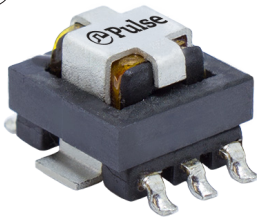


SMT Current Sense Transformer

PH9494.XXXNLT EE8 SMD Platform



- Ⓢ **Isolation:** 2250Vdc
- Ⓢ **Height:** 7.2mm Max
- Ⓢ **Footprint:** 12.8mm x 9.7mm Max
- Ⓢ **Current Rating:** up to 30A
- Ⓢ **Operating Frequency:** Greater than 20kHz

Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

Part Number	Turns Ratio ±0.95	Current ² Rating (A)	Secondary Inductance (mH Min)	DCR		Hipot (Vdc)
				Primary (8-7)(mΩ Max)	Secondary (1-3)(Ω Max)	
PH9494.050NLT	50	30	0.63	0.35	0.60	2250
PH9494.100NLT	100	30	2.50	0.35	3.00	2250
PH9494.150NLT	150	30	5.63	0.35	5.70	2250
PH9494.200NLT	200	30	10.0	0.35	10.0	2250

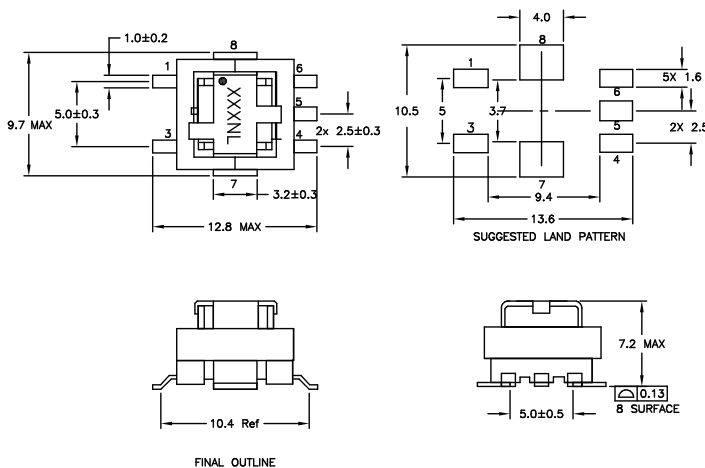
NOTES:

- The temperature of 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 40°C.
- To calculate value of terminating resistor (Rt) use the following formula:

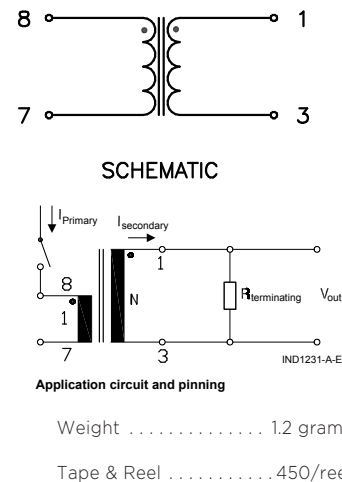
$$R_t (W) = V_{REF} * N / (I_{peak_primary})$$
- The peak flux density of the device must remain below 2200 Gauss. To calculate the peak flux density for uni-polar current use following formula:

$$B_{pk} = 11.88 * V_{REF} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$$
*for bi-polar current applications divide Bpk (as calculated above) by 2.
- Tape & Reel packaging . Pulse complies to industry standard tape and reel specification EIA481.

Mechanical



Schematic



Dimensions: mm

Unless otherwise specified, all tolerances are ± 0.25

SMT Current Sense Transformer

PH9494.XXXNLT EE8 SMD Platform

For More Information:

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

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