





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:

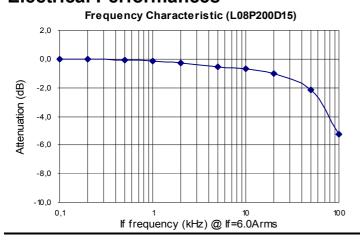
- Excellent accuracy
- Very good linearity
- · Low temperature drift
- No insertion loss
- High Immunity To External Interference
- Current overload capability

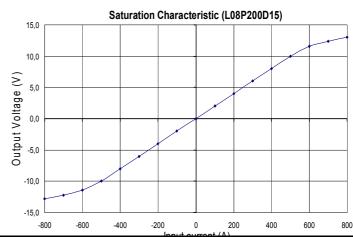
Specifications $T_A=25^{\circ}C, V_{CC}=\pm15V, R_L=10k\Omega$

Opecifications				1A=23	C , V_{CC} =±15 V , R_L =10 $K\Omega$
Parameters	Symbol	L08P050D15	L08P100D15	L08P150D15	L08P200D15
Nominal Primary DC current	I _f	50AT	100AT	150AT	200AT
Maximum Current	I _{fmax}	±150AT	±300AT	±450AT	±500AT
Output Voltage	V _{out}	4V±0.040V @ ±I _f			
Offset Voltage	V _{OE}	<±30mV @ I _f = 0A			
Accuracy ¹	х	±1% @ I _f			
Output Linearity ¹	٤٤	≤±1% @ I _f			
Power Supply	V _{cc}	±15V±5%			
Consumption Current	Ic	≤12mA			
Response Time ²	t _r	≤10µs (@ di/dt = 50A / µs)			
Output Temperature Characteristic ¹	TCV _{OUT}	<±2mV/°C	<±1mV/°C		
Offset Temperature Characteristic	TCV _{OE}	<±2mV/°C	<±1mV/°C		
Hysteresis error	V _{OH}	≤30mV (0A ⇔ I _f)	≤20mV (0A ⇔ I _f)		
Withstand Voltage	V _d	AC2500V for 1minute (sensing current 0.5mA), inside of through hole ⇔ terminal			
Insulation Resistance	R _{IS}	> 500MΩ (500V DC), inside of through hole ⇔ terminal			
Frequency Bandwidth ³	f	DC 35kHz			
Operating Temperature	T _A	-10°C~+80°C			
Storage Temperature	Ts	-20°C~+85°C			

¹ Without offset — ² Time between 10% input current full scale and 90% of sensor output full scale — ³ Small signal only to avoid excessive heating of magnetic core

Electrical Performances







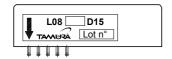


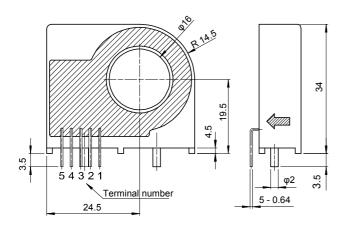


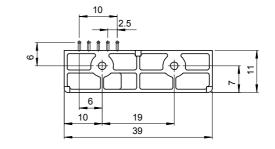


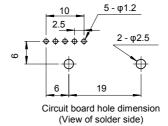
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Mechanical dimensions in mm





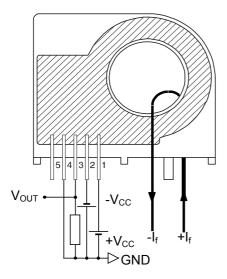




Terminal number:

- 1. +15V
- 2. -15V
- 3. OUT
- 4. GND
- 5. NC

Electrical connection diagram



Package & Weight Information

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





