

# 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

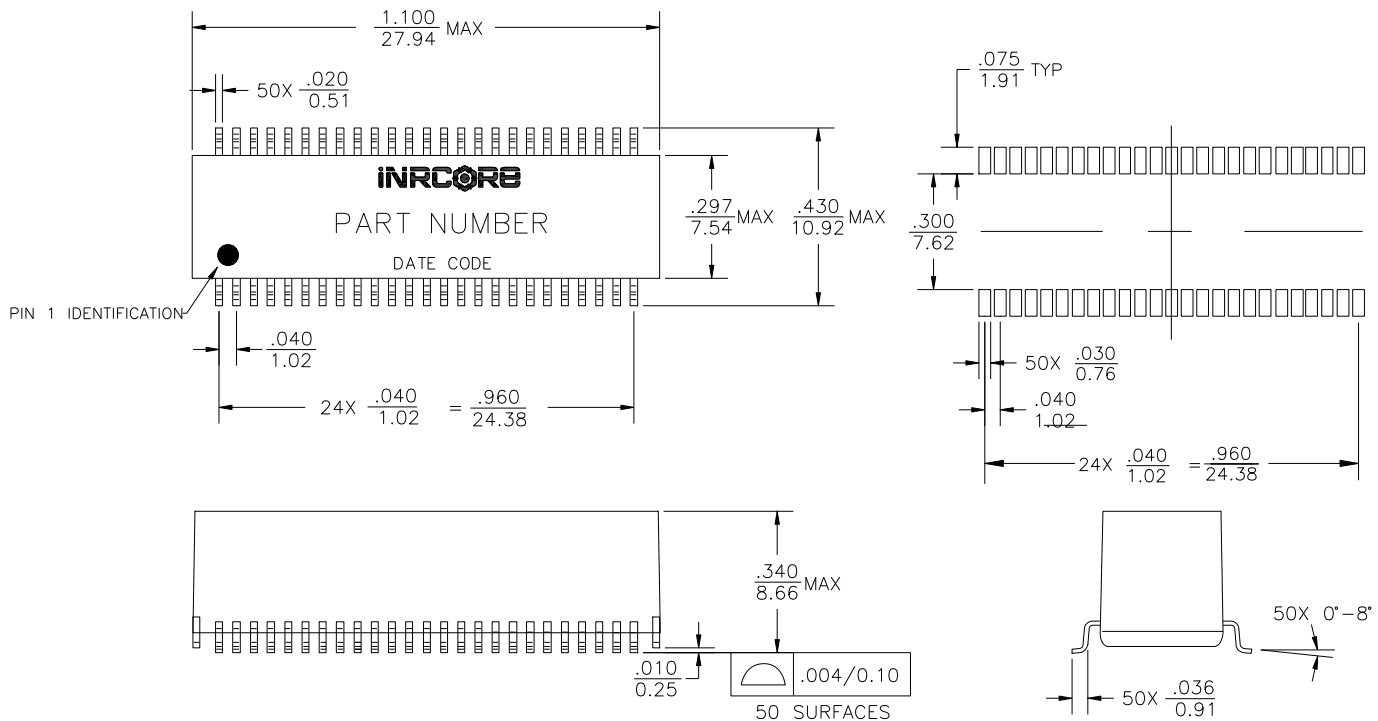
## Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +85 °C

Part Number	Insertion Loss (dB MAX)	Return Loss (dB MIN)				Crosstalk (dB MIN)			DM to CM Rejection Ratio (dB MIN)			Dielectric Withstanding Voltage @60s (Vrms MIN)
		30 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
R5003NL	-1.2	-18	-14	-11	-9	-43	-37	-33	-43	-37	-33	1500

Notes: 1. Add suffix "T" to part number for Tape & Reel package (ie: **R5003NLT**).

## Mechanical

### R5003NL



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified,  
 all tolerances are  $\pm \frac{.010}{0.25}$

Weight.....4.6grams MAX  
 Tape and Reel.....250pcs/reel  
 Tube.....15pcs/tube



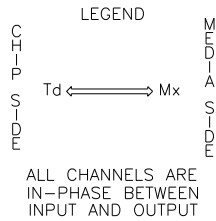
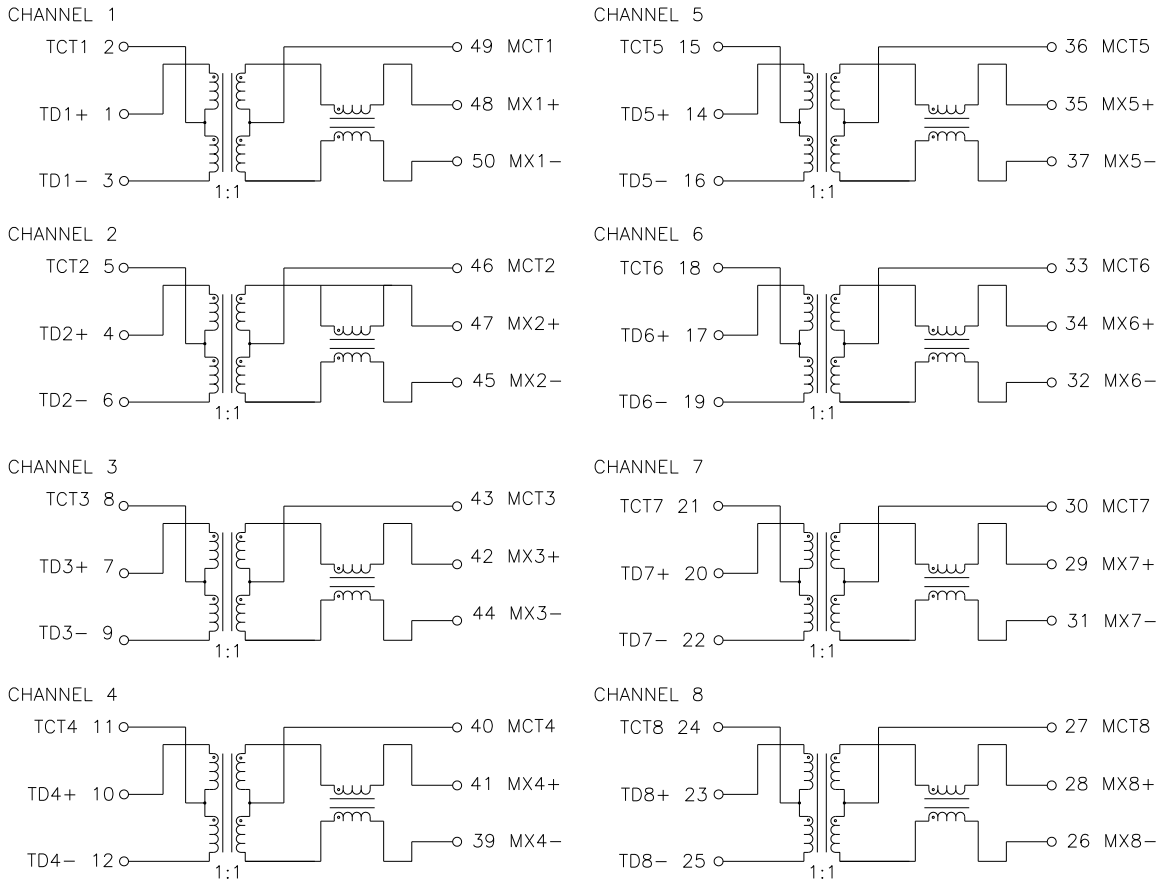
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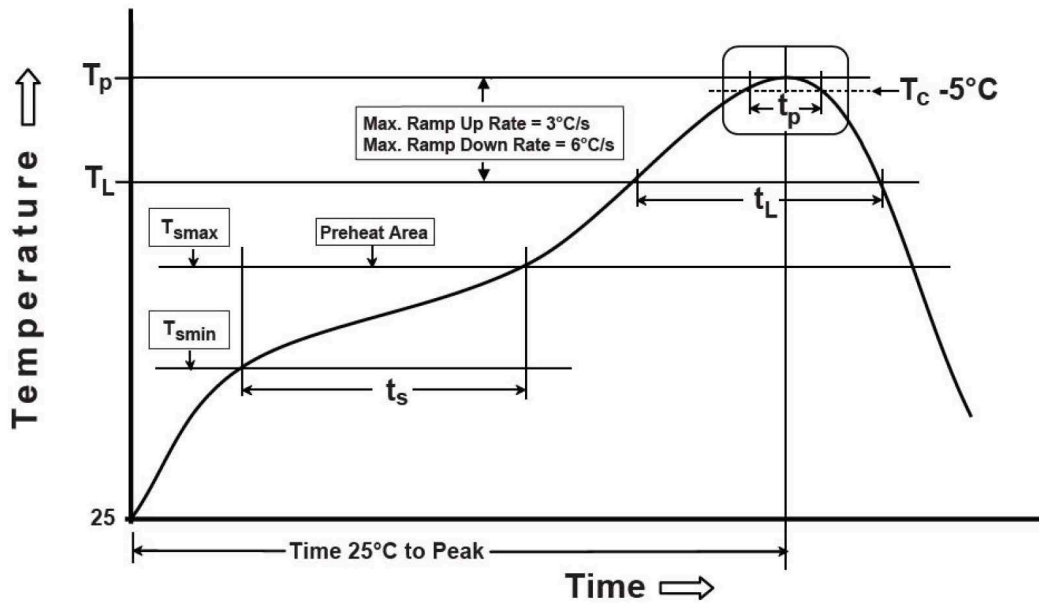


## Electrical Schematic

R5003NL



## 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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