

Hall Effect Current Sensors L08P***D15W / IPV



Features:

- Open Loop type
- Printed circuit board mounting
- 4 pin PCB connection
- Bipolar power supply
- Extended measurement range
- 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

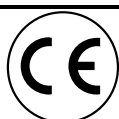
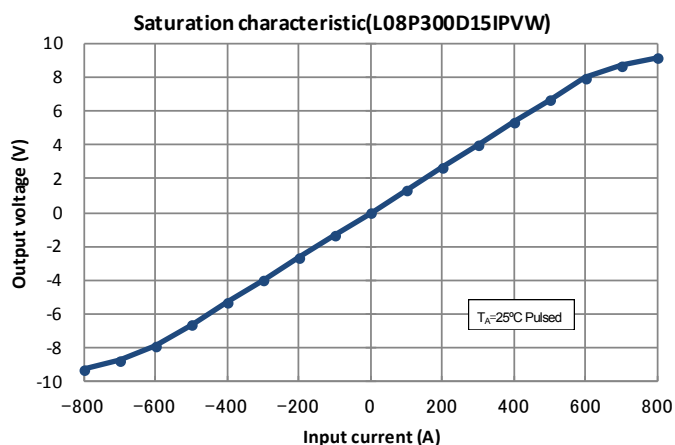
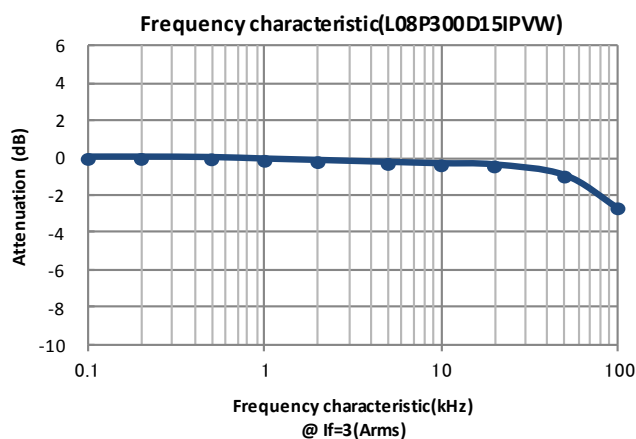
Specifications

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

Parameters	Symbol	L08P100D15IPV	L08P200D15W	L08P300D15IPVW
Primary nominal current	I_f	100AT	200AT	300AT
Saturation current	I_{fmax}	$\geq \pm 300\text{AT}$	$\geq \pm 600\text{AT}$	$\geq \pm 600\text{AT}$
Rated output voltage	V_o	$4\text{V} \pm 0.040\text{V}$ (at I_f)		
Offset voltage ¹	V_{of}	$\leq \pm 0.030\text{V}$ (at $I_f = 0\text{A}$)		
Output linearity ² (0A~ I_f)	ϵ_L	$\leq \pm 1\%$ (at I_f)		
Power supply voltage	V_{CC}	$\pm 15\text{V} \pm 5\%$		
Consumption current	I_{CC}	$\leq 20\text{mA}$		
Response time ³	t_r	$\leq 5\mu\text{s}$ (at $di/dt = 100\text{A} / \mu\text{s}$)		
Thermal drift of gain ⁴	$TcVo$	$\leq \pm 0.05\% / ^{\circ}\text{C}$		
Thermal drift of offset	$TcVof$	$\leq \pm 1.0\text{mV} / ^{\circ}\text{C}$		
Hysteresis error	V_{OH}	$\leq 20\text{mV}$ (at $I_f=0\text{A} \rightarrow I_f \rightarrow 0\text{A}$)		
Insulation voltage	V_d	AC 2500V for 1minute (sensing current 0.5mA), inside of through hole $\leftrightarrow$ terminal		
Insulation resistance	R_{IS}	$\geq 500\text{M}\Omega$ (at DC500V), inside of through hole $\leftrightarrow$ terminal		
Ambient operation temperature	T_A	$-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$		
Ambient storage temperature	T_S	$-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$		

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

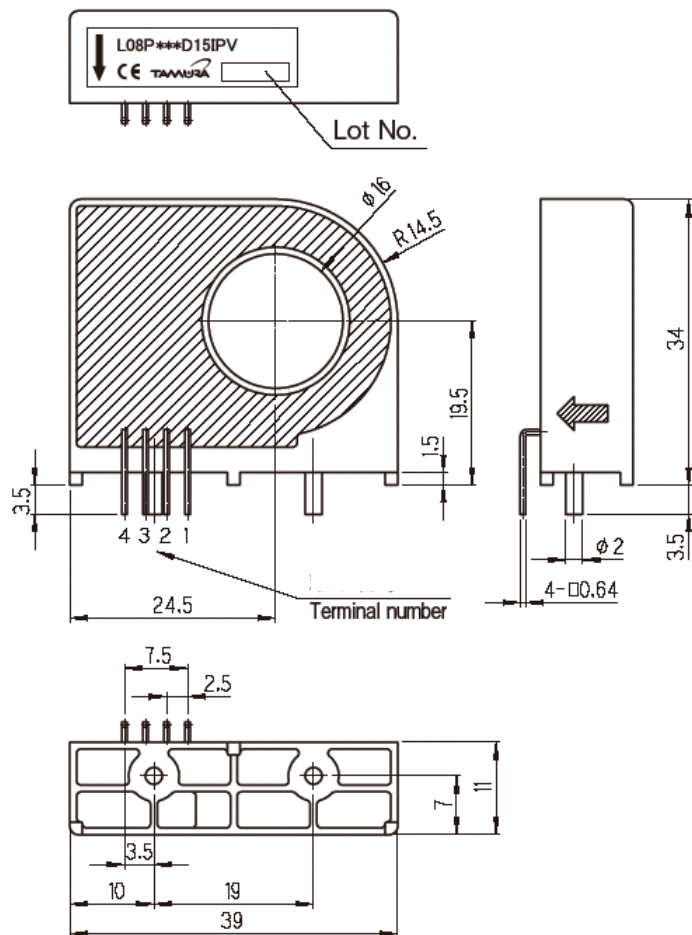
Electrical Performances



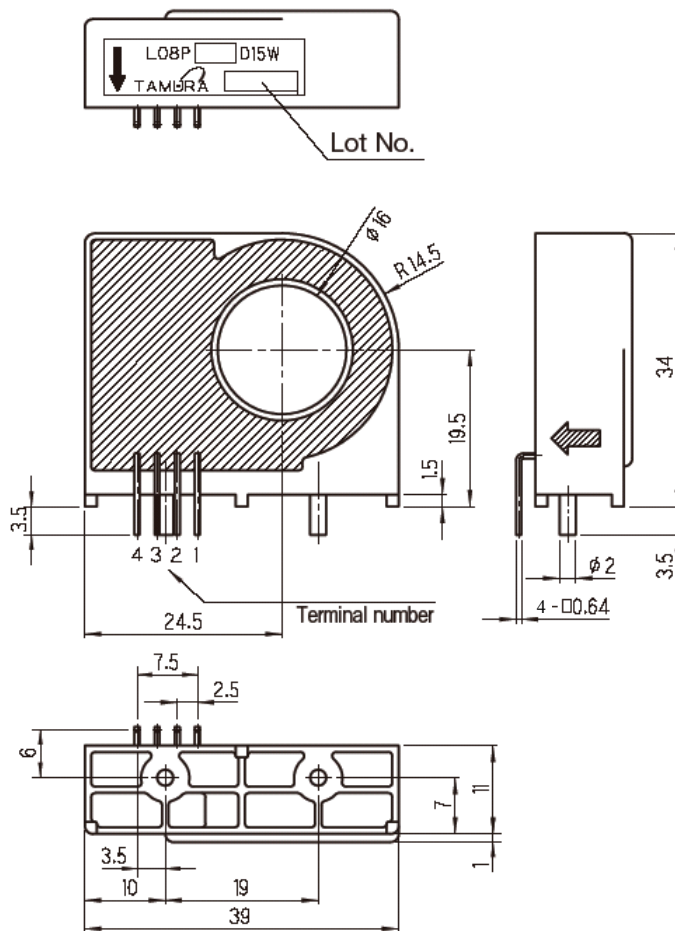
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Mechanical dimensions

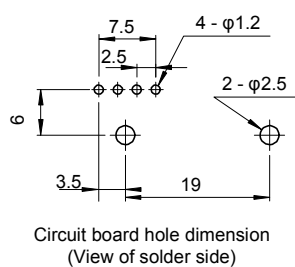
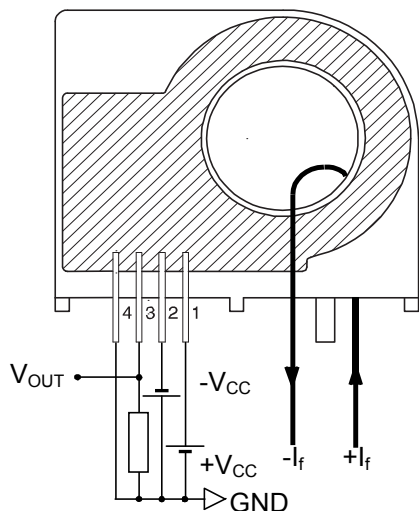
L08P100D15IPV



L08P200D15W L08P300D15IPVW



Electrical connection diagram



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

Package & Weight Information

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

