

High Frequency Planar Transformer

Ruggedized



- R** Ruggedized for the Military and Aerospace Industries
- R** Height: 0.400" max
- R** Footprint: 1.00" x 1.16"
- R** Frequency Range: 200kHz to 700kHz
- R** Maximum Reflow Temperature: 235°C
- R** Moisture Sensitivity Level: 1
- R** Lead finish: Sn90/Pb10 (RoHS compliant version available with 100% pure tin)

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

| Part Number | Turns Ratio | | Primary | Leakage | DCR (mΩ MAX) | | | | Hipot (VDC) |
|-------------|----------------|------------------|---------|---------|--------------|-----------|------------|-----------|-------------|
| | Primary | Secondary | | | Primary A | Primary B | PrimaryAux | Secondary | |
| PL2085 | 5T&5T(w/5Taux) | 4T (1T:1T:1T:1T) | 340 | 0.3 | 15 | 15 | 235 | 4.5 | 1750 |

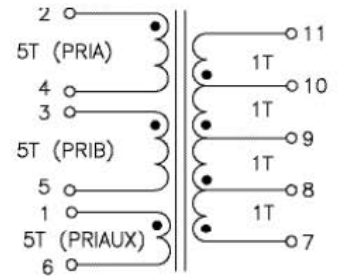
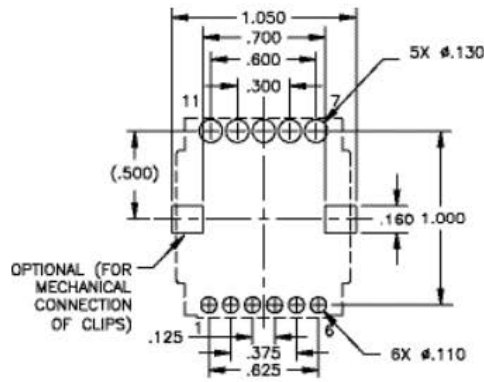
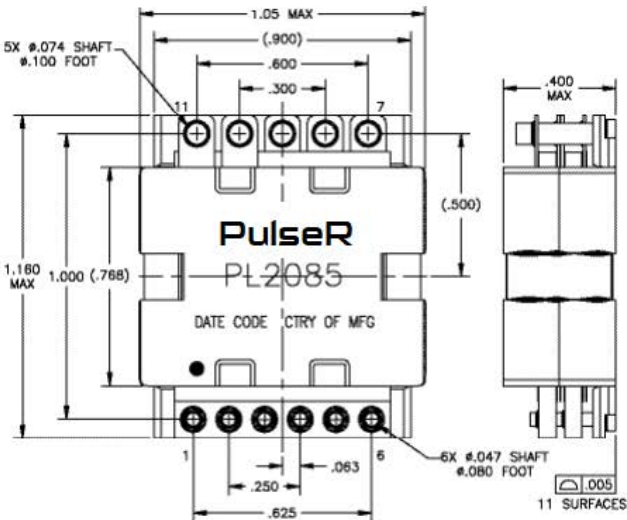
Notes:

1. Inductance is measured, where applicable, with both primary windings connected in series (2 to 5, with 3 and 4 shorted).
2. Leakage inductance is measured with both primary windings connected in series (where applicable) with all other windings shorted.
3. RoHS compliant version available (add suffix NL to part number)

Mechanics

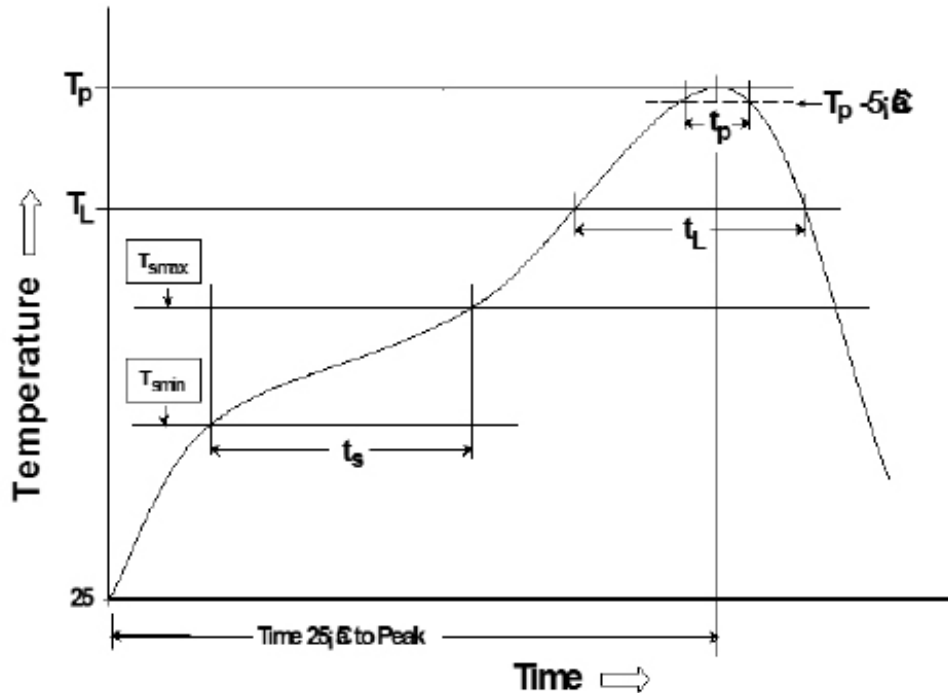
Schematics

PL2085



Weight..... 20 grams
Tray..... .30

Transceiver Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



| T_{SMIN} (°C) | T_{SMAX} (°C) | T_L (°C) | T_P (°C MAX) | t_s (s) | t_L (s) | t_p (s MAX) | Ramp-up rate (T_L to T_P) | Ramp-down rate (T_P to T_L) | Time 25°C to peak temperature (s MAX) |
|--------------------|--------------------|---------------|-------------------|--------------|--------------|------------------|------------------------------------|--------------------------------------|---|
| 100 | 150 | 183 | 225 | 60-120 | 60-150 | 20 | 3°C/s MAX | 6°C/s MAX | 360 |

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

PulseR North America
Headquarters
Two Pearl Buck Court
Bristol, PA 19007
U.S.A.

Tel: +1.215.781.6400
Fax: +1.215.781.6403

For Global Sales Representatives and Locations Visit:
<http://www.pulseruggedized.com>

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2018. PulseR,LLC. All rights reserved.