

# 1000BASE-T TRANSFORMER MODULES

Industrial grade



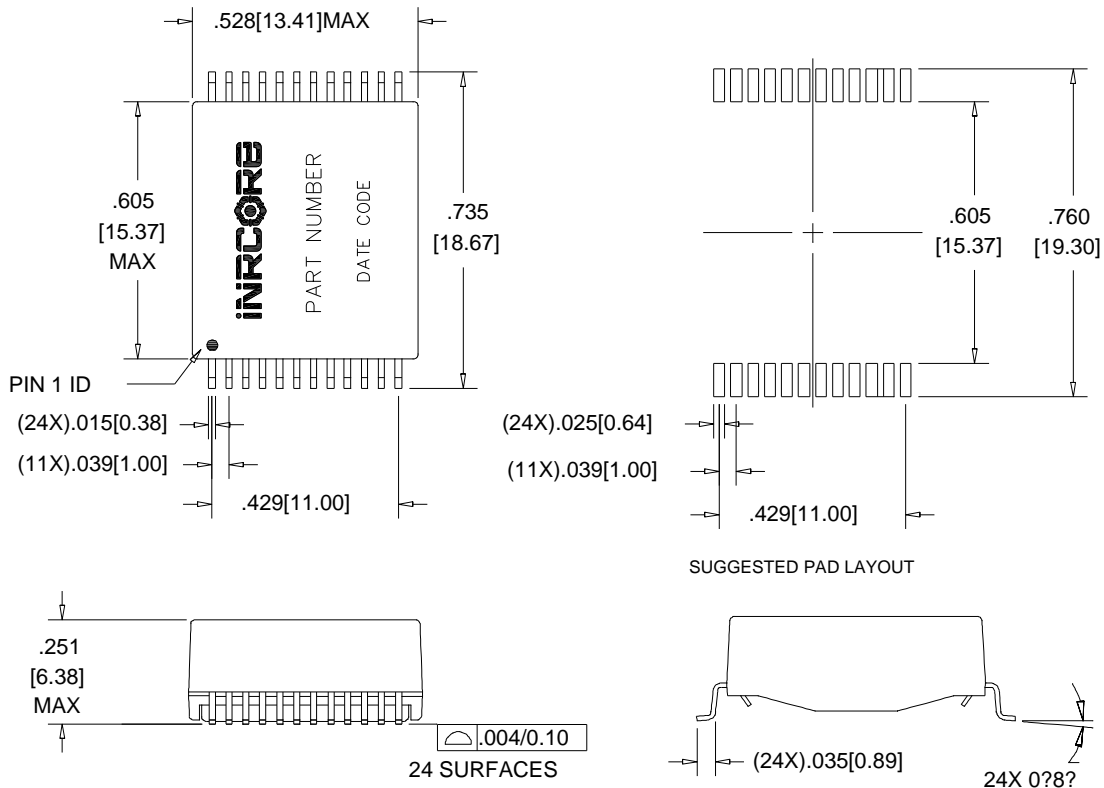
- Compliant with IEEE 802.3 standards
- 350µH OCL with 8mA DC bias at 100KHz 100mV
- Lead finish: Pure tin
- Moisture Sensitivity Level: 1

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

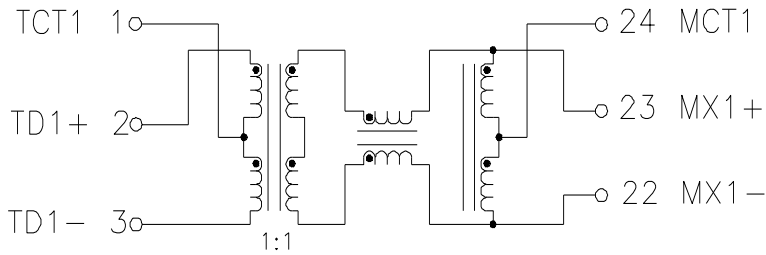
Unless otherwise specified, all tolerances are:  $\pm \frac{.010}{0,25}$



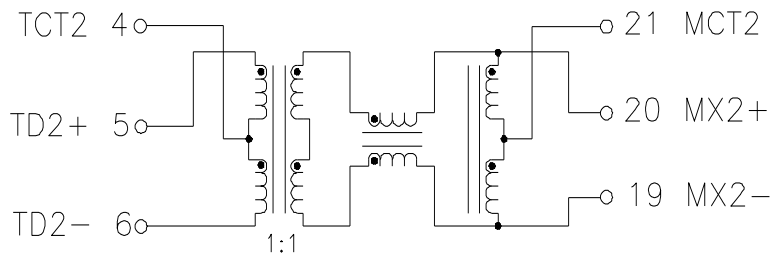
## Electrical Schematic

R5012NL

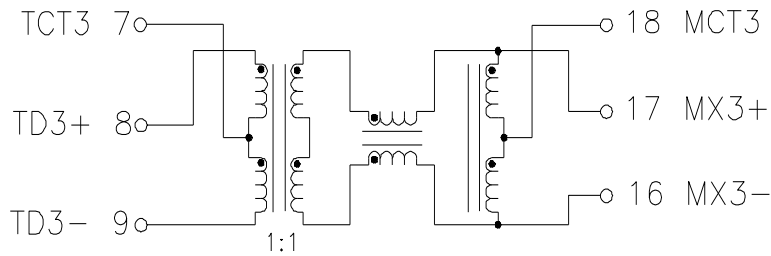
CHANNEL 1



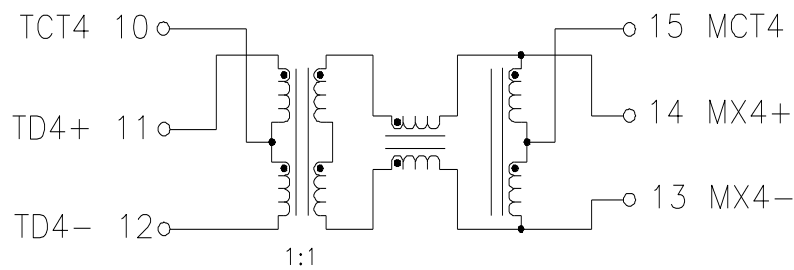
CHANNEL 2



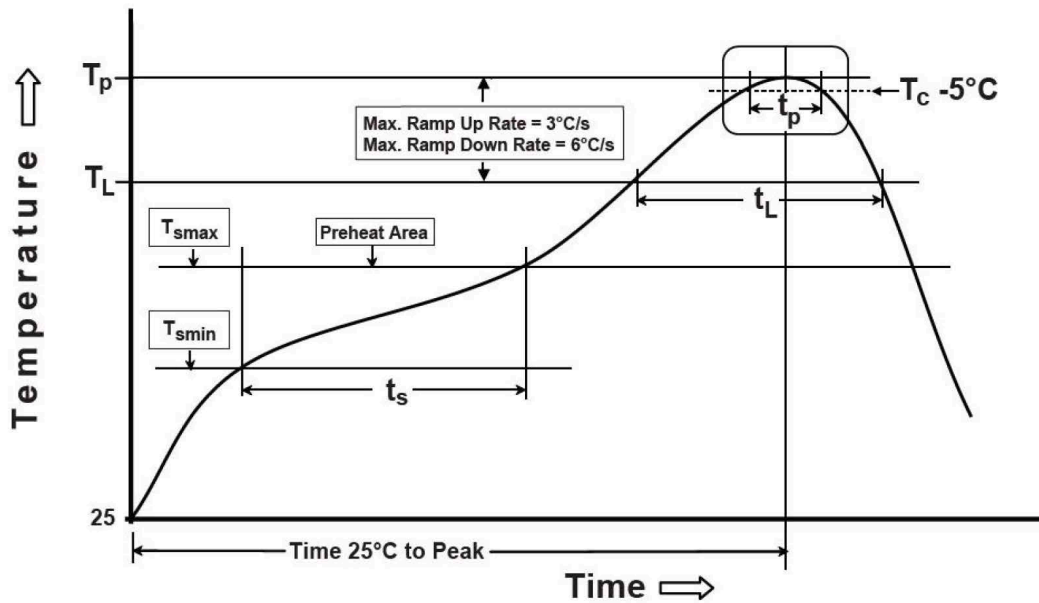
CHANNEL 3



CHANNEL 4



## 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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