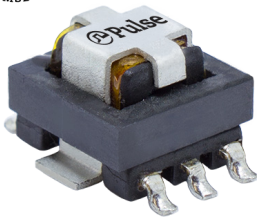


SMT Current Sense Transformer

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
PH9494.300NLT	300	30	22.5	0.35	25.0	2250

NOTES:

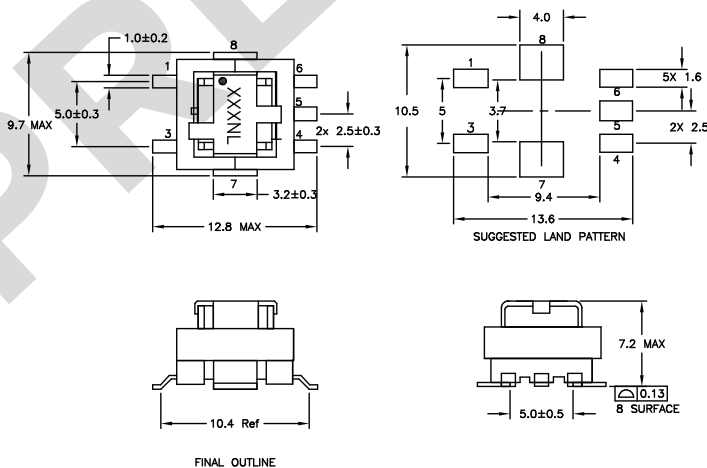
- The temperature of component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
- The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C.
- To calculate 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:

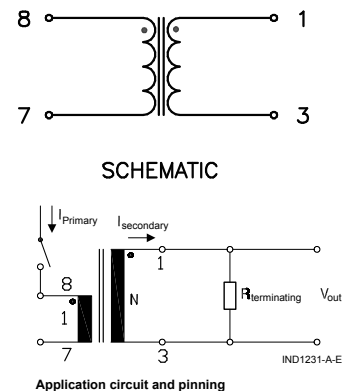
$$B_{pk} = 11.88 * V_{REF} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$$

* 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

PH9494.XXXNLT EE8 SMD Platform



For More Information

Pulse Worldwide Headquarters

15255 Innovation Drive Ste 100
San Diego, CA 92128
U.S.A.

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe

Pulse Electronics GmbH
Am Rottland 12
58540 Meinerzhagen
Germany

Tel: 49 2354 777 100
Fax: 49 2354 777 168

Pulse China Headquarters

Pulse Electronics (ShenZhen) CO., LTD
D708, Shenzhen Academy of
Aerospace Technology,
The 10th Keji South Road,
Nanshan District, Shenzhen,
P.R. China 518057

Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China

Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Tel: 86 21 62787060
Fax: 86 2162786973

Pulse South Asia

13 Fraser Street
0428 DUO Tower
Singapore 189352

Tel: 65 6287 8998
Fax: 65 6280 0080

Pulse North Asia

1F., No.111 Xiyuan Rd
Zhongli City
Taoyuan City 32057
Taiwan (R.O.C)

Tel: 886 3 4356768
Fax: 886 3 4356820

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