

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

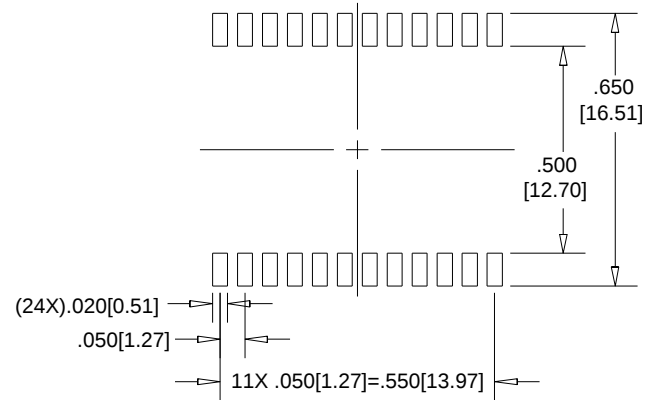
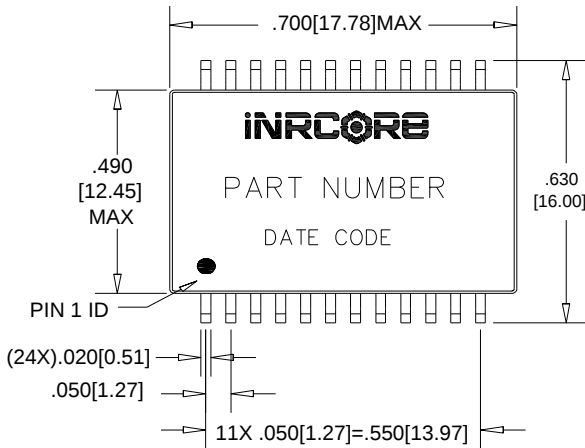
Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +85 °C

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

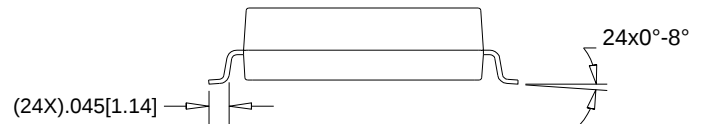
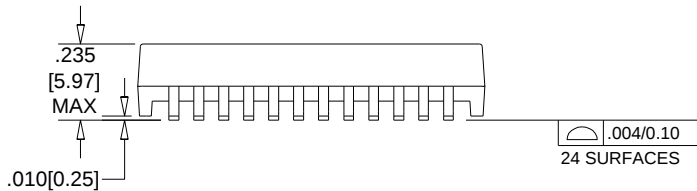
Notes: 1. Add suffix "T" to part number for Tape & Reel package (ie: R6001NLT).

Mechanical

R6001NL



SUGGESTED PAD LAYOUT



Dimensions: inches[mm]

Unless otherwise specified, all tolerances are $\pm .010[0.25]$

Weight.....2.0grams MAX

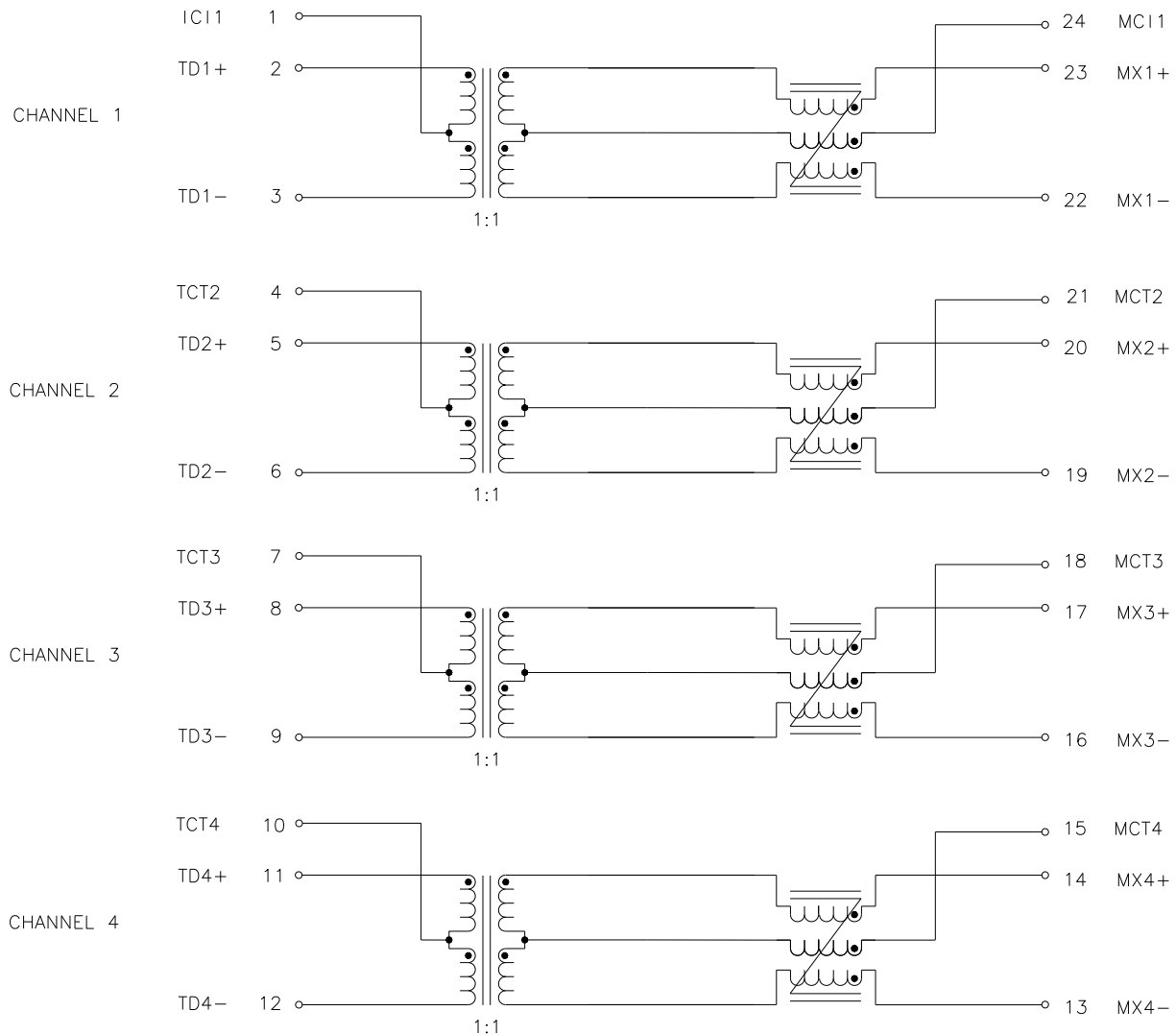
Tape and Reel.....300pcs/reel

Tube.....25pcs/tube

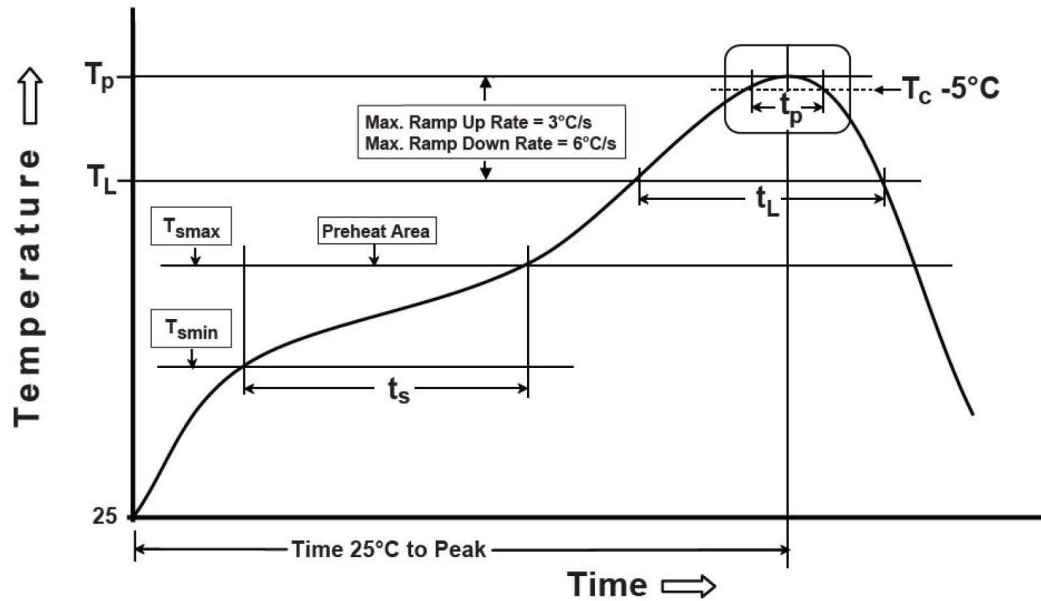


Electrical Schematic

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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