

10/100 BASE-TX SINGLE PORT TRANSFORMER MODULE

Ruggedized



- ☉ Compliant with IEEE 802.3 standard
- ☉ 350µH OCL with 8mA bias at extended temperatures
- ☉ Operating Temperature: 100B-1027: -40°C to +85°C
100B-1027X: -55°C to +125°C
- ☉ Storage Temperature: -55°C to +125°C
- ☉ Lead finish: Hot Dip Sn63/Pb37 Solder
- ☉ Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C

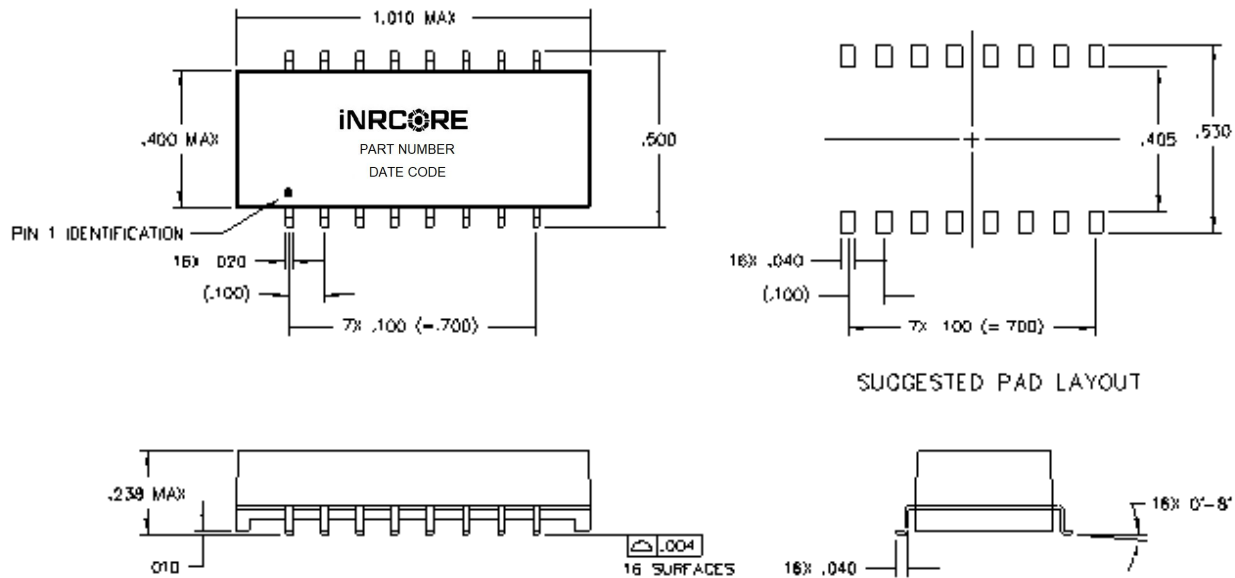
Part Number	Insertion Loss (dB Min)	Return Loss (dB Max)						Crosstalk (dB Max)			Differential To Common Mode Rejection (dB Max)			Dielectric Withstanding Voltage @5s MIN (Vrms) Primary to Secondary
		0.1-100 MHz	2 MHz	30 MHz	50 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	
100B-1027	-1.4	-18	-18	-14	-12	-10	-8	-45	-38	-33	-42	-37	-33	1500
100B-1027X	-1.4	-18	-18	-14	-12	-10	-8	-45	-38	-33	-42	-37	-33	1500

Notes:

1. Add suffix "T" to part number for Tape & Reel package (ie: 100B-1027T).
2. Add suffix "NL" for RoHS compliant part; i.e. 100B-1027 becomes 100B-1027NL.

Mechanical

100B-1027(X)



DIMENSIONS: INCHES
UNLESS OTHERWISE SPECIFIED,
ALL TOLERANCES ARE ±.010

WEIGHT.....3.5GRAMS MAX
TAPE AND REEL.....300PCS/REEL
TUBE.....20PCS/TUBE



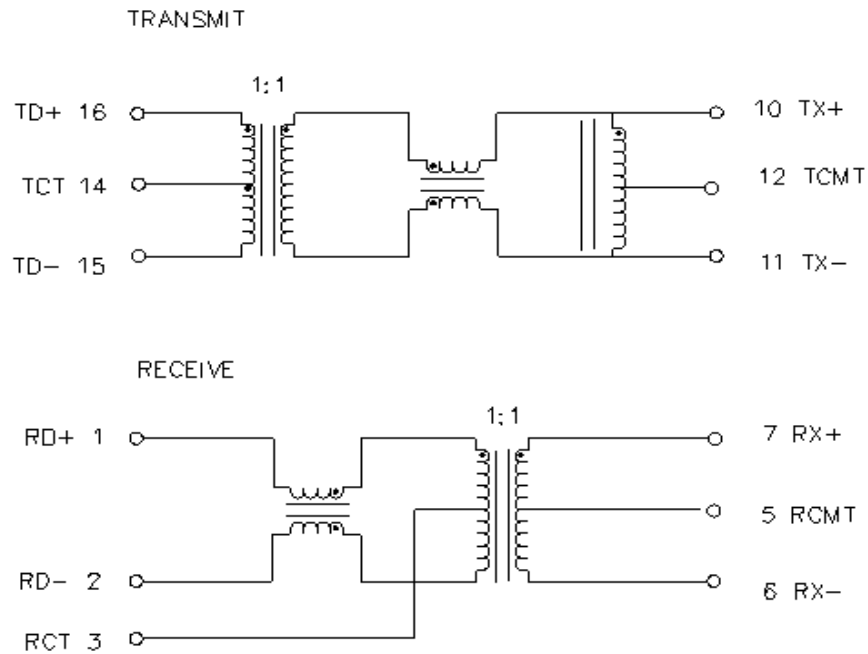
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Electrical Schematic

100B-1027(X)

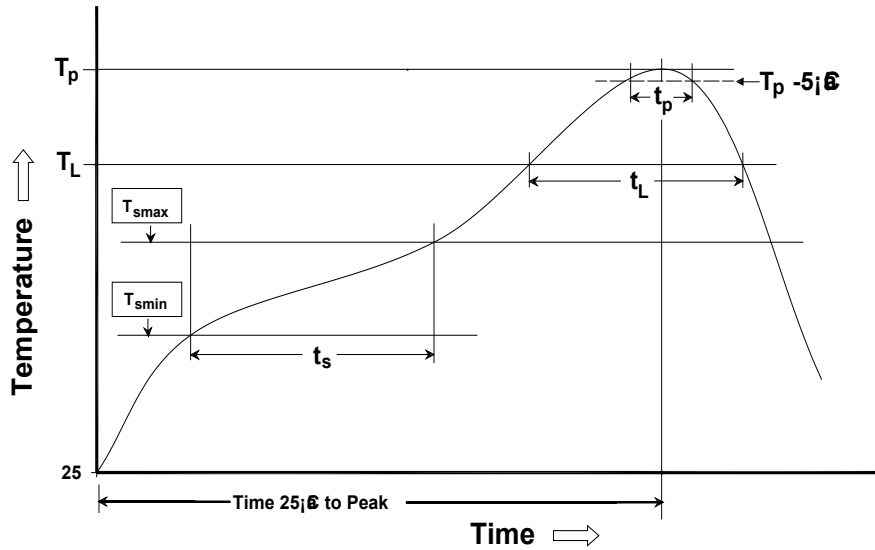


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No Lead Recommended Reflow Profile (Based on J-STD-020D)



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.

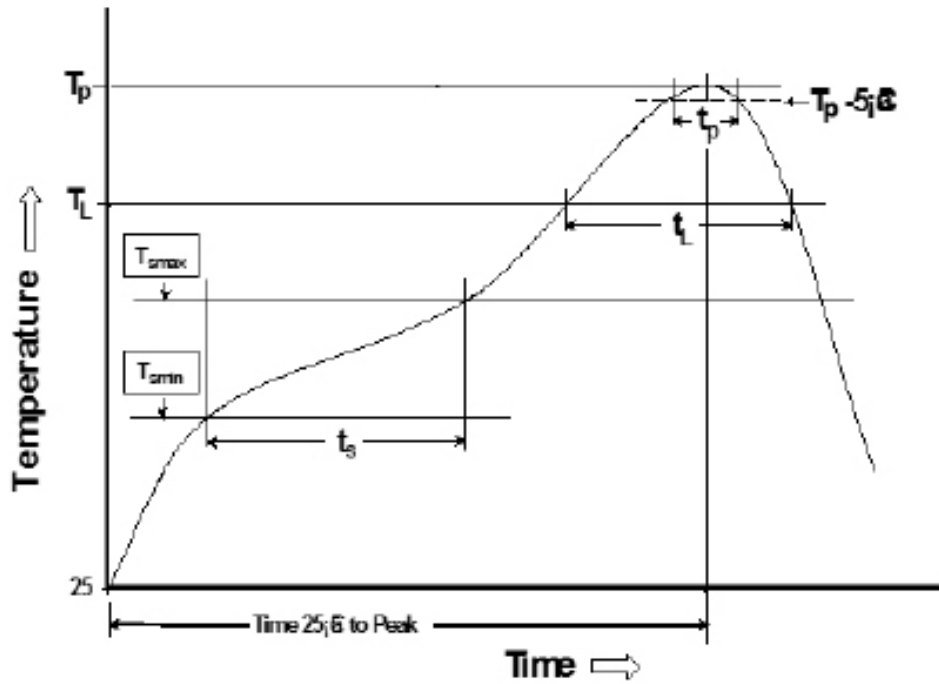


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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



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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