

10/100BASE-TX DUAL-PORT TRANSFORMER MODULES



Ruggedized

- ⊗ Compliant with IEEE 802.3u and ANSI X3.263 standards
- ⊗ 350µH OCL with 8mA bias
- ⊗ Operating and storage temperature:
 100B-2002: -40°C to +85°C
 100B-2002X: -55°C to +125°C
- ⊗ IC grade transfer-molded package withstands 235°C peak temperature profile

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

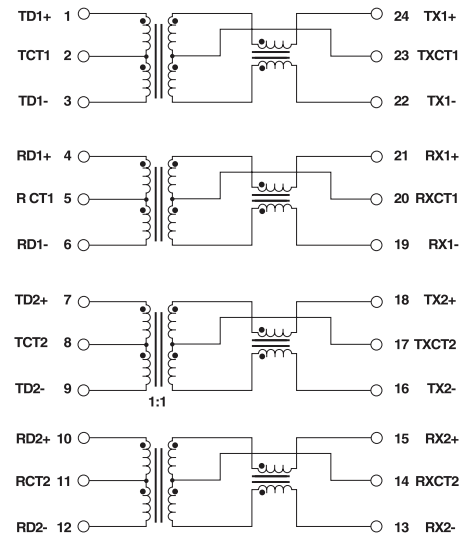
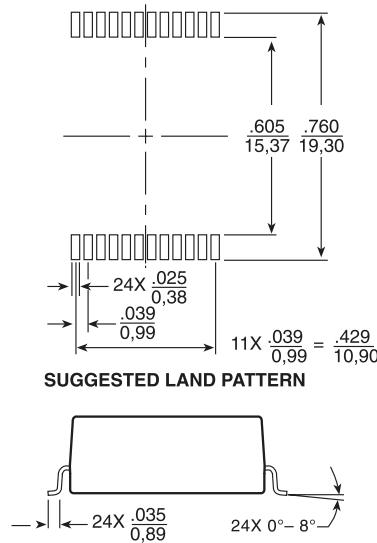
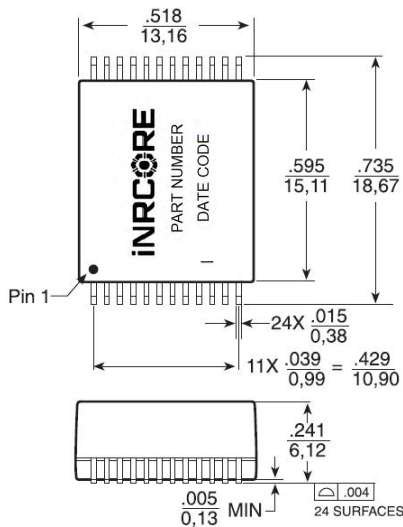
Part Number	Insertion Loss (dB MAX)	Return Loss (dB MAX)					Crosstalk (dB MIN)				DM to CM Rejection Ratio (dB MAX)		
	0.1-100MHz	2-30MHz	40MHz	50MHz	60-80MHz	1MHz	30MHz	60MHz	100MHz	1-60MHz	60-200MHz	60-100MHz	
100B-2002	-1.20	-18	-16	-15	-12	-50	-43	37	-33	-43	-37	-33	
100B-2002X	-1.20	-18	-16	-15	-12	-50	-43	37	-33	-43	-37	-33	

Note: Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. 100B-2002 becomes **100B-2002T**).

Mechanical

Electrical Schematic

100B-2002/X



Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all tolerances are: $\pm \frac{.010}{0,25}$



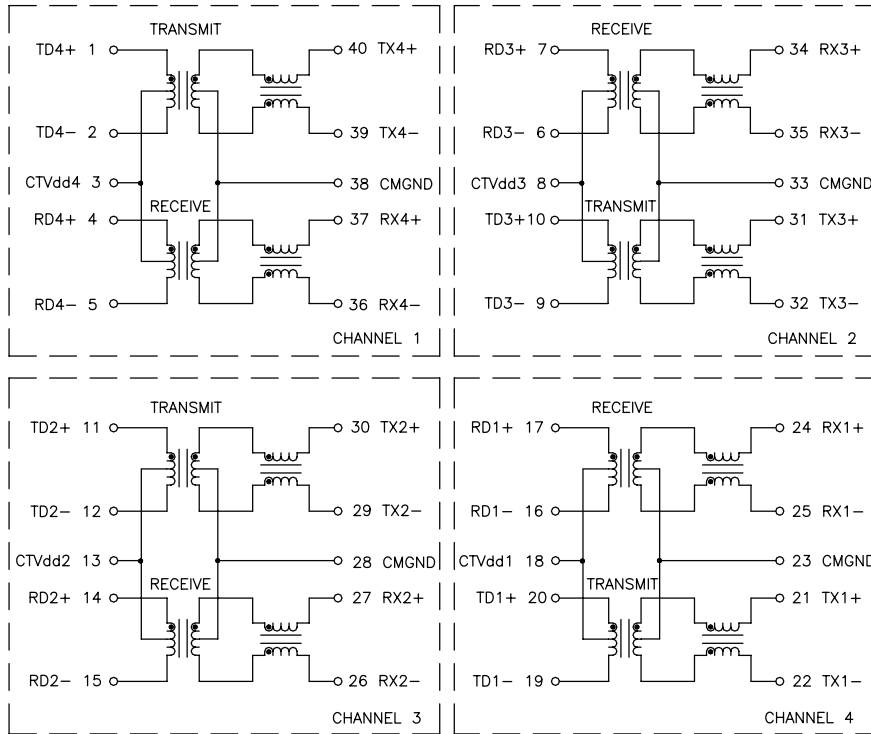
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Electrical Schematic

100B-2002/X

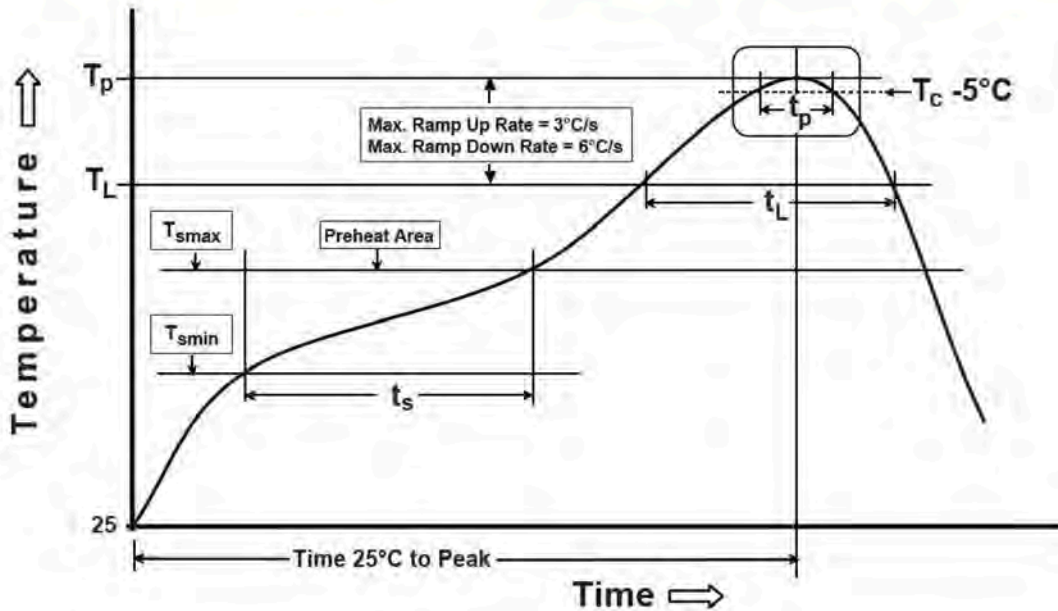


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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



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)
100	150	183	235	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

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