

SMT Current Sense Transformers

PA0368.XXXNL



- Ⓢ **Height:** 3.3mm Max
- Ⓢ **Footprint:** 8.38mm x 8.38mm Max
- Ⓢ **Current Rating:** up to 4A
- Ⓢ **Frequency Range:** 50kHz to 1MHz

Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C⁶

Part ^{4,5} Number	Turns Ratio	Current ¹ Rating	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (V _{RMS})
				Primary	Secondary	
PA0368.050NL	1:50	4	1.7	4	900	500
PA0368.070NL	1:70	4	3.3	4	1200	500
PA0368.080NL	1:80	4	4.3	4	1400	500
PA0368.100NL	1:100	4	6.7	4	1600	500
PA0368.125NL	1:125	4	10.4	4	1900	500

Notes:

- 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.
- To calculate value of terminating resistor (Rt) use the following formula:

$$R_t (W) = V_{ref} * N / (I_{peak_primary})$$
- 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:

$$B_{pk} = 64.9 * V_{ref} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$$
 * 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. PA0368.050NL becomes PA0368.050NLT). 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.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature ranger.

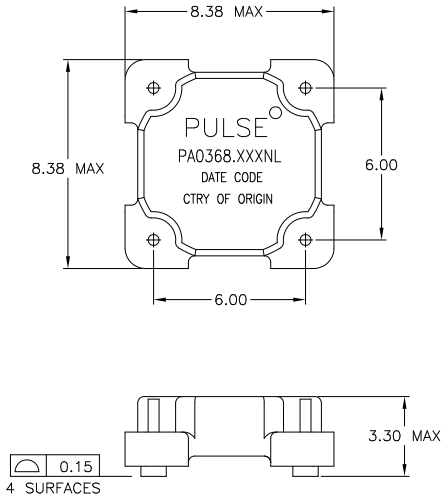
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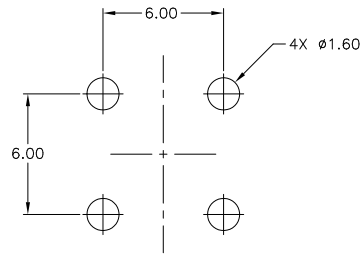
Mechanical

Schematic

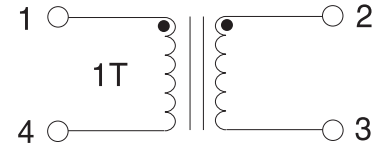
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FINAL OUTLINE



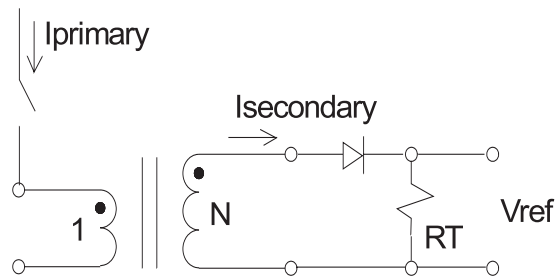
SUGGESTED LAND PATTERN



Weight0.30grams
Tape & Reel1100/reel

Dimensions: mm
Unless otherwise specified,
all tolerances are: ± 0.25

Application



APPLICATION CIRCUIT

For More Information:

Americas - prodinfo_power@pulseelectronics.com | Europe - power-apps-europe@pulseelectronics.com | Asia - power-apps-asia@pulseelectronics.com

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