



## 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:

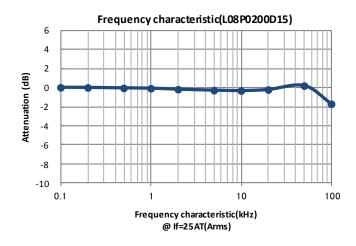
- Excellent accuracy
- Very good linearity
- Low temperature drift
- No insertion loss
- High Immunity To External Interference
- Current overload capability

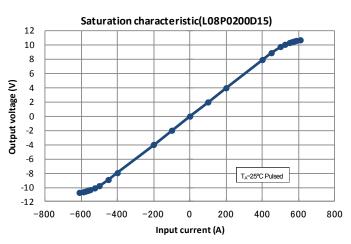
Specifications  $T_A=25^{\circ}C, V_{CC}=\pm15V, R_L=10k\Omega$ 

Parameters	Symbol	L08P050D15	L08P100D15	L08P150D15	L08P200D15	
Primary nominal current	I <sub>f</sub>	50AT	100AT	150AT	200AT	
Saturation current	I <sub>fmax</sub>	≥ ±150AT	≥ ±300AT	≥ ±450AT	≥ ±450AT	
Rated output voltage	V <sub>o</sub>	4V ±0.040V (at If)				
Offset voltage <sup>1</sup>	V <sub>of</sub>	≤ ±0.030V (at If = 0A)				
Output Linearity <sup>2</sup> (0A~If)	ε <sub>L</sub>	≤ ±1% (at If)				
Power supply voltage	V <sub>cc</sub>	±15V±5%				
Consumption current	lcc	12mA typ.				
Response time <sup>3</sup>	t <sub>r</sub>	≤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 <sub>OH</sub>	≤ 30mV		≤ 20mV		
Insulation voltage	V <sub>d</sub>	AC2500V for 1minute (sensing current 0.5mA), inside of through hole ⇔ terminal				
Insulation resistance	R <sub>IS</sub>	≥ 500MΩ (at DC500V) , inside of through hole ⇔ terminal				
Ambient operation temperature	TA	-10°C~+80°C				
Ambient storage temperature	Ts	-20°C~+85°C				

<sup>&</sup>lt;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**





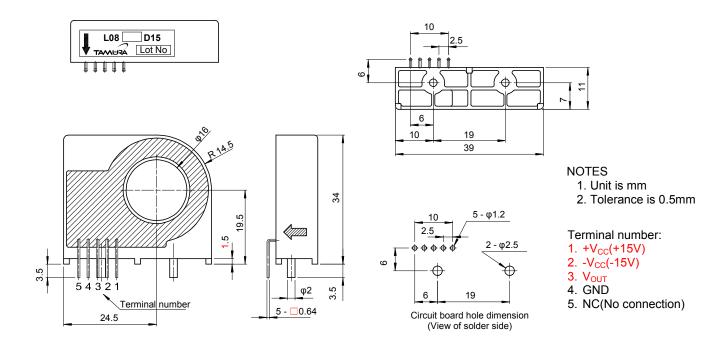




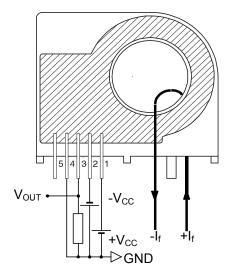


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## **Mechanical dimensions in mm**



# **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:

L08P150D15 L08P200D15 L08P050D15