

SMT Current Sense Transformer

PH9500.XXXNL



Insulation: Basic, 8.2mm creepage

Height: 8.8mm Max

Footprint: 13mm x 14mm Max

Current Rating: up to 10A

Patented: US Patent 9,646,755

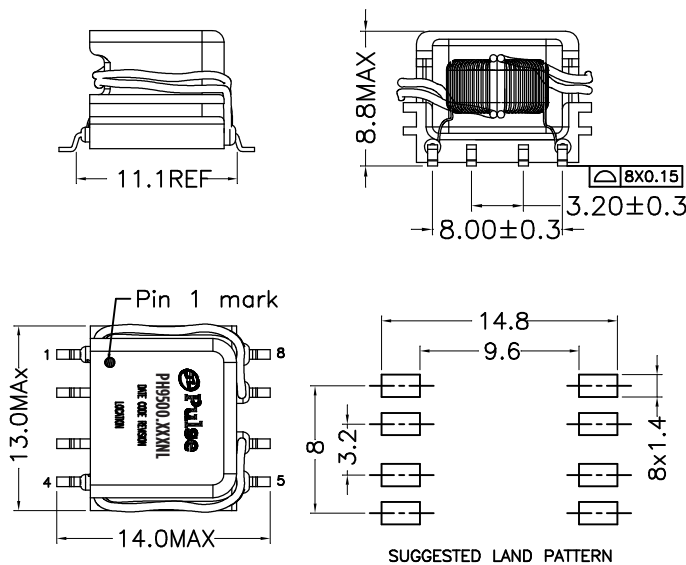
Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

Part ^{5,6} Number	Turns Ratio	Current ² Rating (A)	Secondary Inductance (mH MIN)	DCR (mΩ Max)		Hipot (V _{DC})
				Primary (7,8-5,6)	Secondary (1-4)	
PH9500.065NL	1:65	10	2.0	3	1620	4400
PH9500.100NL	1:100	10	10.0	3	2100	4400

NOTES:

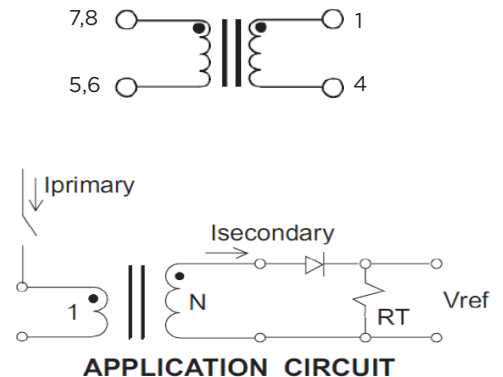
- The temperature of component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
- The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow when both one turn windings connected in parallel.
- To calculate value of terminating resistor (R_t) use the following formula:
 $R_t (W) = V_{REF} * N / (I_{peak_primary})$
- The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for uni-polar current use following formula:
 $B_{pk} = 23.81 * V_{REF} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$
* for bi-polar current applications divide B_{pk} (as calculated above) by 2.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PH9500.065NL becomes PH9500.065NLT). Pulse complies to industry standard tape and reel specification EIA481.
- The "NL" suffix indicates an RoHS-compliant part number.

Mechanical



FINAL OUTLINE

Schematic



Weight 0.34 grams
Tray 45/tray
Tape & Reel 220/reel

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm .010$

0,25

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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

135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Tel: 65 6287 8998
Fax: 65 6280 0080

Pulse North Asia

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

Tel: 886 3 4356768
Fax: 886 3 4356820

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