# High Frequency
# SMT Balun Adaptor

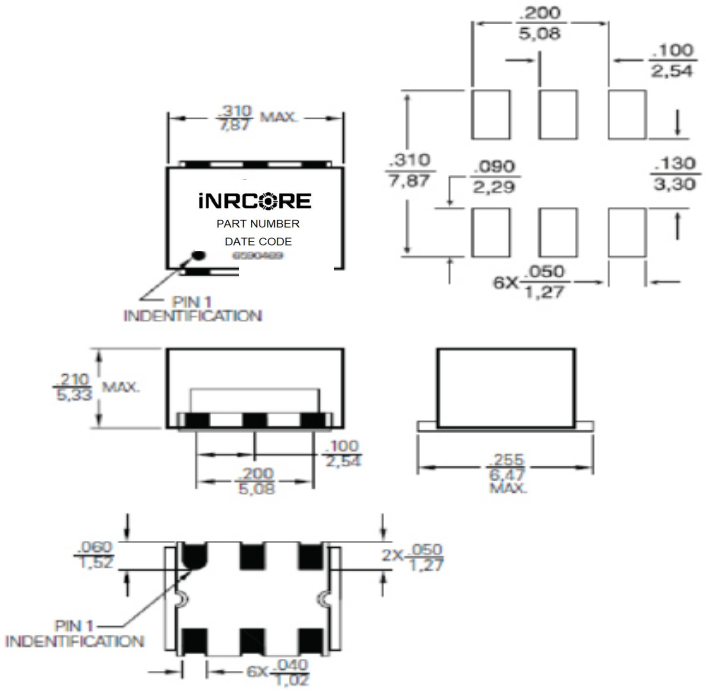
Ruggedized

- Transforms a balanced differential signal to a 50 Ω or 75 Ω , Grounded unbalanced signal
- Wide bandwidth 1.0 MHz – 1.485 GHz
- Moisture Sensitivity Level: 3

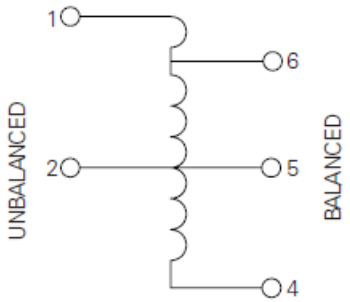
| Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +85 °C | | | | |
|---|---|---|---|---|
| Part Number | Impedance Unbalanced | Impedance Balanced | Insertion Loss (dB MAX) 1.0 MHz - 1.485 GHz | Return Loss (dB MIN) 1.0 MHz - 1.485 GHz |
| T-050150 | 50 | 150 | -2 | 12 dB |
| T-050100 | 50 | 100 | -2 | 12 dB |
| T-050078 | 50 | 78 | -2 | 12 dB |
| T-075100 | 75 | 100 | -2 | 12 dB |

## Mechanical

T-050XXX



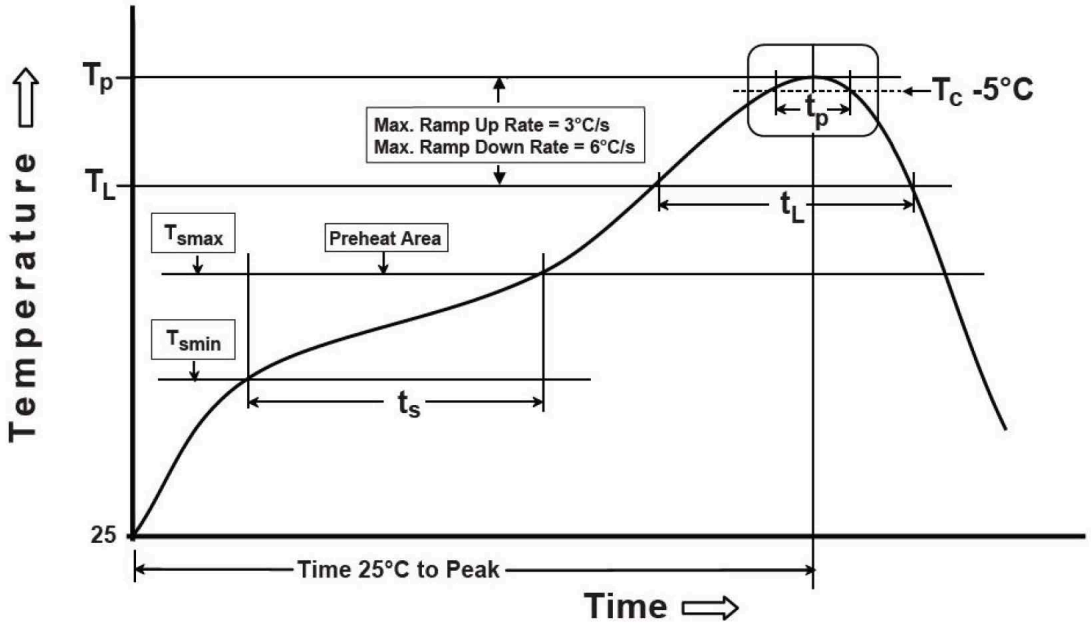

## Electrical Schematic




Dimensions: Inches / mm

Unless otherwise specified, all tolerances are: ± .010 / 0,25

## 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 | 235 | 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.