SMT CURRENT SENSE TRANSFORMERS Low Primary DCR



Ruggedized

Height: 5.5mm Max

Footprint: 8.4mm x 7.2mm Max

Current Rating: up to 20A

Frequency Range: 50kHz to 1MHz

Surface Mount Package - Pick and Place Compatable

Varnished Windings

Ambient Operating Temperature: -55°C to +130°C

Storage Temperature: -55°C to +130°C

Isolation Voltage: 1000Vrms Max

Moisture Sensitivity Level: 1

Solder Reflow Processing: 235°C peak temperature

• Lead Finish: Hot Solder Dipped: Sn63%/Pb37%

Meets Environmental Requirements: MIL-PRF-27F Grade 5 Class

Space Grade vesions that meet workmanship IAW MIL-STD-981 are available on special request

Low Primary DCR

Electrical Specifications @ 25°C — Operating Temperature -55°C to +130°C						
Part ^{5,6} Number	Tums Ratio	Current ² Rating (A)	Secondary Inductance (mH MIN)	DCR (m Ω MAX)		Hipoţ
				Primary (8-7)	Secondary (1-3)	(Vrms)
PL3258	1:20	20	0.08	0.75	550	1000
PL3259	1:30	20	0.18	0.75	870	1000
PL3260	1:40	20	0.32	0.75	1140	1000
PL3261	1:50	20	0.50	0.75	1500	1000
PL3262	1:60	20	0.72	0.75	2500	1000
PL3263	1:70	20	0.98	0.75	4750	1000
PL3264	1:100	20	2.00	0.75	6000	1000
PL3265	1:125	20	3.00	0.75	7700	700
PL3479	1:200	20	8.00	0.75	17000	700

NOTES:

- 1. The temperature of the component (ambient temperature plus temperature rise) must be 4. The peak flux density of the device must remain below 2000 Gauss. To calculate the 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 air
- 3. To calculate the value of the terminating resistor (Rt) use the following formula: Rt (W) = VREF * N / (Ipeak primary)
- peak flux density for a uni-polar current use the following formula:

 BPK = 37.59 * VREF * (Duty_Cycle_Max) * 105 / (N * Freq_kHz)

 * for bi-polar current applications divide BPK as calculated above by 2.
- 5. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL3258 becomes PL3258T). Pulse complies to indstry standard tape and reel specifications EIA481.
- 6. The "NL" suffix indicates an RoHS-compliant part number.



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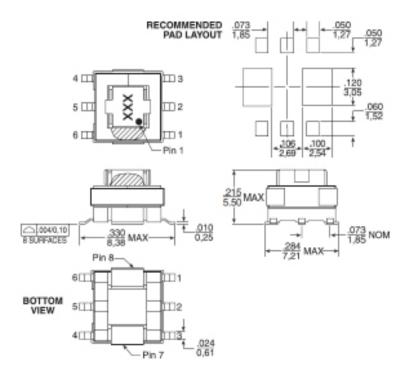
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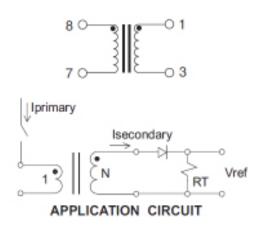


Ruggedized

Mechanical Schematic

PL325X





 Weight
 .0.34 grams

 Tray
 .120/tray

 Tape & Reel
 .900/reel

 Coplanarity
 0.004 inches

 Dimensions:
 Inches mm

 Unless otherwise specified, all tolerances are ± .010 0.25

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