

# 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

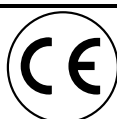
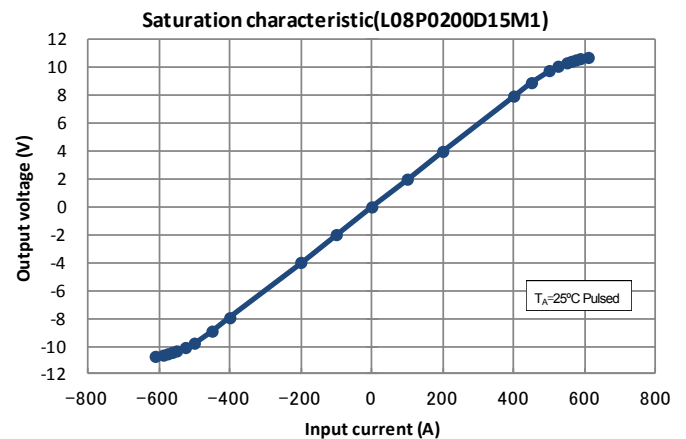
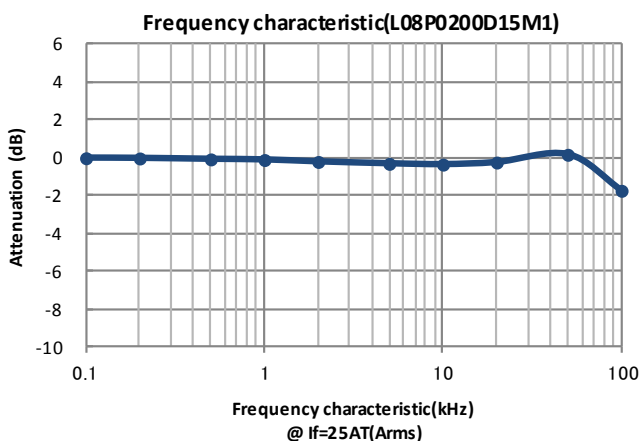
## Specifications

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

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

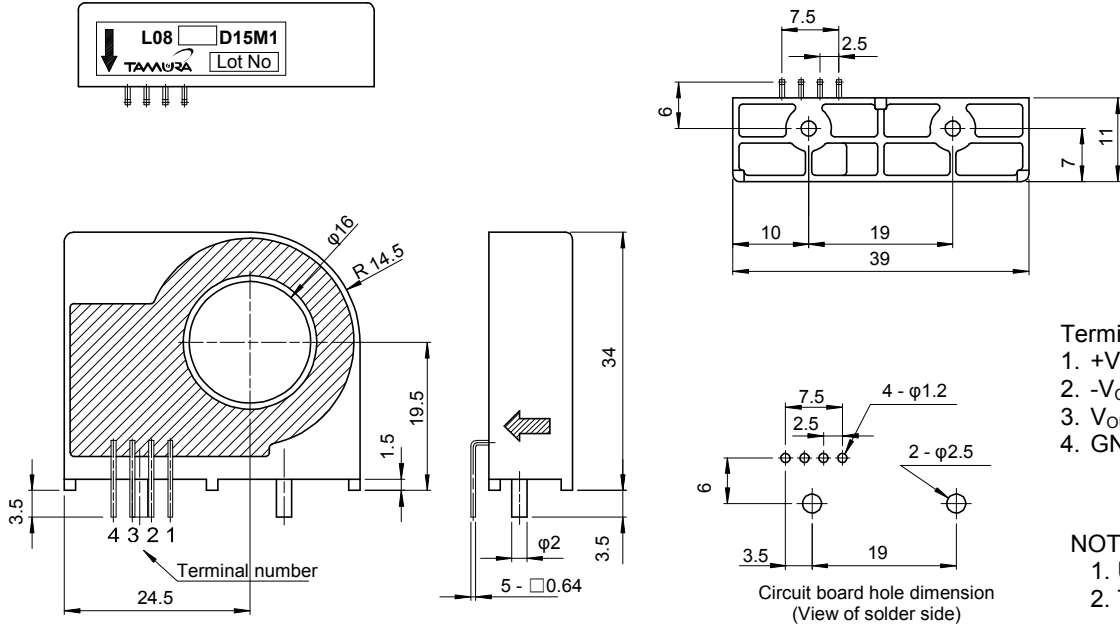
<sup>1</sup> After removal of core hysteresis — <sup>2</sup> Without offset — <sup>3</sup> Time between 10% input current full scale and 90% of sensor output full scale — <sup>4</sup> Without Thermal drift of offset

## Electrical Performances

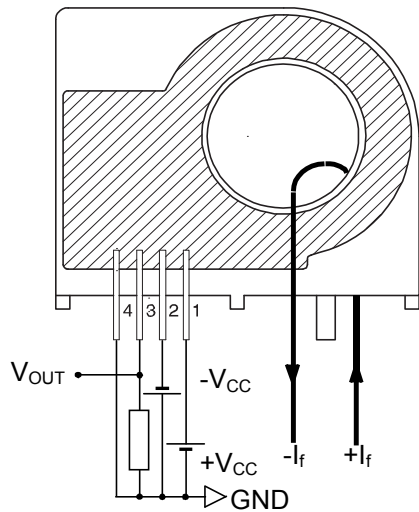


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## Mechanical dimensions

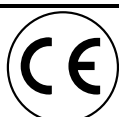


## Electrical connection diagram



## Package & Weight Information

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



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