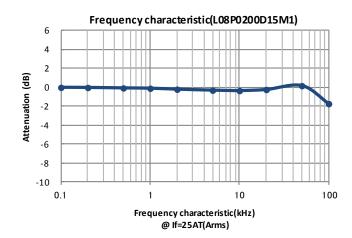
- Excellent accuracy
- Very good linearity
- Low temperature drift
- No insertion loss
- High Immunity To External Interference
- Current overload capability

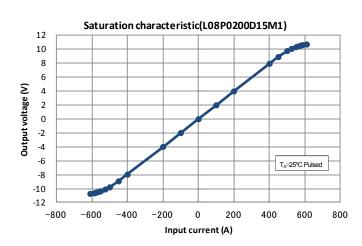
Specifications $T_A=25^{\circ}C, V_{CC}=\pm15V, R_L=10k\Omega$

Parameters	Symbol	L08P050D15M1	L08P100D15M1	L08P150D15M1	C, V _{CC} =±15V, R _L =10κΩ L08P200D15M1
Primary nominal current	I _f	50AT	100AT	150AT	200AT
Saturation current	I _{fmax}	≥ ±150AT	≥ ±300AT	≥ ±450AT	≥ ±450AT
Rated output voltage	Vo	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 gain ⁴	TcVo	≤ ± 0.1% / °C	≤ ± 0.05% / °C		
Thermal drift of offset	TcVof	≤ ± 2m V / °C		≤ ± 1mV / °C	
Hysteresis error(at If=0A→If→0A)	V _{OH}	≤ 30mV		≤ 20mV	
Insulation voltage	V_{d}	AC 2500V 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





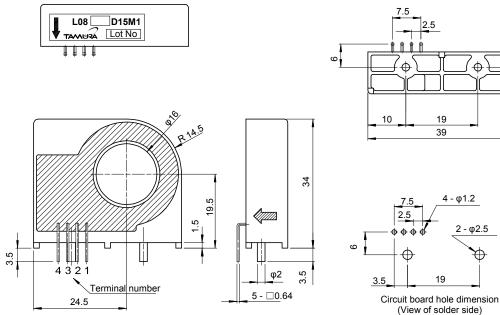


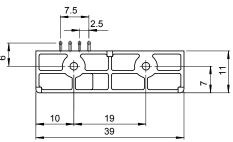




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Mechanical dimensions





2 - φ2.5

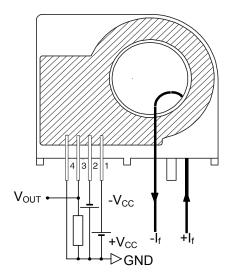
Terminal number: 1. $+V_{CC}(+15V)$ 2. -V_{CC}(-15V) 4 - φ1.2

- 3. V_{OUT}
- 4. GND

NOTES

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

Electrical connection diagram



Package & Weight Information

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





Mouser Electronics

Authorized Distributor

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Tamura:

L08P150D15M1 L08P050D15M1 L08P200D15M1 L08P100D15M1