

# 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

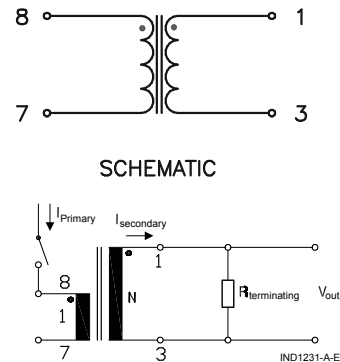
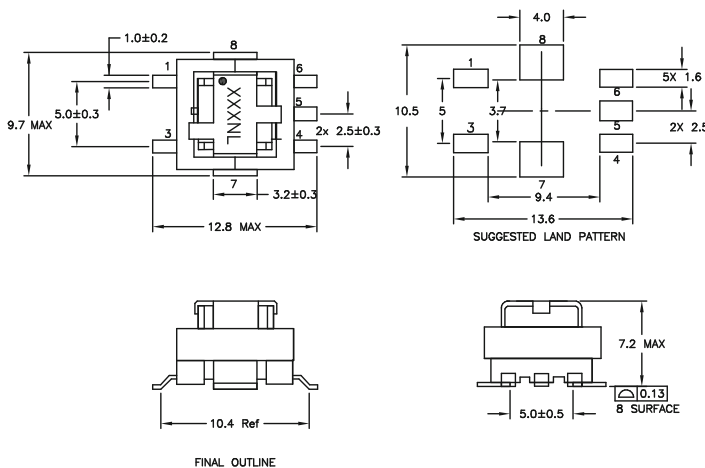
Part Number	Turns Ratio ±0.95	Current <sup>2</sup> Rating (A)	Secondary Inductance (mH Min)	DCR		Hipot (Vdc)
				Primary (8-7)(mΩ Max)	Secondary (1-3)(Ω Max)	
PH9494.050NLT	50	30	0.63	0.35	0.60	2250
PH9494.100NLT	100	30	2.50	0.35	3.00	2250
PH9494.150NLT	150	30	5.63	0.35	5.70	2250
PH9494.200NLT	200	30	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:  
 $B_{pk} = 18.8 * V_{REF} * (Duty\_Cycle\_Max) * 10^5 / (N * Freq\_kHz)$   
 \* 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



Weight ..... 1.2 grams  
 Tape & Reel ..... 450/reel

Dimensions: mm

Unless otherwise specified, all tolerances are ± 0.25

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## For More Information:

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