

SMT Current Sense Transformer

P820X Series



- Height:** 5.5mm Max
- Footprint:** 8.4mm x 7.2mm Max
- Current Rating:** up to 10A
- Frequency Range:** 20kHz to 1MHz
- Lower Primary DCR version available:** PA1005.XXX series

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

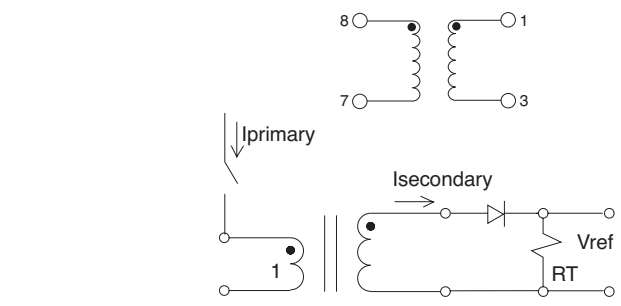
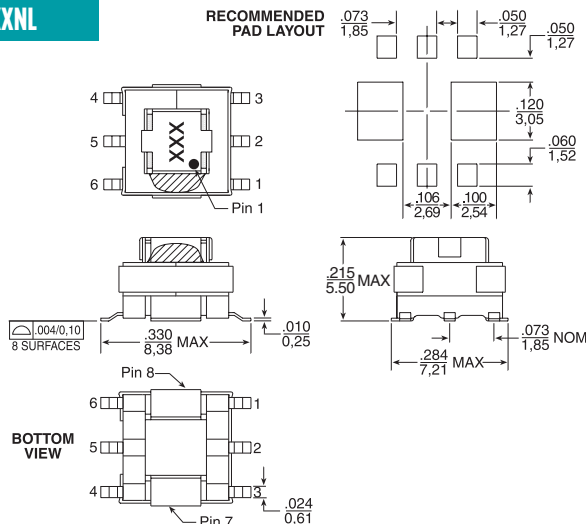
Part Number ^{6,7}	Turns Ratio	Current ² Rating (A)	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (V _{RMS})
				Primary (8-7)	Secondary (1-3)	
P8202NL	1:20	10	0.08	6	550	500
P8203NL	1:30	10	0.18	6	870	500
P8204NL	1:40	10	0.32	6	1140	500
P8205NL	1:50	10	0.50	6	1500	500
P8206NL	1:60	10	0.72	6	2250	500
P8207NL	1:70	10	0.98	6	4700	500
P8208NL	1:100	10	2.00	6	5500	500
P8209NL	1:125	10	3.00	6	6500	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 40C with no airflow.
 - 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 uni-polar current use following formula:
 $B_{PK} = 37.59 * V_{REF} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$
 * for bi-polar current applications divide B_{PK} (as calculated above) by 2.
 - Part number **P8222** to **P8229** are reverse polarity versions of **P820X**.
 - Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. P8202NL becomes P8202NLT). 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

Schematic

PXXXXNL



Weight0.34 grams
Tray120/tray
Tape & Reel900/reel
Coplanarity0.004 inches

Dimension: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{.025}$

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For More Information

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