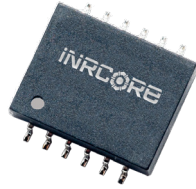


10/ 100 BASE-TX SINGLE PORT TRANSFORMER MODULE

Ruggedized



INRCORE
INRCORE FAMILY OF BRANDS

- Compliant with IEEE 802.3u & ANSI X3.263 standards
- 350 μ H OCL with 8mA D.C.bias
- Dielectric Withstanding Voltage (DWV): 1500 Vrms
- Operating and storage temperature:
 - 100B-1001F & 100B-1003F: -40°C to +80°C
 - 100B-1001FX & 100B-1003FX: -55°C to +125°C
- Lead Finish: Sn63Pb37
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)					Return Loss (dB MIN)					Crosstalk (dB MIN)				DM to CM Rejection Ratio (dB MIN)			
	0.10 MHz	30 MHz	60 MHz	80 MHz	100 MHz	2 MHz	30 MHz	50 MHz	60 MHz	80 MHz	16 MHz	30 MHz	60 MHz	80 MHz	0.10 MHz	30 MHz	60 MHz	100 MHz
100B-1001F	1.0	1.0	1.0	1.0	1.0	18	18	14	12	12	48	44	40	38	45	40	30	30
100B-1001FX	1.1	1.1	1.1	1.1	1.1	18	18	14	12	10	48	44	40	38	45	40	30	33
100B-1003F	1.0	1.0	1.0	1.0	1.0	20	20	14	12	12	48	45	40	38	45	40	35	35
100B-1003FX	1.2	1.2	1.2	1.2	1.2	20	20	14	12	12	48	45	40	38	35	35	35	35

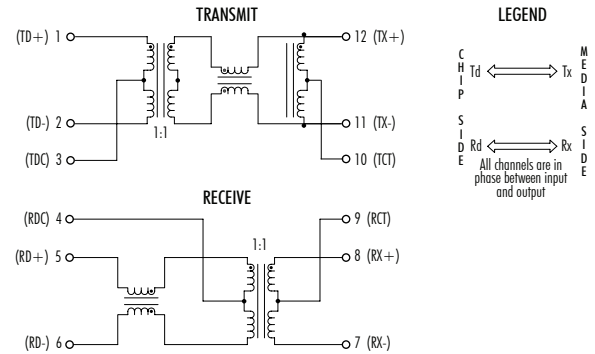
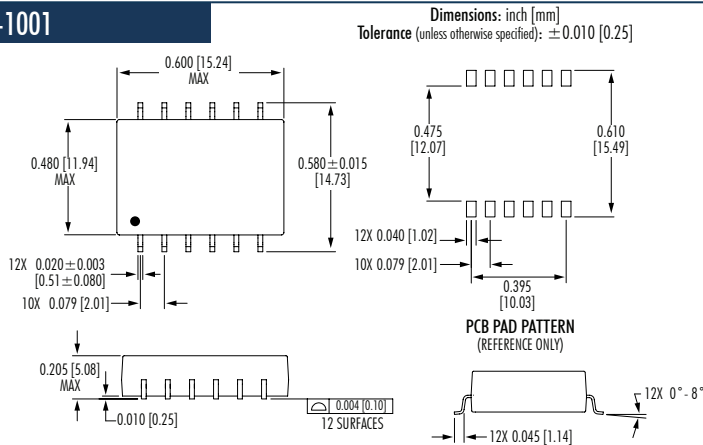
NOTES:

- Add suffix "NL" for RoHS compliant version; i.e. 100B-1001F becomes **100B-1003FNL**. NL parts have 100% SN Lead Finish.
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. **100B-1003FXNL**.

Mechanicals

Electrical Schematics

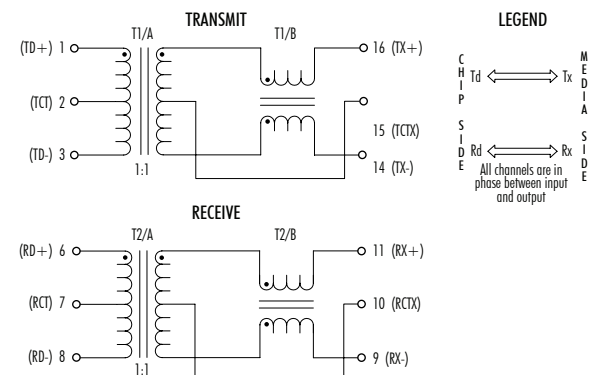
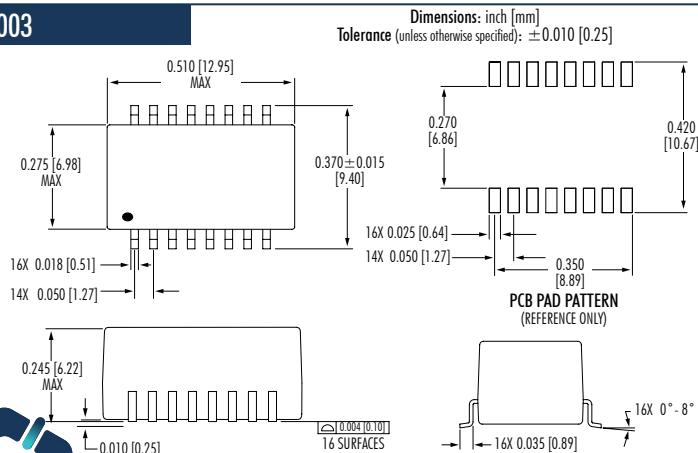
100B-1001



Mechanicals

Electrical Schematics

100B-1003



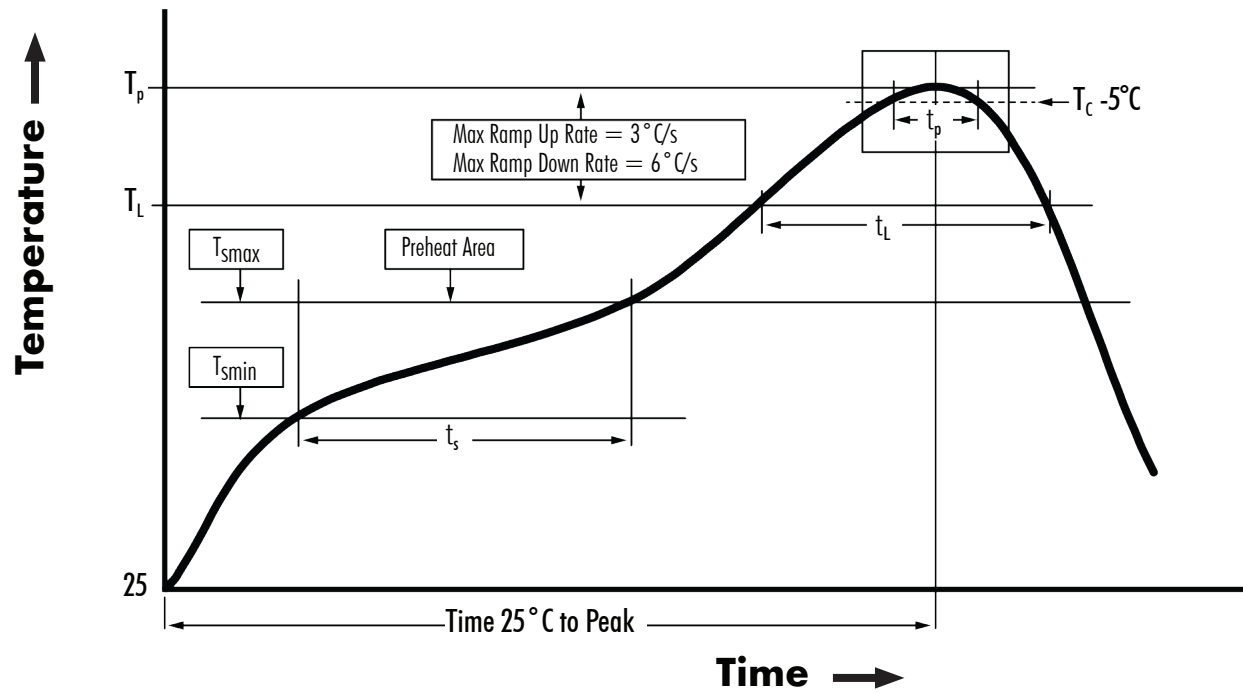
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M651.A (12AUG25)

10/ 100 BASE-TX SINGLE PORT
TRANSFORMER MODULE

Ruggedized

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)
Tin/Lead Profile									
100	150	183	220	60 - 120	60 - 150	20	3°C/s MAX	6°C/s MAX	360
Non-Lead Profile									
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 number of reflow cycles not to exceed 2.



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