## SMT CURRENT SENSE TRANSFORMERS PA0368NL Series





Height: 3.3mm Max

• Footprint: 8.4mm x 8.4mm Max

Current Rating: up to 4A

Frequency Range: 50kHz to 1MHz

Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C 6						
Part Number 4,5	Turns ratio	Current Rating <sup>1</sup>	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot
				Primary	Secondary	(VRMS)
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 on temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow.
- 2. To calculate the value of the terminating resistor (Rt) use the following formula: Rt ( $\Omega$ ) = VREF \* N / (Ipeak primary)
- 3. The peak flux density of device must remain below 2000 Gauss. To calculate the peak flux density for a uni-polar current, use the following formula: Bpk = 64.9 \* VREF \* (Duty Cycle Max) \* 10 5 / (N \* Freq kHz) \* for bi-polar current applications divide Bpk (as calculated above) by 2.
- 4. 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.
- 5. 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 range.

## **Mechanical**

## **Schematic**

