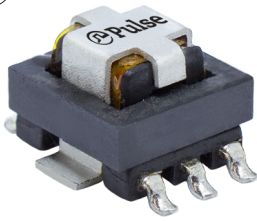


SMT Current Sense Transformer

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

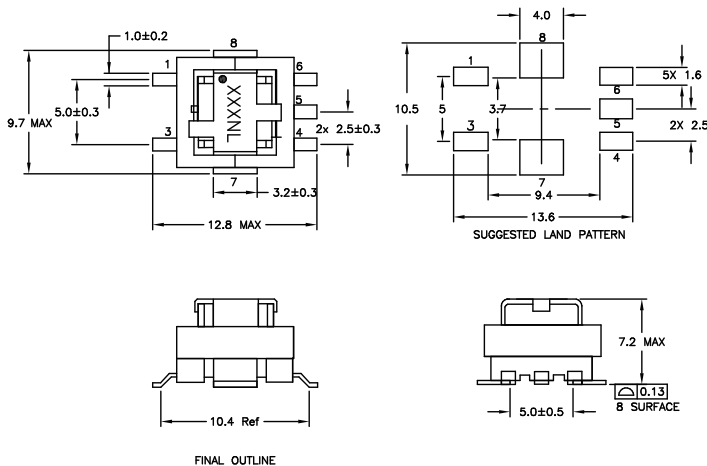
Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

| 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 |

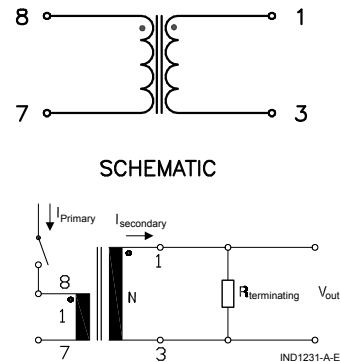
NOTES:

- 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



Weight 1.2 grams

Tape & Reel 450/reel

Dimensions: mm

Unless otherwise specified, all tolerances are ± 0.25

SMT Current Sense Transformer

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For More Information:

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