



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:

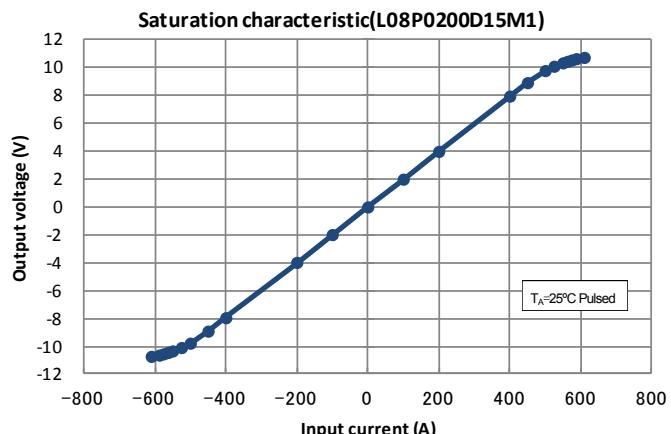
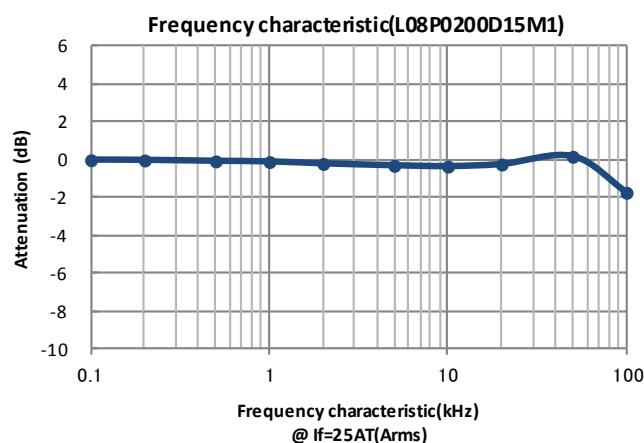
- Excellent accuracy
- Very good linearity
- Low temperature drift
- No insertion loss
- High Immunity To External Interference
- Current overload capability

Specifications

Parameters	Symbol	L08P050D15M1	L08P100D15M1	L08P150D15M1	L08P200D15M1
Primary nominal current	I_f	50AT	100AT	150AT	200AT
Saturation current	$I_{f\max}$	$\geq \pm 150AT$	$\geq \pm 300AT$	$\geq \pm 450AT$	$\geq \pm 450AT$
Rated output voltage	V_o		$4V \pm 0.040V$ (at I_f)		
Offset voltage ¹	V_{of}		$\leq \pm 0.030V$ (at $I_f = 0A$)		
Output linearity ² (0A~ I_f)	ϵ_L		$\leq \pm 1\%$ (at I_f)		
Power supply voltage	V_{cc}		$\pm 15V \pm 5\%$		
Consumption current	I_{cc}		12mA typ.		
Response time ³	t_r		$\leq 10\mu s$ (at $di/dt = 100A/\mu s$)		
Thermal drift of gain ⁴	T_{cVo}	$\leq \pm 0.1\% / ^\circ C$		$\leq \pm 0.05\% / ^\circ C$	
Thermal drift of offset	T_{cVof}	$\leq \pm 2mV / ^\circ C$		$\leq \pm 1mV / ^\circ C$	
Hysteresis error(at $I_f=0A \rightarrow I_f \rightarrow 0A$)	V_{OH}	$\leq 30mV$		$\leq 20mV$	
Insulation voltage	V_d	AC 2500V for 1minute (sensing current 0.5mA), inside of through hole \Leftrightarrow terminal			
Insulation resistance	R_{IS}		$> 500M\Omega$ (at DC500V), inside of through hole \Leftrightarrow terminal		
Ambient operation temperature	T_A			$-10^\circ C \sim +80^\circ C$	
Ambient storage temperature	T_s			$-20^\circ C \sim +85^\circ C$	

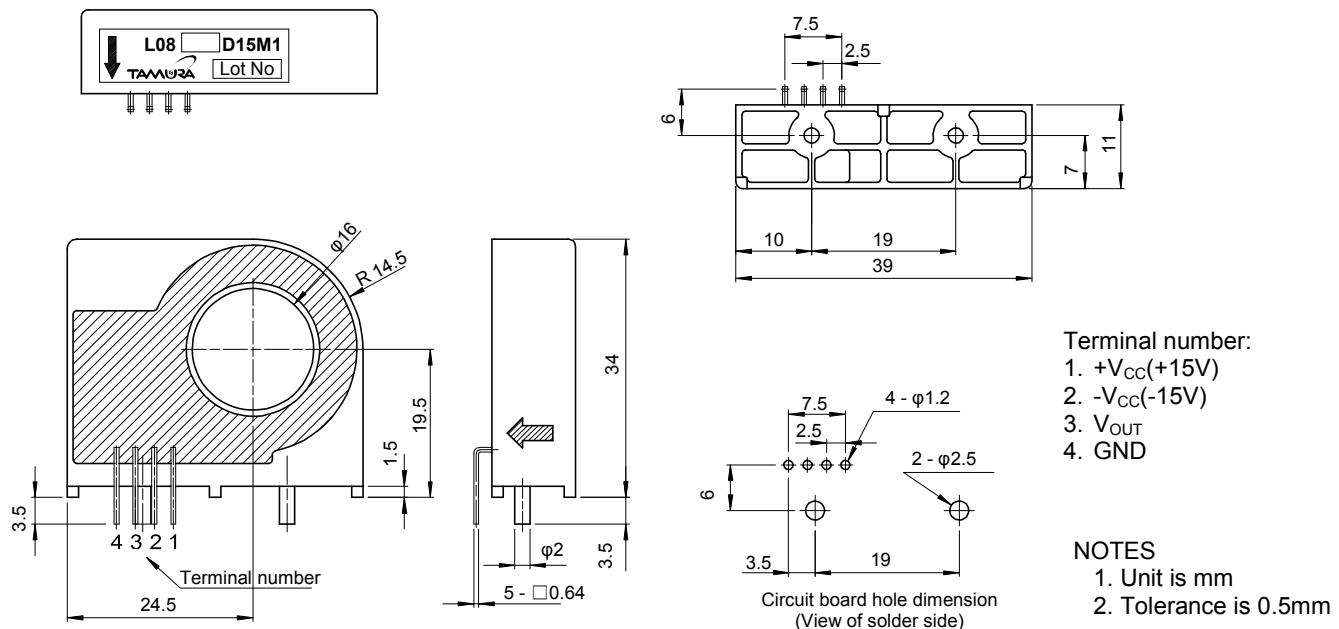
¹ After removal of core hysteresis — ² Without offset — ³ Time between 10% input current full scale and 90% of sensor output full scale — ⁴ Without Thermal drift of offset

Electrical Performances

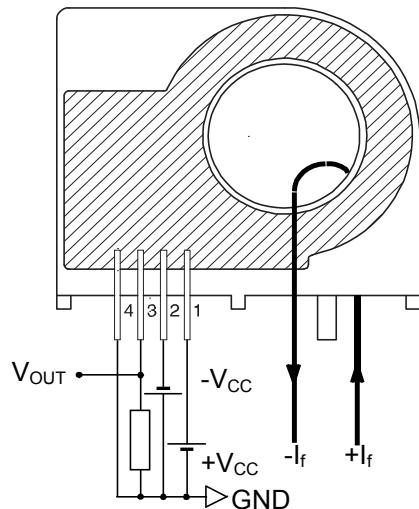


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Mechanical dimensions



Electrical connection diagram



Package & Weight Information

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

