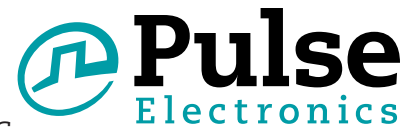


SMT CURRENT SENSE TRANSFORMER



- Storage Temperature:** -55°C to +130°C
- Reflow Temperature:** +235°C Max
- ITAR:** No **MSL:** 1
- MTBF:** 2,880 Years IAW Mil-HBK-217F Ground Benign Environment
- Height:** 7.1mm Max
- Footprint:** 14.6mm x 12.6mm Max
- Current Rating:** up to 15A
- Frequency Range:** 50kHz to 500kHz

Electrical Specifications 25°C — Operating Temperature -40°C to +130°C ¹¹

Part Number	Turns Ratio	Current ² Rating (A)	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (VRMS)
				Primary (1,3-2,4)	Secondary (5-6)	
PL1349	1:100	15	14.8	1.15	930	500

Notes:

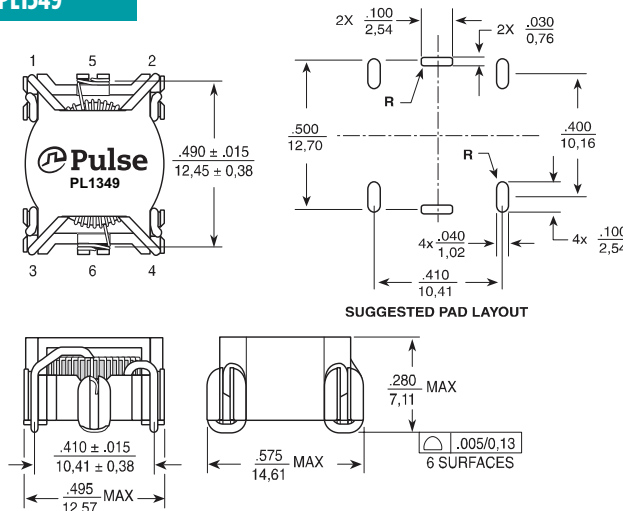
- The temperature of the component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
- The maximum current rating is based upon temperature rise of the component and represents the dc current which will cause a typical temperature rise of 40°C with no air flow when both one turn windings connected in parallel.
- To calculate the value of the terminating resistor (Rt) use the following formula:

$$R_t (\Omega) = V_{REF} * N / (I_{peak_primary})$$
- The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for a uni-polar current use the following formula:

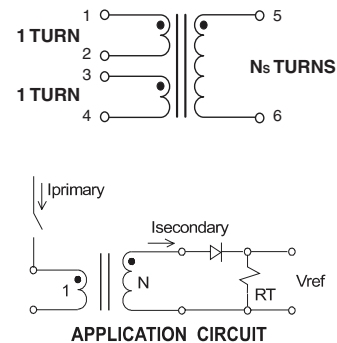
$$BPK = 14.29 * V_{REF} * (Duty_Cycle_Max) * 105 / (N * Freq_kHz)$$
* for bi-polar current applications divide BPK as calculated above by 2.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL1349 becomes PL1349T). Pulse complies to industry standard tape and reel specification EIA481.
- The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact Pulse for availability.

Mechanical

PL1349



Schematic



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