

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

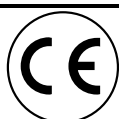
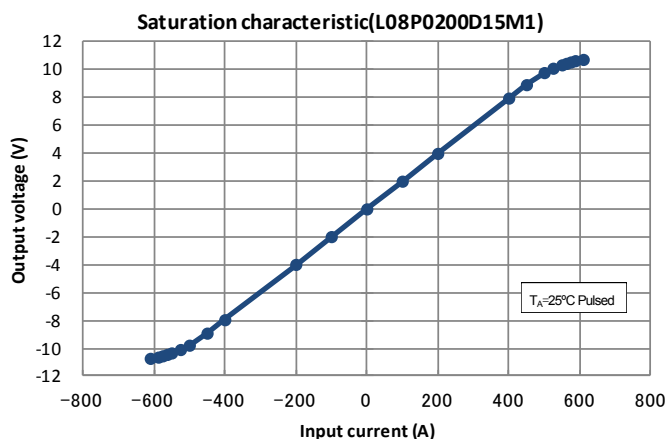
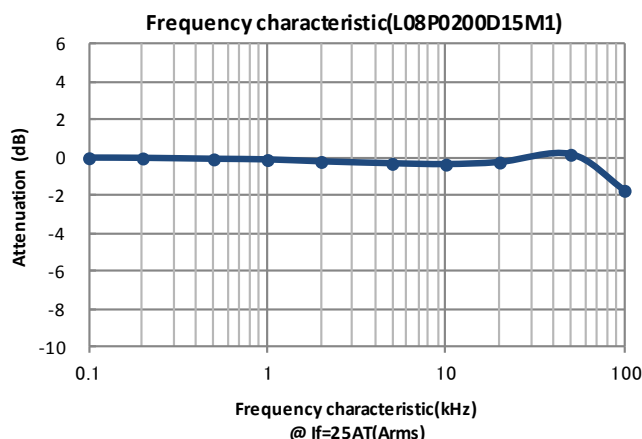
Specifications

 $T_A=25^{\circ}\text{C}$, $V_{CC}=\pm 15\text{V}$, $R_L=10\text{k}\Omega$

Parameters	Symbol	L08P050D15M1	L08P100D15M1	L08P150D15M1	L08P200D15M1
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 I _f)			
Offset voltage ¹	V _{of}	≤ ± 0.030V (at I _f = 0A)			
Output linearity ² (0A~I _f)	ε _L	≤ ± 1% (at I _f)			
Power supply voltage	V _{CC}	±15V ± 5%			
Consumption current	I _{cc}	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 I _f =0A→I _f →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}	> 500MΩ (at DC500V) , inside of through hole ⇔ terminal			
Ambient operation temperature	T _A	-10°C ~ +80°C			
Ambient storage temperature	T _S	-20°C ~ +85°C			

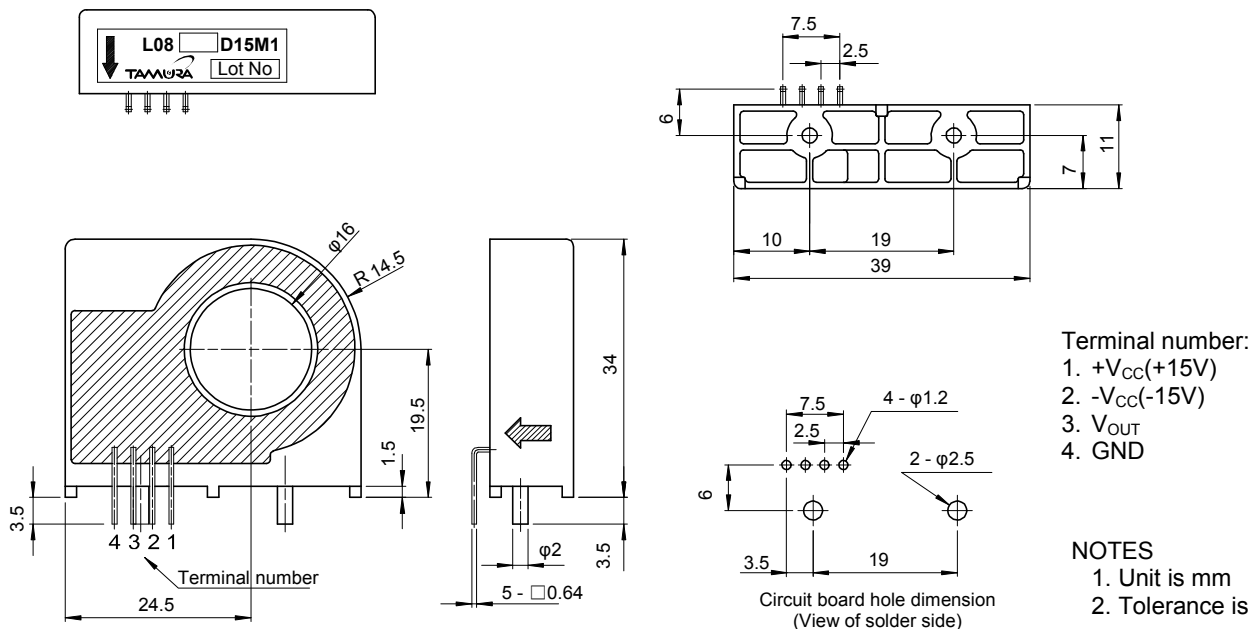
¹ After removal of core hysteresis — ² Without offset — ³ Time between 10% input current full scale and 90% of sensor output full scale — ⁴ Without Thermal drift of offset

Electrical Performances

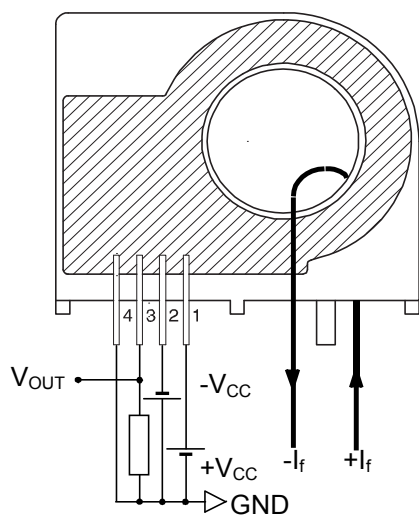


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Mechanical dimensions



Electrical connection diagram



Package & Weight Information

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

