

1000BASE-T TRANSFORMER MODULES

Industrial grade



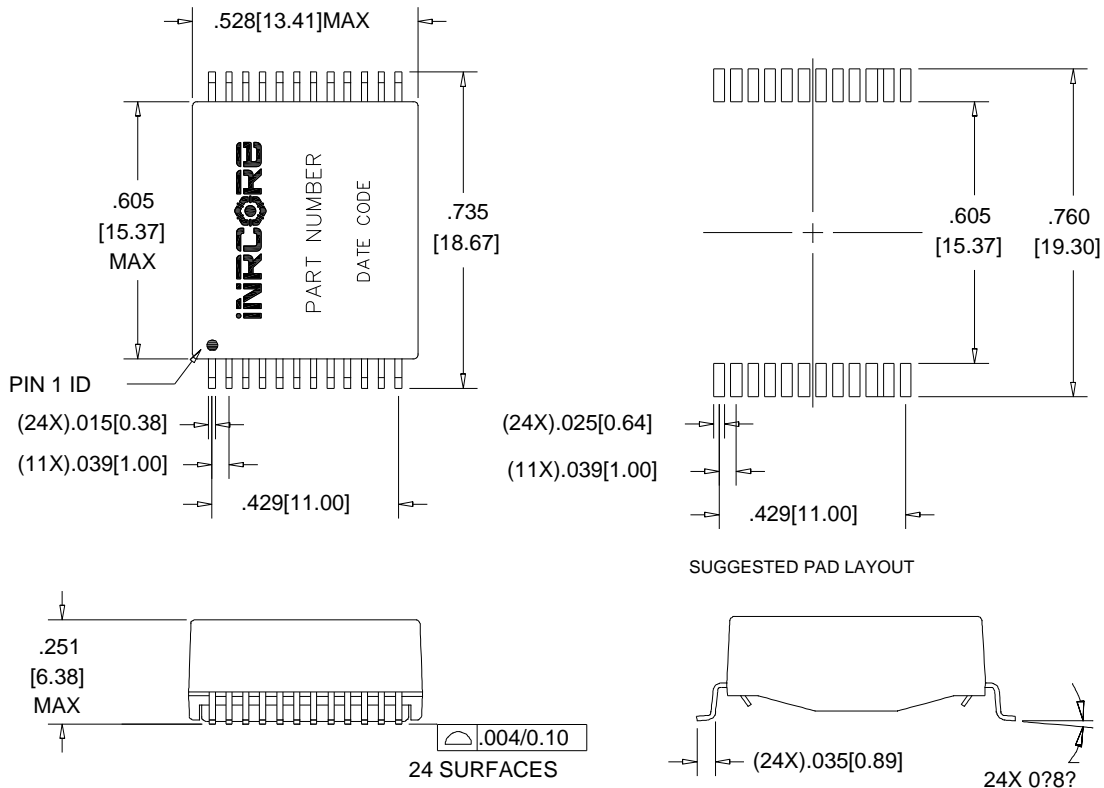
- Compliant with IEEE 802.3 standards
- 350µH OCL with 8mA DC bias at 100KHz 100mV
- Lead finish: Pure tin
- Moisture Sensitivity Level: 1

| Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +85 °C | | | | | | | | | | | | | |
|---|-------------------------|----------------------|--------|--------|--------|---------|--------------------|--------|---------|--|--------|---------|---|
| Part Number | Insertion Loss (dB MAX) | Return Loss (dB MIN) | | | | | Crosstalk (dB MIN) | | | Differential to Common Mode Rejection Ratio (dB MIN) | | | Dielectric Withstanding Voltage @60s (Vrms MIN) |
| | 0.1-100 MHz | 1-30 MHz | 50 MHz | 60 MHz | 80 MHz | 1.0 MHz | 30 MHz | 60 MHz | 1.0 MHz | 30 MHz | 60 MHz | 100 MHz | |
| R3./ONL | -1.0 | -18 | -11 | -12 | -1. | -6 | -41 | -15 | -31 | -41 | -37 | -31 | 1500 |

Notes: Add suffix "T" to part number for Tape & Reel package (ie: R5012NLT).

Mechanical

R5012NL



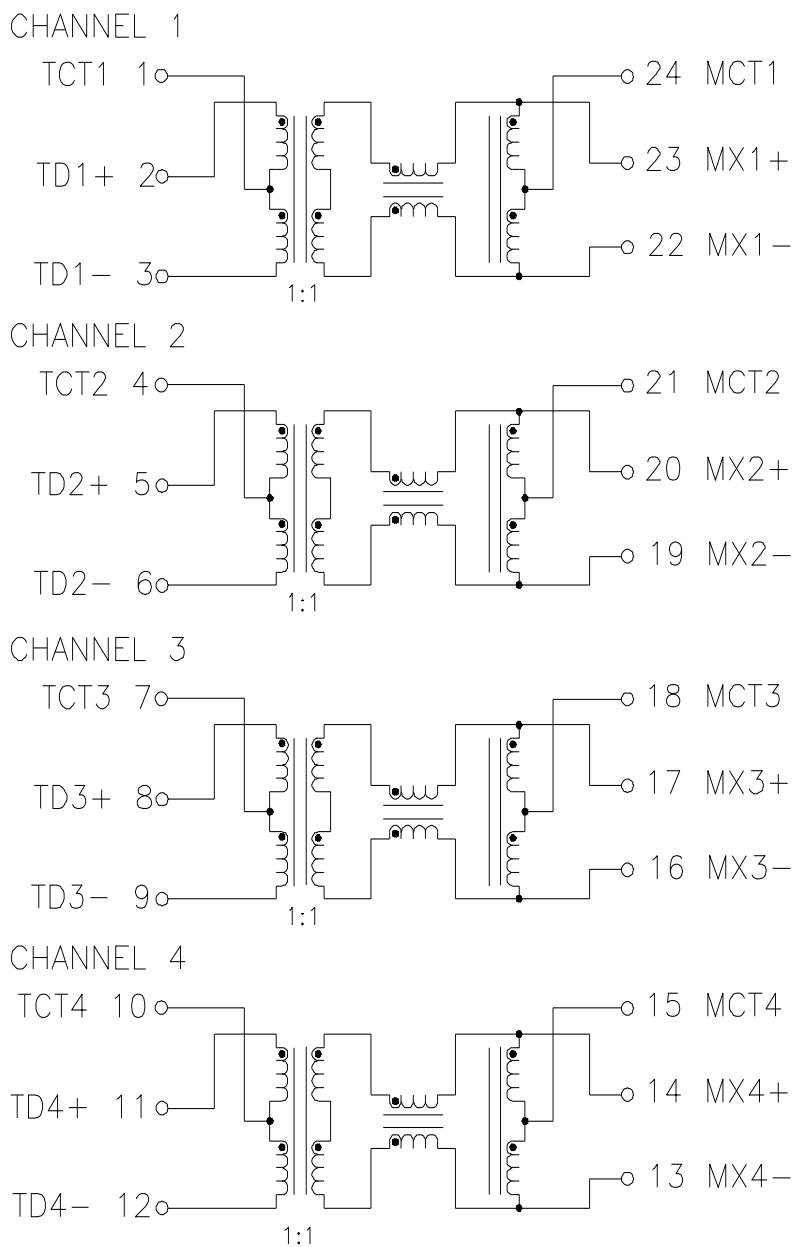
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are: $\pm \frac{.010}{0,25}$

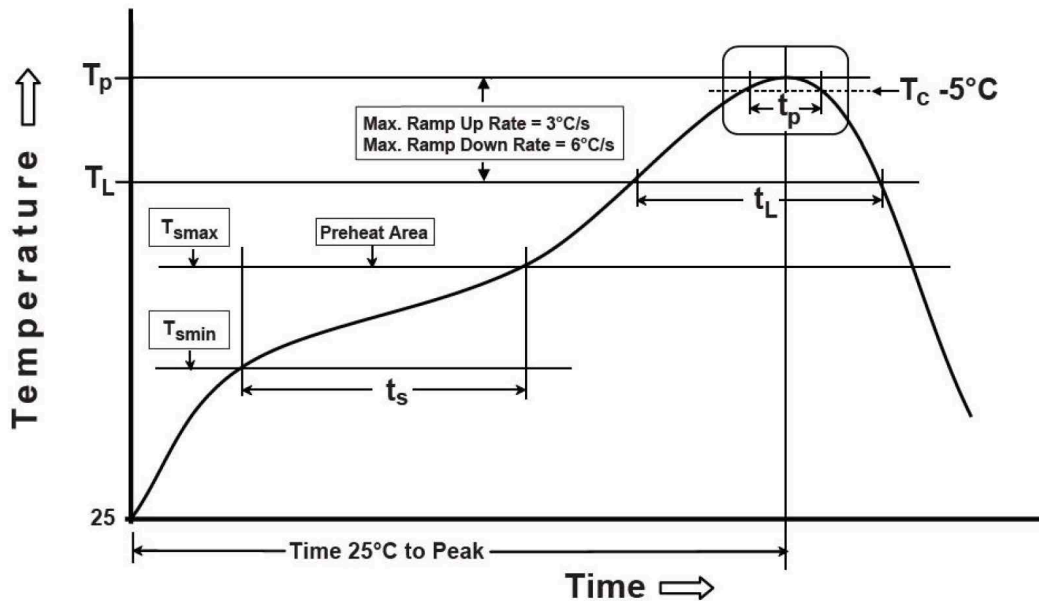


Electrical Schematic

R5012NL



Non-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) |
|--------------------|--------------------|---------------|-------------------|--------------|--------------|------------------|------------------------------------|--------------------------------------|---|
| 150 | 200 | 217 | 245 | 60-120 | 60-150 | 30 | 3°C/s MAX | 6°C/s MAX | 480 |

Notes:

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

For More Information

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