SMT Current Sense Transformer

P820X Series





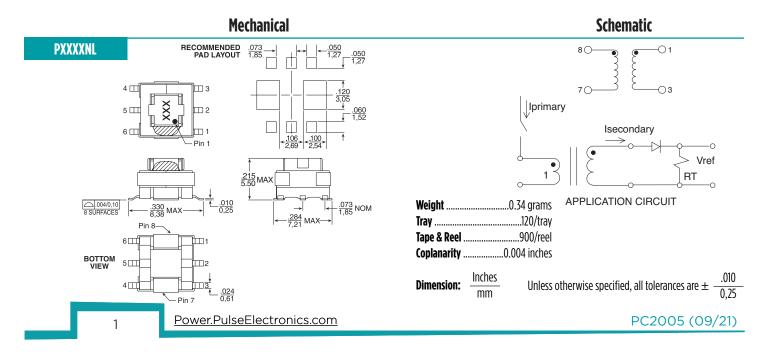
- 🕐 Height: 5.5mm Max
- 🕐 Footprint: 8.4mm x 7.2mm Max
- 🔗 Current Rating: up to 10A
- *P* Frequency Range: 20kHz to 1MHz

🕐 Lower Primary DCR version available: PA1005.XXX series

Part ^{6, 7} Number	Turns Ratio	Current ² Rating (A)	Secondary Inductance (mH MIN)	DCR (m Ω MAX)		Hipot
				Primary (8-7)	Secondary (1-3)	(V _{RMS})
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	6000	500
P8209NL	1:125	10	3.00	6	6500	500

Notes:

- 1. The temperature of the 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 40C with no airflow.
- 3. To calculate the value of the terminating resistor (Rt) use the following formula: Rt (Ω) = Vref * N / (lpeak_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:
- $B_{PK} = 37.59 * V_{REF} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$
- * for bi-polar current applications divide BPK (as calculated above) by 2.
- 5. Part number P8222 to P8229 are reverse polarity versions of P820X.
- 6. Optional Tape & Reel packaging can be ordered by adding a "**T**" suffix to the part number (i.e. P8202NL becomes P8202NL**T**). Pulse complies to industry standard tape and reel specification EIA481.
- 7. 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.



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For More Information:

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