SMT Current Sense Transformers





Height: 5.1mm Max*

Footprint: 8.4mm x 7.2mm Max

Current Rating: up to 20A

Frequency Range: 50kHz to 1MHz
 Low Primary DCR version of P820X

Lead Finish: Sn63/Pb37

Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C									
		Current ²	Secondary	\mathbf{DCR} (m Ω Max)					
Part⁵	Turns	Rating	Inductance	Primary	Secondary	Hipot			
Number	Ratio	(A)	(mH MIN)	(8-7)	(1-3)	(V _{RMS})			
PL2035	1:50	20	0.5	0.75	1500	500			

Notes:

- 1. The temperature of component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
- 2. 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 airflow when both one turn windings connected in parallel.
- 3. To calculate value of terminating resistor (Rt) use the following formula: RT $(\Omega) = V_{REF} * N / (Ipeak primary)$
- 4. The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for uni-polar current use following formula:

Bpk = $37.59 * VREF * (Duty_Cycle_Max) * <math>10^5 / (N * Freq_kHz)$

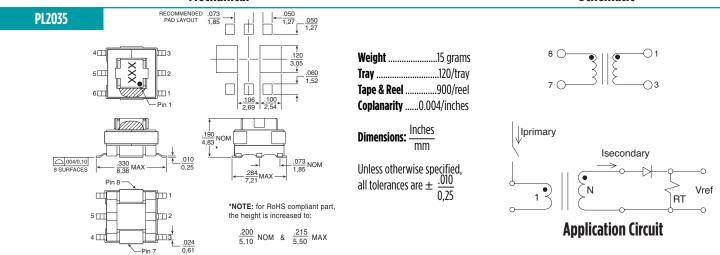
- * for bi-polar current applications divide Bpk (as calculated above) by 2.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL2035 becomes PL2035T). Pulse complies to industry standard tape and reel specification EIA481.

Mechanical

Schematic

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