

# 10/100BASE-T DUAL PORT 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

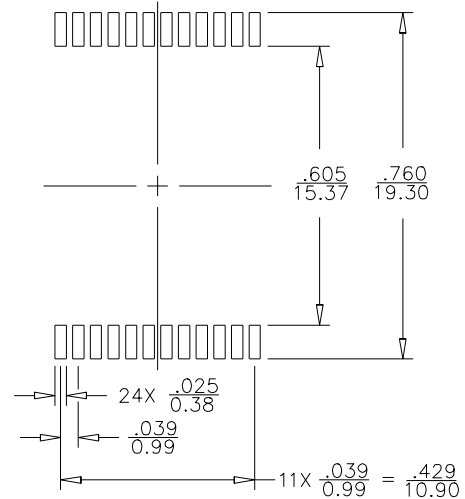
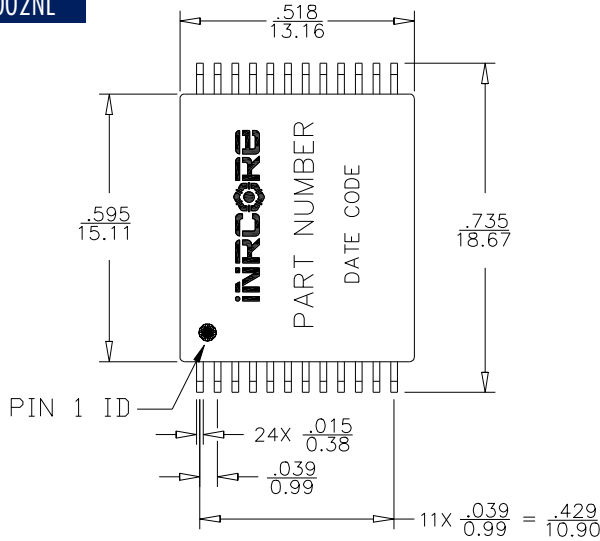
## Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +85 °C

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)
	0.1-100 MHz	30 MHz	60 MHz	80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
R2002NL	-1.2	-18	-14	-12	-50	-43	-37	-33	-43	-37	-33	1500

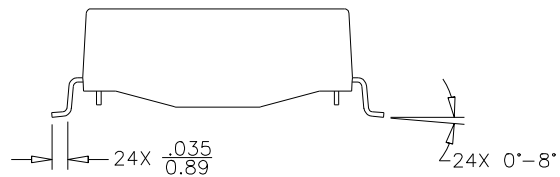
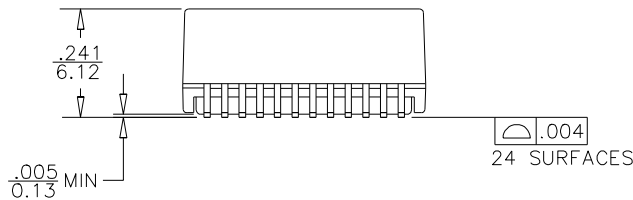
Notes: 1. Add suffix "T" to part number for Tape & Reel package (ie: **R2002NLT**).

## Mechanical

**R2002NL**



SUGGESTED LAND PATTERN



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

Weight.....3.0grams  
 Tape and Reel.....300/reel  
 Tube ..... 25/tube



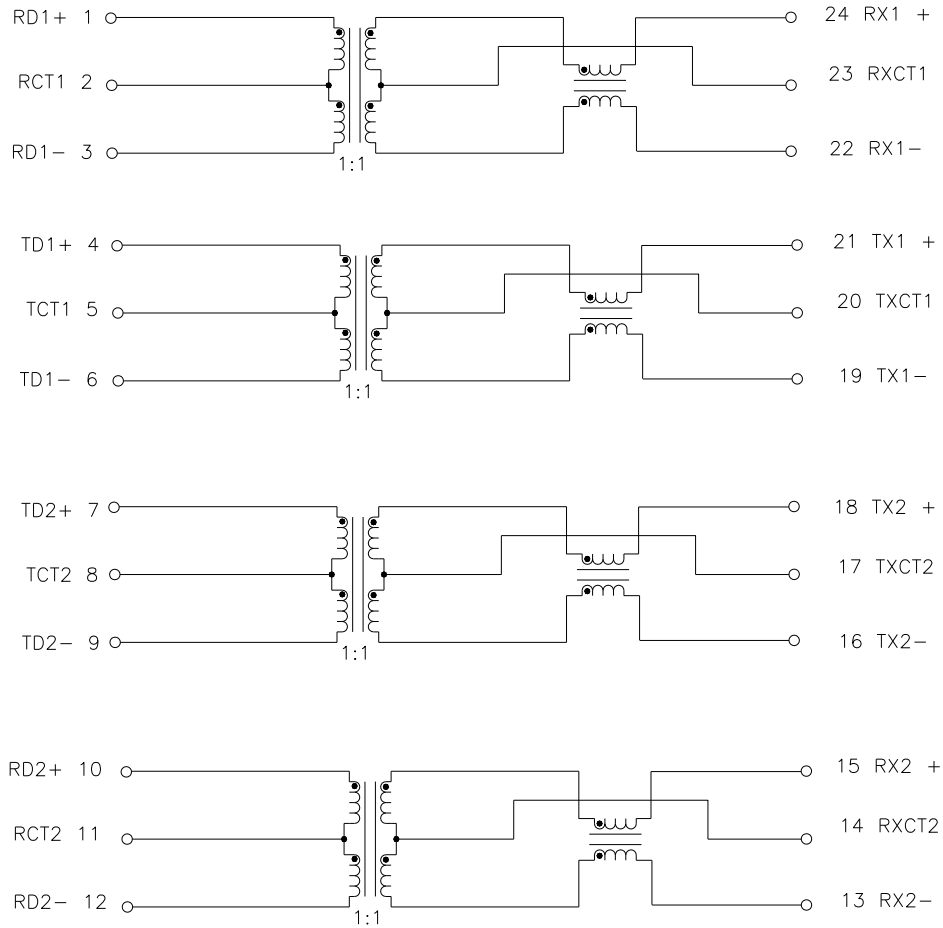
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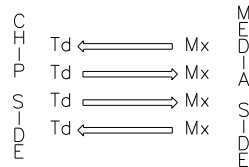


## Electrical Schematic

R2002NL



### LEGEND



ALL CHANNELS ARE IN-PHASE BETWEEN INPUT AND OUTPUT

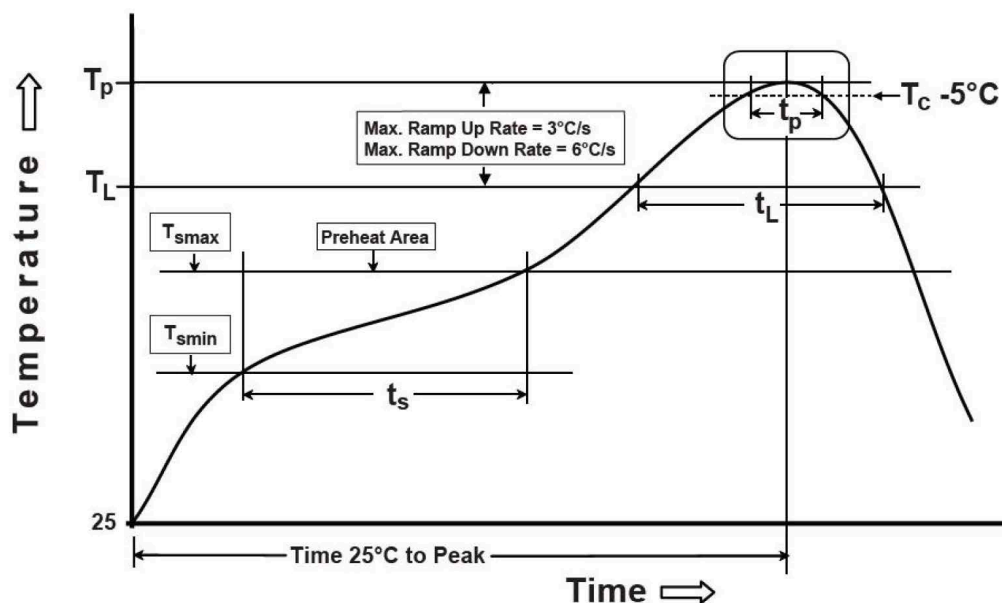


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## Non-Lead Recommended Reflow Profile (Based on J-STD-020D)



$T_{SMIN}$ (°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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