

# 10G BASE-T TRANSFORMER MODULES

Industrial grade



- Compliant with IEEE 802.3 standards
- 120uH OCL Min with 9mA DC, at 100KHz 100mV
- PoE available, 300mA per channel
- Lead finish: Pure tin
- Moisture Sensitivity Level: 1

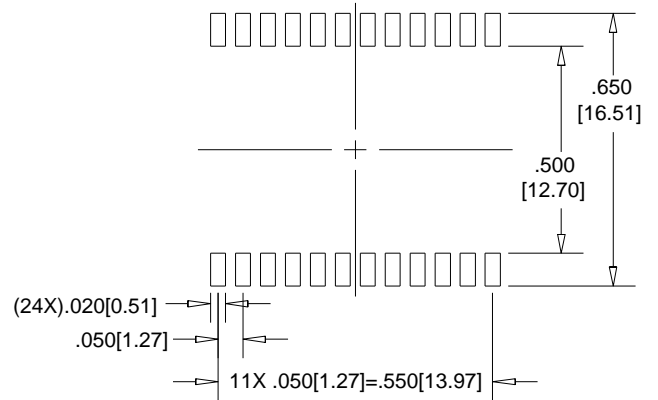
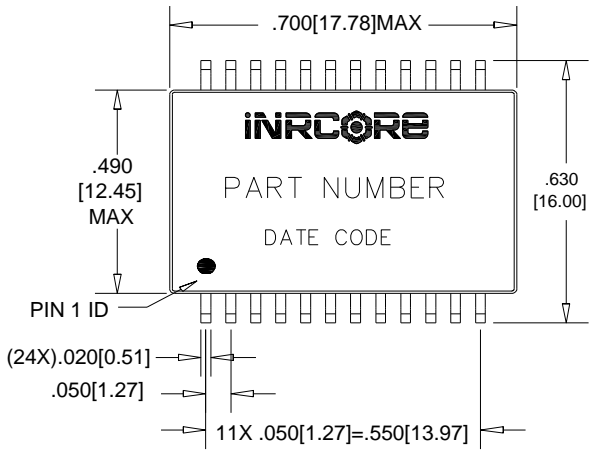
## Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +85 °C

Part Number	Insertion Loss (dB MIN)		Return Loss (dB MIN)						Crosstalk (dB MIN)			DM to CM Rejection Ratio (dB MIN)			Dielectric Withstanding Voltage @60s (Vrms MIN)
	300 KHz	500 MHz	1 MHz	10 MHz	100 MHz	300 MHz	400 MHz	500 MHz	1 MHz	100 MHz	400 MHz	1 MHz	250 MHz	500 MHz	
R6001NL	-3.0	-1.8	-22	-24	-20	-12	-9	-8	-40	-37	-30	-40	-30	-22	1500

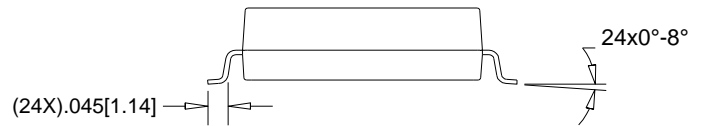
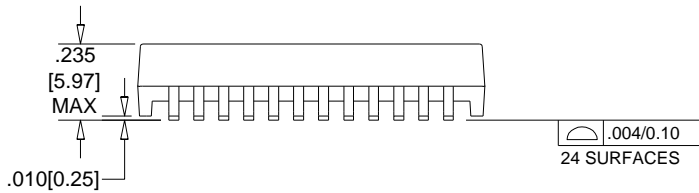
Notes: 1. Add suffix "T" to part number for Tape & Reel package (ie: **R6001NLT**).

## Mechanical

**R6001NL**



SUGGESTED PAD LAYOUT



Dimensions: inches [mm]  
 Unless otherwise specified, all tolerances are ± .010 [0.25]  
 Weight.....2.0grams MAX  
 Tape and Reel.....300pcs/reel  
 Tube.....25pcs/tube



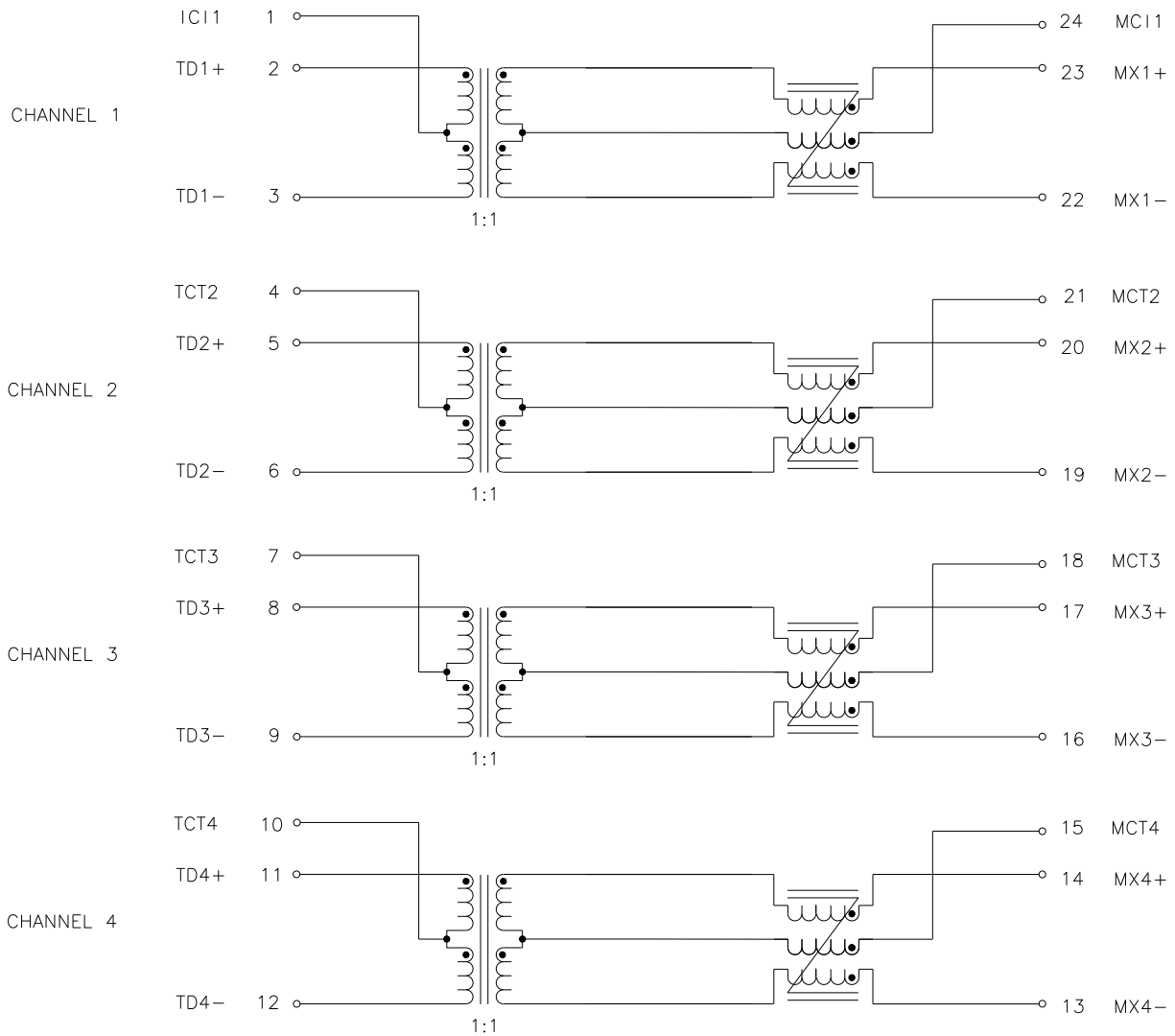
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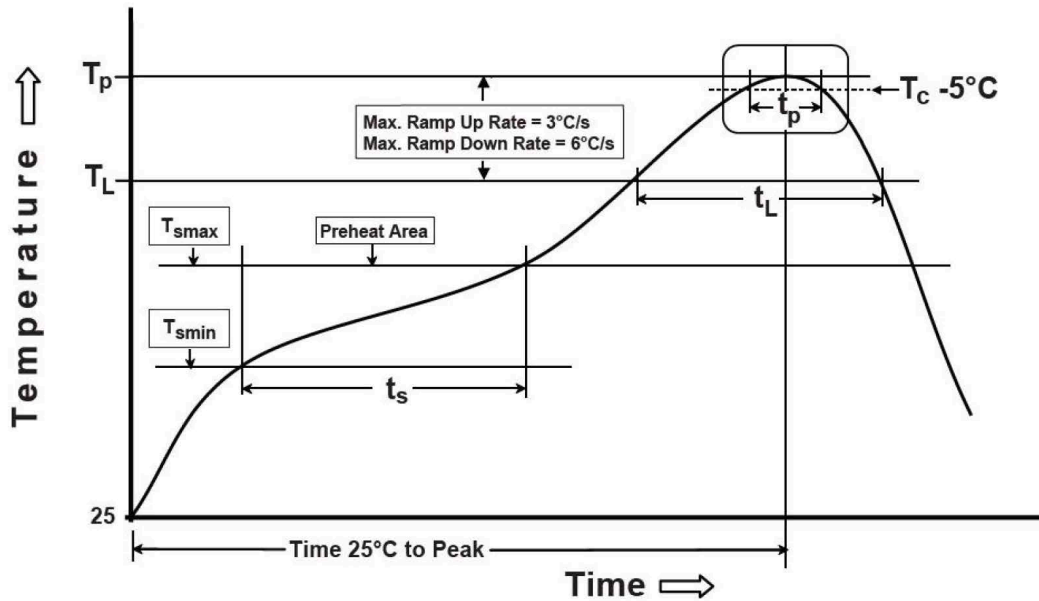


## Electrical Schematic

R6001NL



**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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