

# 10/100BASE-T SINGLE PORT 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

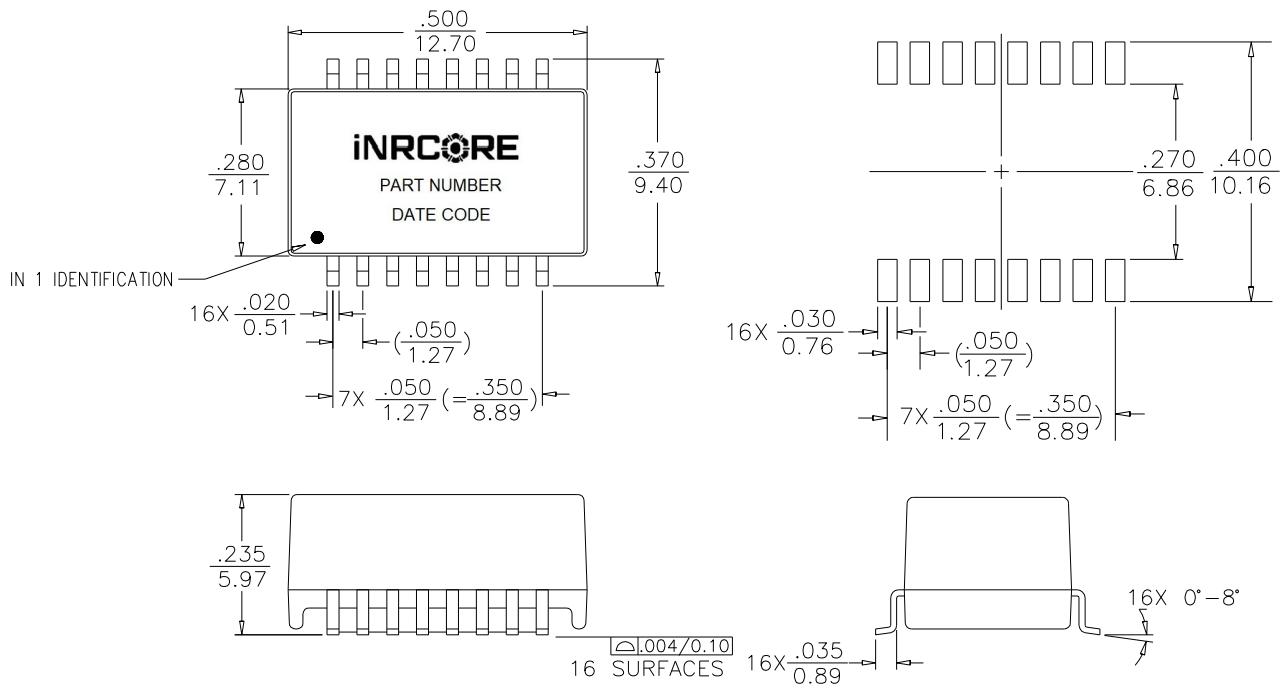
## Electrical Specifications @25 °C –Operating temperature : – 40 °C to + 85 °C

Part Number	Insertion Loss (dB MAX)	Return Loss (dB MIN)				Crosstalk (dB MIN)				DM to CM Rejection Ratio (dB MIN)			Dielectric Withstanding Voltage @60s (Vrms MIN)
		0.1-100 MHz	5-30 MHz	50 MHz	60 MHz	80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	
R1022NL	-1.2	-18	-14	-14	-12	-48	-45	-40	-35	-42	-37	-32	1500

Notes: 1. Add suffix "T" to part number for Tape & Reel package (ie: **R1022NLT**).

## Mechanical

R1022NL



WEIGHT.....APPROX 1.16 GRAMS  
 TAPE & REEL.....600/REEL  
 TUBE.....40/TUBE  
 DIMENSIONS:  $\frac{\text{INCHES}}{\text{MM}}$   
 UNLESS OTHERWISE SPECIFIED, ALL TOLERANCES ARE  $\pm \frac{.010}{0.25}$



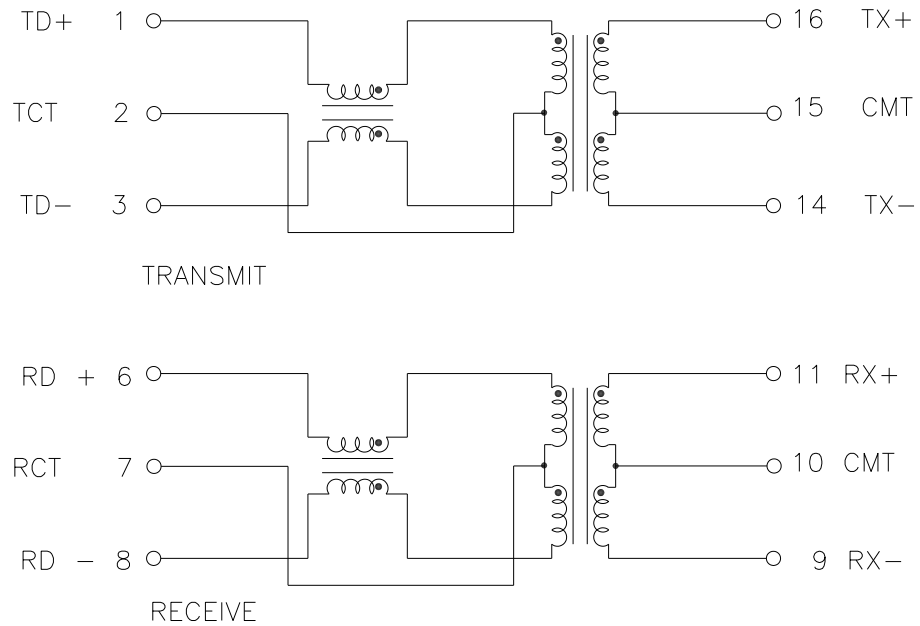
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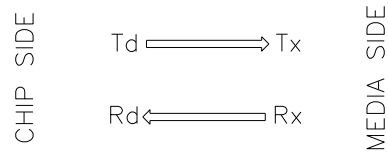


## Electrical Schematic

R1022NL



### LEGEND



ALL CHANNELS ARE  
IN PHASE BETWEEN  
INPUT TO OUTPUT

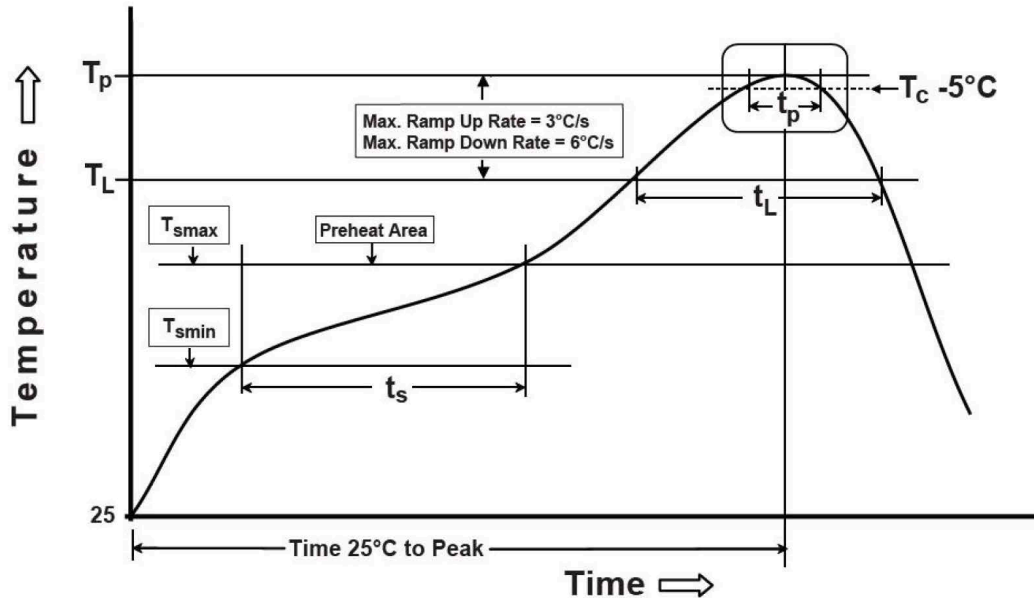


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## Non-Lead Recommended Reflow Profile (Based on J-STD-020D)



$T_{SMIN}$ (°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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