# 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

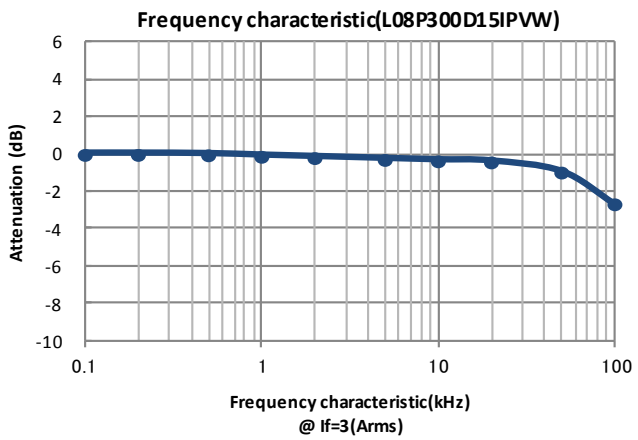
## Specifications

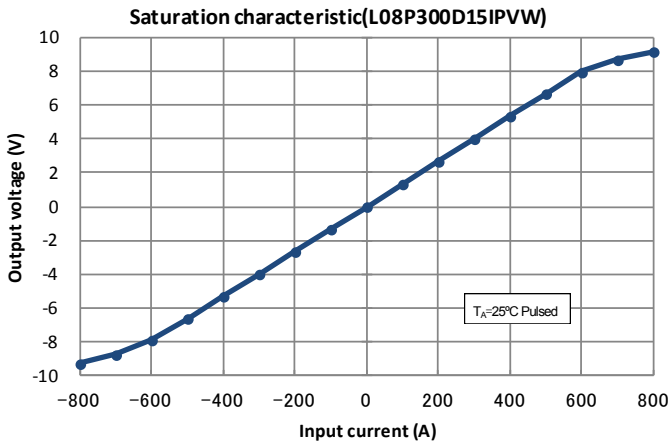
$T_A$=25ºC, $V_{CC}$=±15V, $R_L$=10kΩ

| Parameters | Symbol | L08P100D15IPV | L08P200D15W | L08P300D15IPVW |
|---|---|---|---|---|
| Primary nominal current | $I_f$ | 100AT | 200AT | 300AT |
| Saturation current | $I_{fmax}$ | ≥ ±300AT | ≥ ±600AT | ≥ ±600AT |
| 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) | $\varepsilon_L$ | ≤ ±1% (at If) | | |
| Power supply voltage | $V_{CC}$ | ±15V ± 5% | | |
| Consumption current | Icc | ≤ 20mA | | |
| Response time[3] | $t_r$ | ≤ 5μs (at di/dt = 100A / μs) | | |
| Thermal drift of gain[4] | TcVo | ≤ ± 0.05% /ºC | | |
| Thermal drift of offset | TcVof | ≤ ± 1.0mV /ºC | | |
| Hysteresis error | $V_{OH}$ | ≤ 20mV (at If=0A→If→0A) | | |
| Insulation voltage | $V_d$ | AC 2500V 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 | $T_A$ | -20ºC ~ +80ºC | | |
| Ambient storage temperature | $T_S$ | -25ºC ~ +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

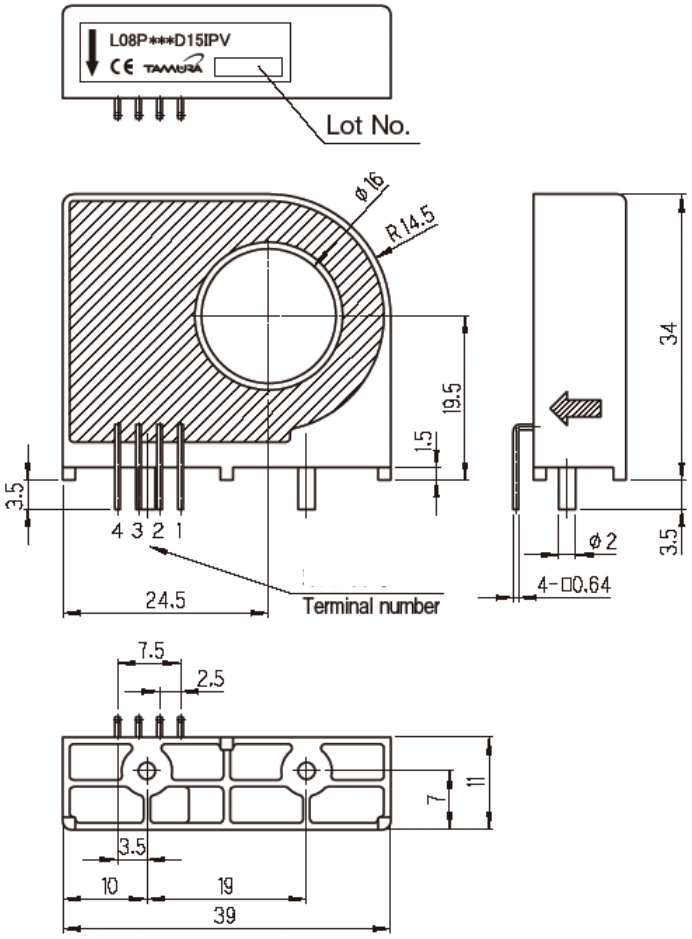


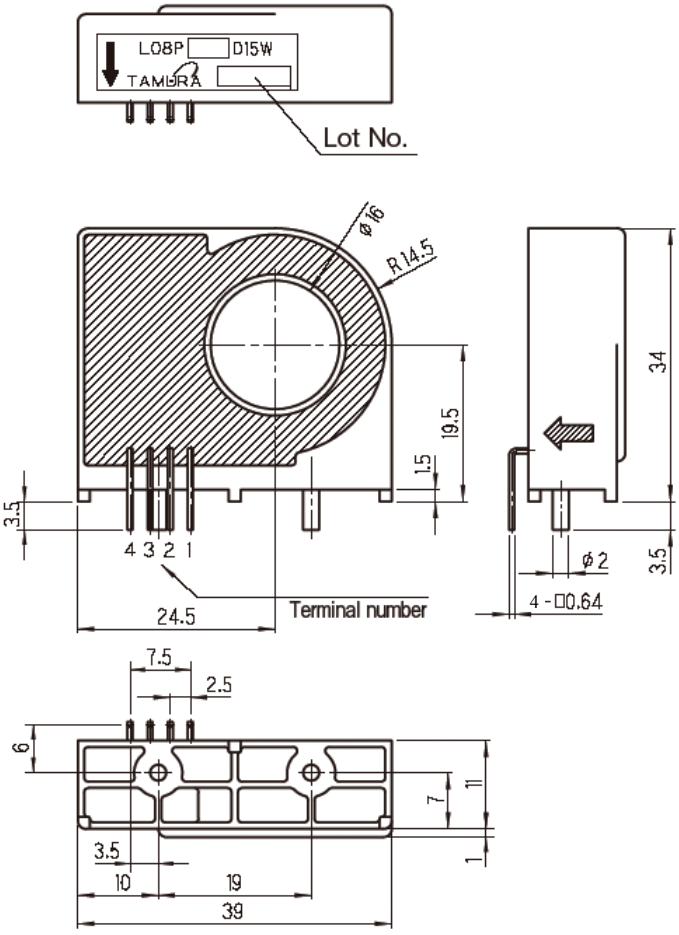
# Hall Effect Current Sensors L08P***D15W / IPV

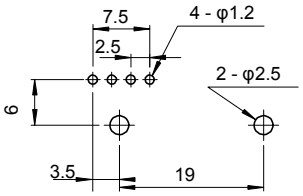
## Mechanical dimensions

**L08P100D15IPV**




**L08P200D15W L08P300D15IPVW**



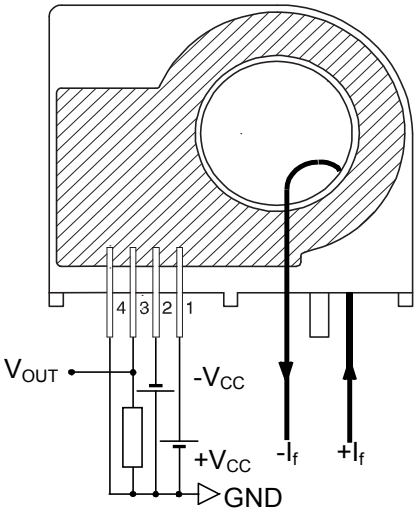




Circuit board hole dimension
(View of solder side)

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

## Electrical connection diagram




## Package & Weight Information

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