

1000BASE-T SINGLE PORT TRANSFORMER MODULE

Ruggedized



- Compliant with IEEE 802.3ab for 1000Base-T
- 350µH OCL with 8mA bias at extended temperatures
- Storage Temperature: -55°C to +125°C
- IC grade encapsulated package withstands 235°C peak temperature
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C — Operating Temperature -55°C to +125°C

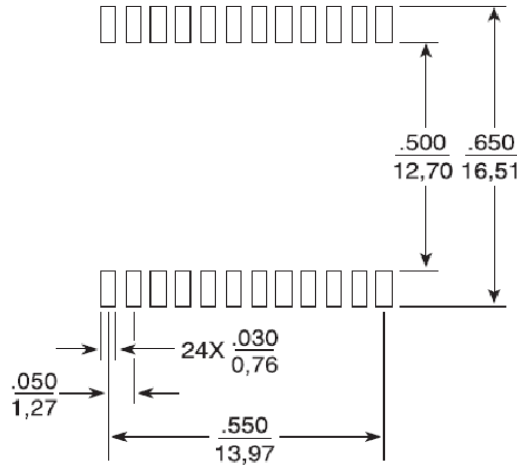
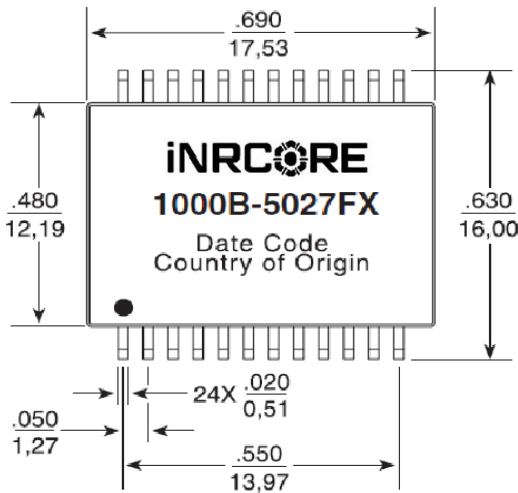
Part Number	Insertion Loss (dB Min)	Return Loss (dB Max)				Crosstalk (dB Max)			CM to CM Rejection Ratio (dB Max)			DM to CM Rejection Ratio (dB Max)		
		0.1-100 Mhz	30 Mhz	60 Mhz	80 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	30 Mhz	60 Mhz
1000B-5027FX	-1.40	-18	-12	-10	-8	-43	-37	-33	-40	-35	-30	-43	-37	-33

Note: 1. Add suffix NL for RoHS compliant part; 1000B-5027X becomes 1000B-5027XNL.

2. For Tape and Reel Packaging, add "T" suffix at the end of the part number; i.e. 1000B-5027XT

Mechanical

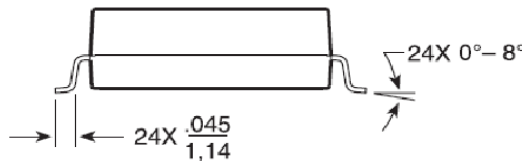
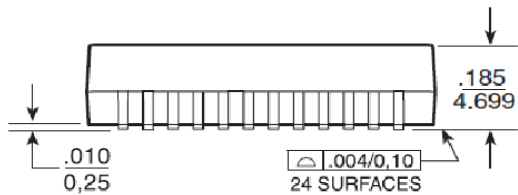
1000B-5027FX



Weight 3.0 grams
 Tape and Reel 300/reel
 Tube 25/tube

Dimensions: Inches
 mm
 Unless otherwise specified,
 all tolerances are ± .010
 0,25

SUGGESTED PAD LAYOUT



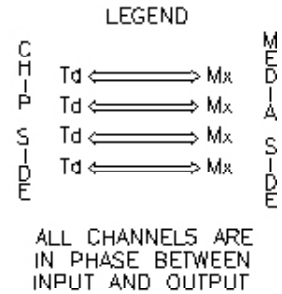
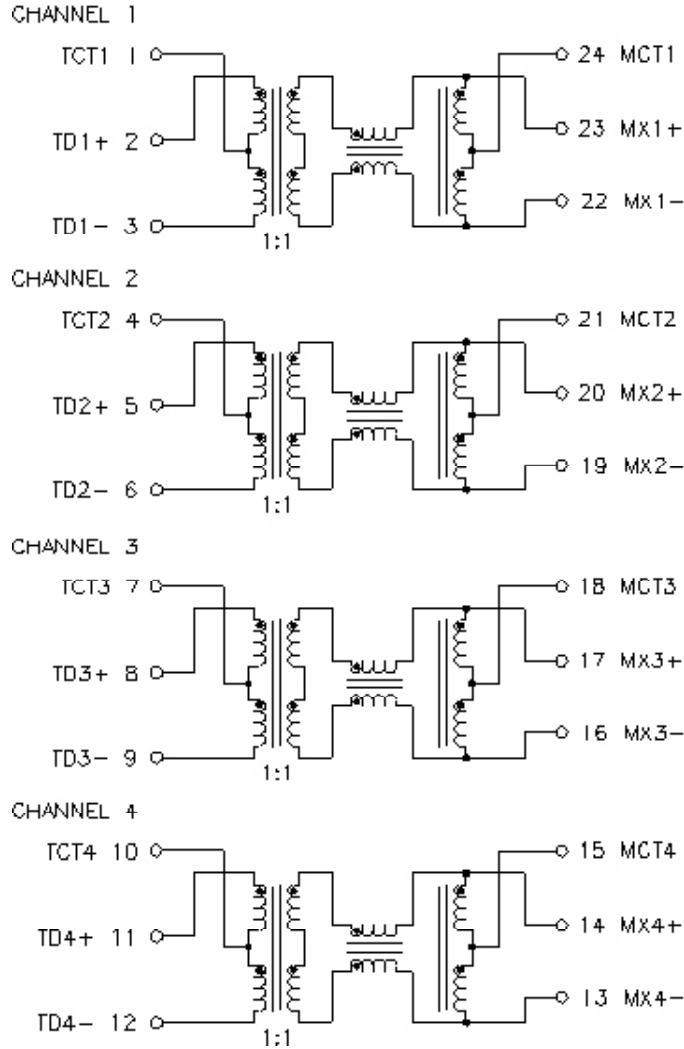
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Electrical Schematic

1000B-5027FX

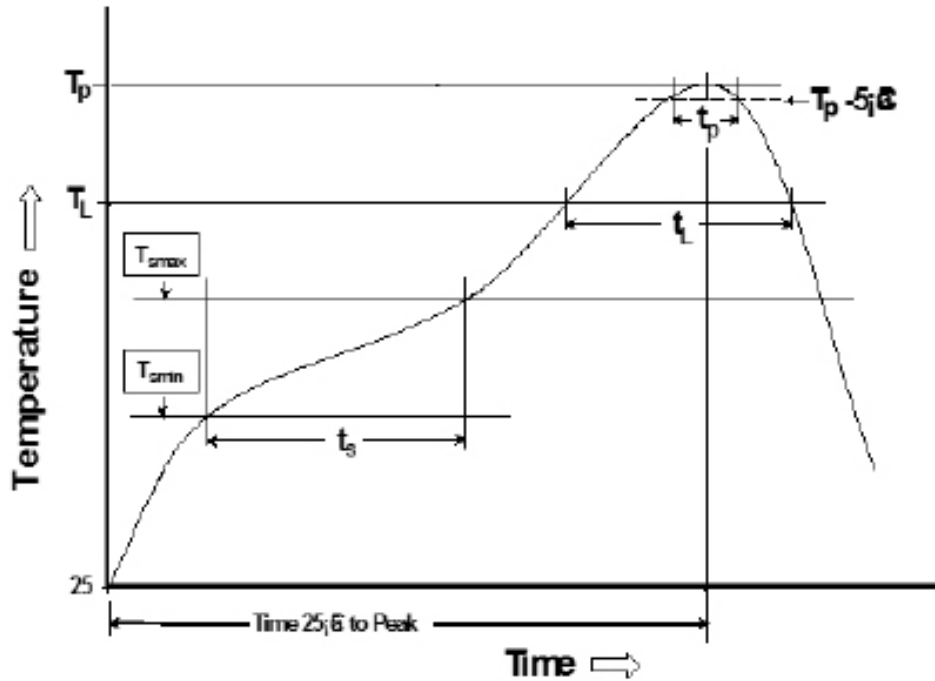


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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



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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