10/100BASE-T SINGLE PORT TRANSFORMER MODULES

Industrial grade



Compliant with IEEE 802.3 standards

350µH OCL with 8mA DC bias at 100KHz 100mV

Lead finish: Pure tin

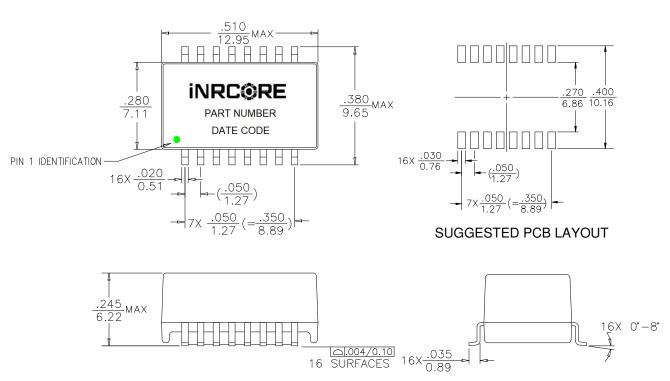
Moisture Sensitivity Level: 1

Electrical Specifications @ 25 $^{\circ}$ C – Operating Temperature -40° C to $+85^{\circ}$ C														
Part	Insertion Loss (dB MIN) (dB MAX)						Crosstalk (dB MIN)				Differential to Common Mode Rejection (dB MIN		Dielectric	
Number	0.1-100 MHz	5 MHz	30 MHz	50 MHz	60 MHz	80 MHz	1 MHz	30 MHz	60 MHz	80 MHz	30 MHz	60 MHz	100 MHz	Withstanding Voltage @60s (Vrms MIN)
R1003NL	-1.0	-18	-16	-12	-11	-10	-62	-45	-40	-35	-42	-37	-32	1500

Notes: For Tape & Reel Packaging, add "T" suffix at the end of the part number; i.e. R1003NLT.

Mechanical

R1003NL



Dimensions: Inches

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



10/100BASE-T SINGLE PORT TRANSFORMER MODULES

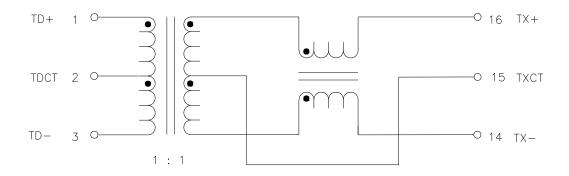
Industrial grade



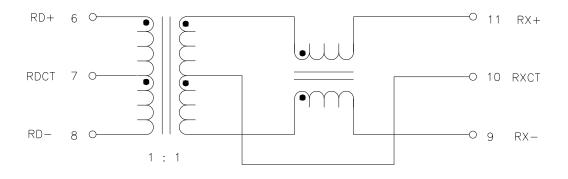
Electrical Schematic

R1003NL

TRANSMIT



RECEIVE



SCHEMATIC

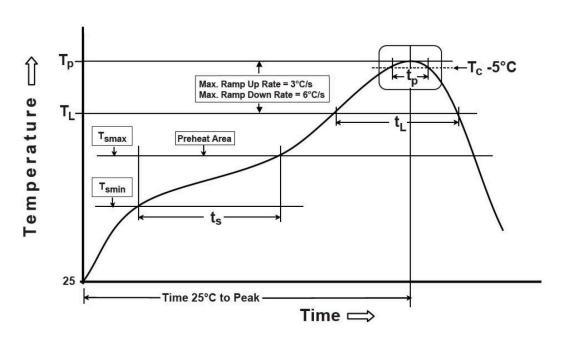


10/100BASE-T SINGLE PORT TRANSFORMER MODULES

Industrial grade



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	t _L (s)	t _P (s MAX)	Ramp-up rate (T _L to T _P)	Ramp-down rate $(T_P \text{ to } T_L)$	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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