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

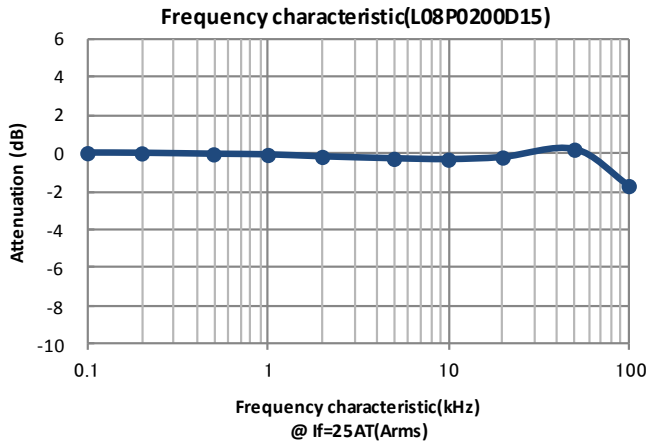
Specifications

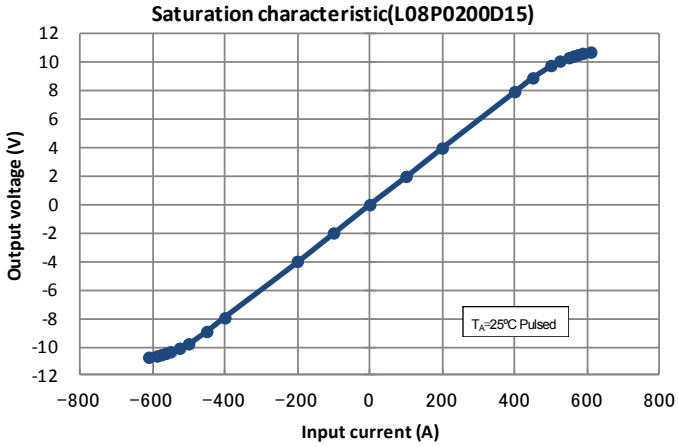
T_A=25ºC, V_{CC}=±15V, R_L=10kΩ

Parameters	Symbol	L08P050D15	L08P100D15	L08P150D15	L08P200D15
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 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	Icc	12mA typ.			
Response time[3]	t_r	≤10μs (at di/dt = 100A / μs)			
Thermal drift of gain[4]	TcVo	≤ ±0.1% / ºC	≤ ±0.05% / ºC		
Thermal drift of offset	TcVof	≤ ±2mV / ºC	≤ ±1mV / ºC		
Hysteresis error(at If=0A→If→0A)	V_{OH}	≤ 30mV	≤ 20mV		
Insulation voltage	V_d	AC2500V 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	-10ºC~+80ºC			
Ambient storage temperature	T_S	-20ºC~+85ºC			

[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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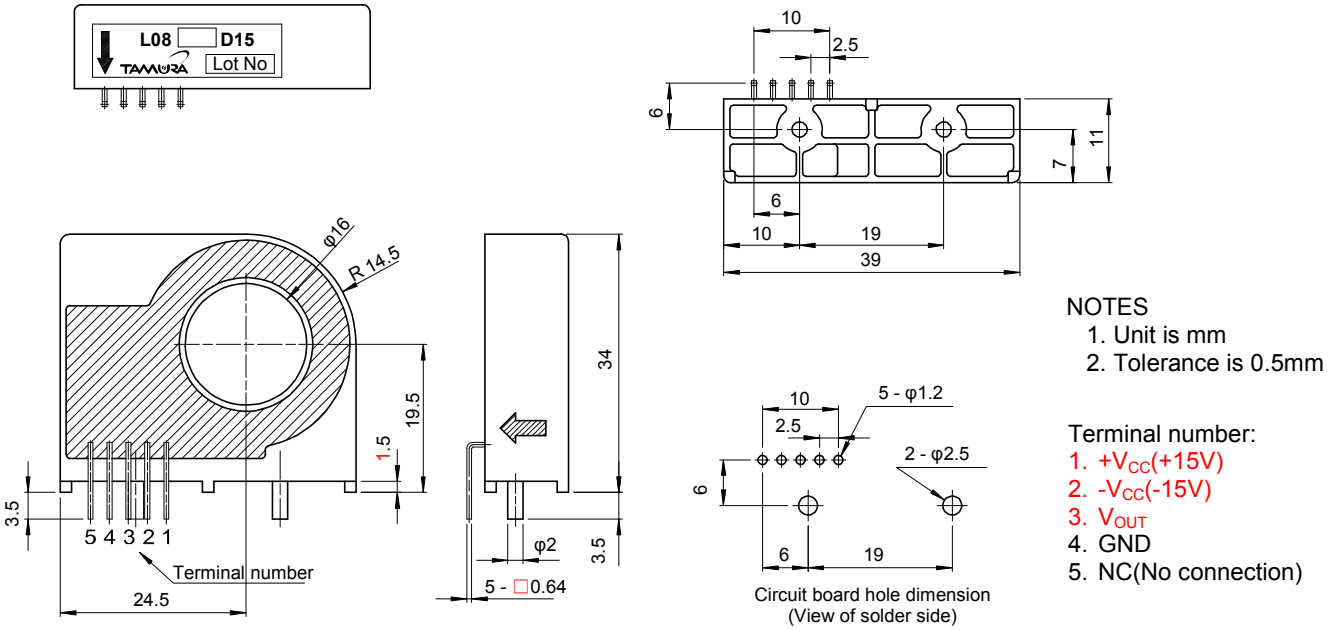
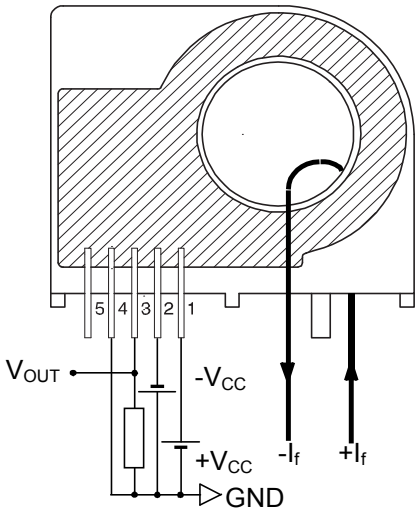
Mechanical dimensions in mm



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

Terminal number:
1. $+V_{CC}$(+15V)
2. $-V_{CC}$(-15V)
3. V_{OUT}
4. GND
5. NC(No connection)

Electrical connection diagram



Package & Weight Information

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