

10/100BASE-TX SINGLE PORT TRANSFORMER MODULES

Ruggedized



- Compliant with IEEE 802.3u & ANSI X3.263 standards
- 350pH OCL with 8mA D.C.bias
- Operating and storage temperature:
100B-1001F & 100B-1003: -40°C to +85°C
100B-1001FX & 100B-1003X: -55°C to +125°C
- Moisture Sensitivity Level: 3
- Maximum Isolation Voltage: 1500 VAC

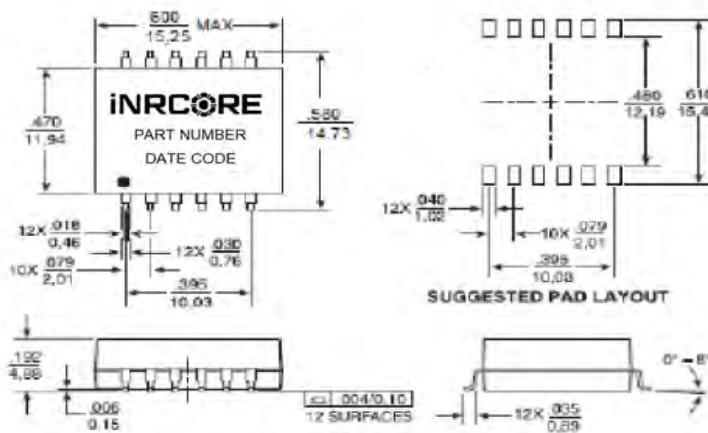
Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MIN)	Return Loss (dB MAX)				Crosstalk (dB MAX)				DM to CM Rejection Ratio (dB MAX)		
	0.1-100 MHz	2-30 MHz	50 MHz	60 MHz	80 MHz	16 MHz	30 MHz	60 MHz	80 MHz	0.1-30 MHz	30-60 MHz	60-100 MHz
100B-1001	-1.00	-18	-14	-12	-12	-48	-44	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -30 RX: -30
100B-1001X	-1.10	-18	-14	-12	-10	-48	-44	-40	-38	TX: -45 RX: -45	TX: -40 RX: -40	TX: -38 RX: -33
100B-1001F	-1.00	-18	-14	-12	-12	-48	-44	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -30 RX: -30
100B-1001FX	-1.10	-18	-14	-12	-10	-48	-44	-40	-38	TX: -45 RX: -45	TX: -40 RX: -40	TX: -38 RX: -33
100B-1003	-1.00	-20	-14	-12	-12	-48	-45	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -35 RX: -35
100B-1003X	-1.00	-20	-14	-12	-12	-48	-45	-40	-38	TX: -45 RX: -45	TX: -40 RX: -40	TX: -35 RX: -35
100B-1003F	-1.00	-20	-14	-12	-12	-48	-45	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -35 RX: -35
100B-1003FX	-1.00	-20	-14	-12	-12	-48	-45	-40	-38	TX: -45 RX: -35	TX: -40 RX: -35	TX: -35 RX: -35

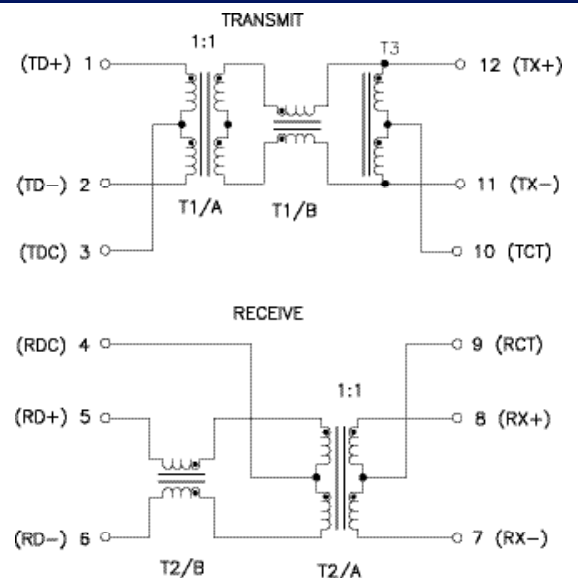
- Notes:
- Standard Part have a Sn63/Pb37 Lead Finish (MSL:3)
 - Add suffix "NL" for RoHS compliant version; i.e. 100B-1001F becomes **100B-1001FNL**. NL Parts have 100% Sn Lead Finish (MSL: 4)
 - For Tape&Reel Packaging, add "T" suffix at the end of the part number; i.e. **100B-1003FXNL T**
 - Maximum Hi-Pot 1800VAC/2500VDC for 6 Sec.

Mechanicals

100B-1001F/X



Electrical Schematics



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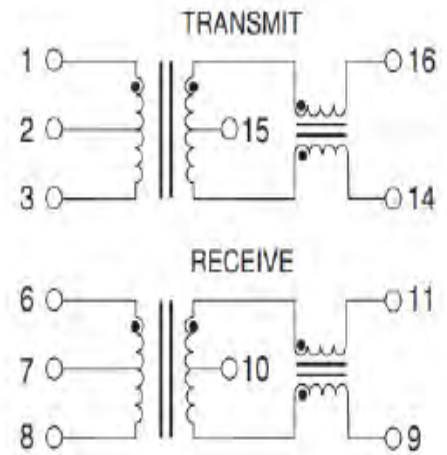
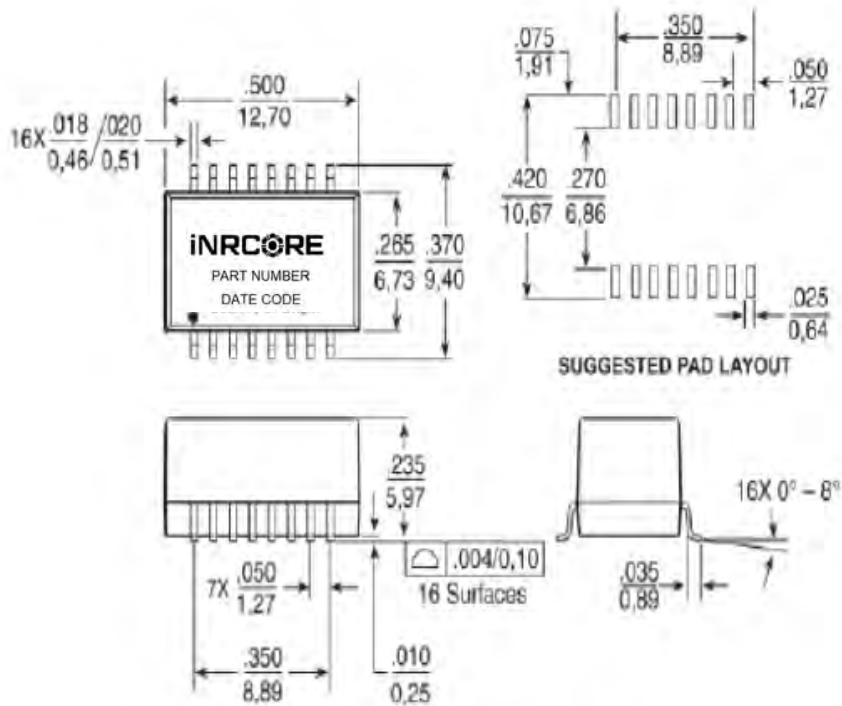
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Mechanicals

Electrical Schematics

100B-1003F/X



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

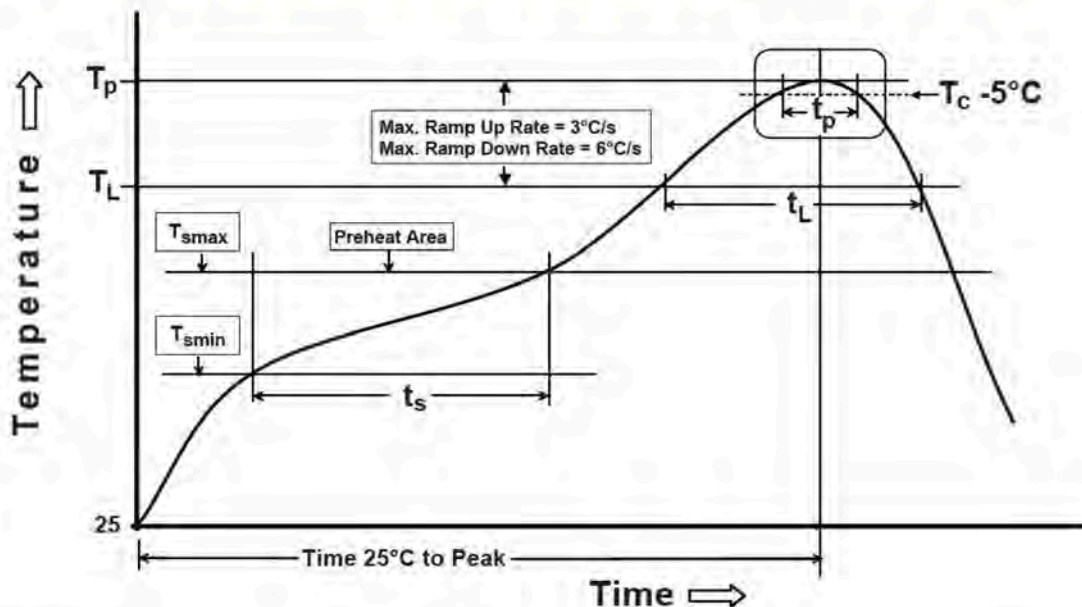


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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



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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