

1000BASE-T TRANSFORMER MODULES

Industrial grade



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

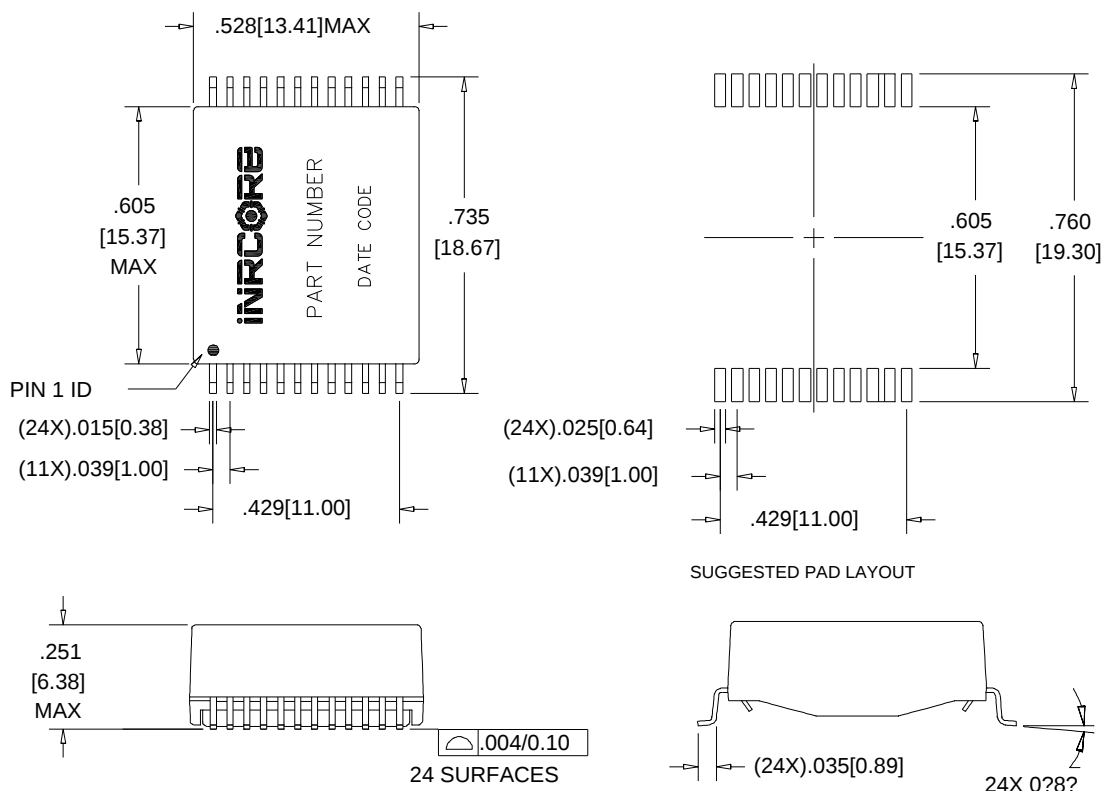
Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +85 °C

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

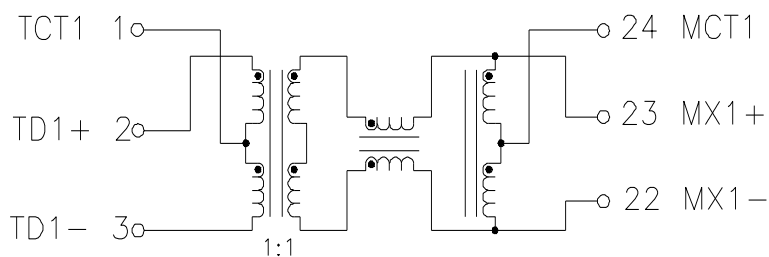
Unless otherwise specified, all tolerances are: $\pm \frac{.010}{0,25}$



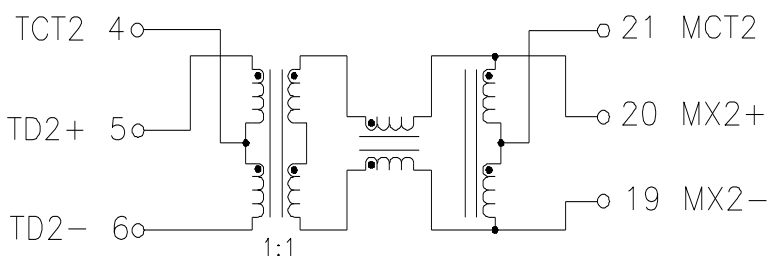
Electrical Schematic

R5012NL

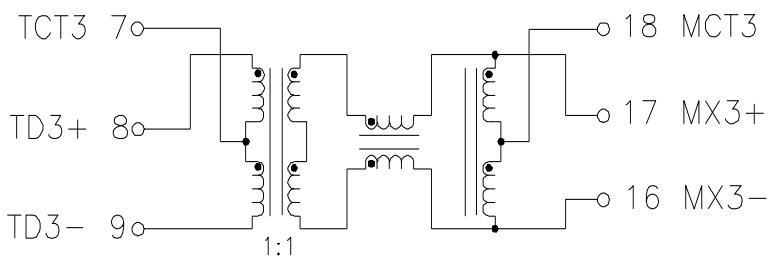
CHANNEL 1



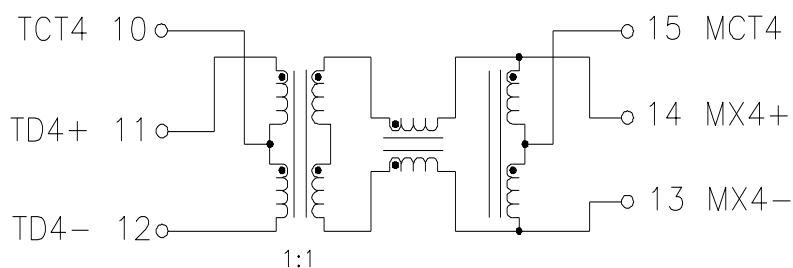
CHANNEL 2



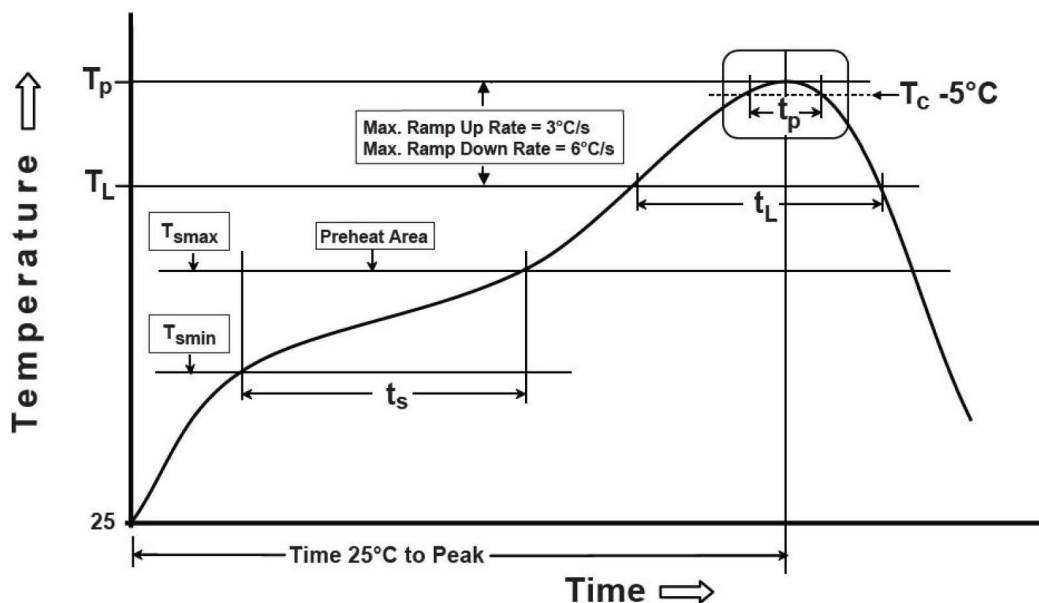
CHANNEL 3



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	$3^\circ C/s$ MAX	$6^\circ C/s$ 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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