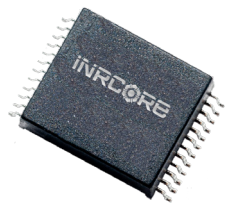


10/100BASE-TX DUAL PORT TRANSFORMER MODULE

Ruggedized

iNRCORE
iNRCORE FAMILY OF BRANDS



- Compliant with IEEE 802.3 standards
- 350 μ H OCL with 8mA DC bias
- Operating and Storage Temperature:
 - 100B-2002: -40°C to +85°C
 - 100B-2002X: -55°C to +125°C
- Dielectric Withstanding Voltage (DWV): 1500 Vrms
- 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	100 MHz	5 MHz	30 MHz	40 MHz	50 MHz	60 MHz	80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	2 MHz	60 MHz	100 MHz	200 MHz
100B-2002	1.2	1.2	1.2	1.2	18	18	16	15	12	12	50	43	37	33	43	37	33	22
100B-2002X	1.2	1.2	1.2	1.2	18	18	16	15	12	12	50	43	37	33	43	37	33	22

NOTES:

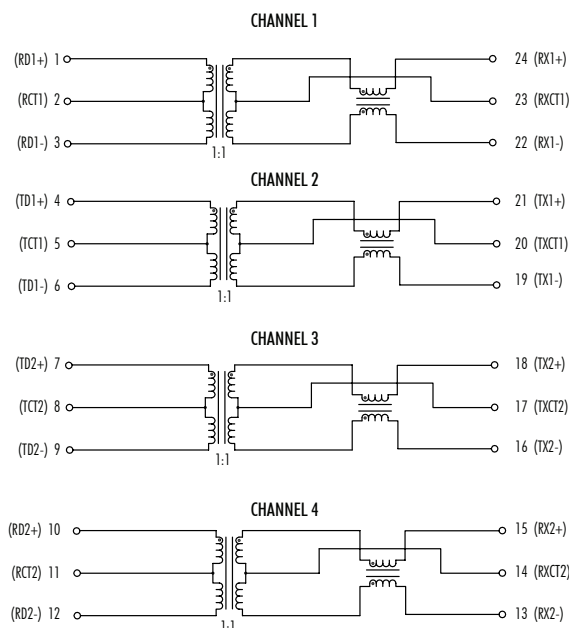
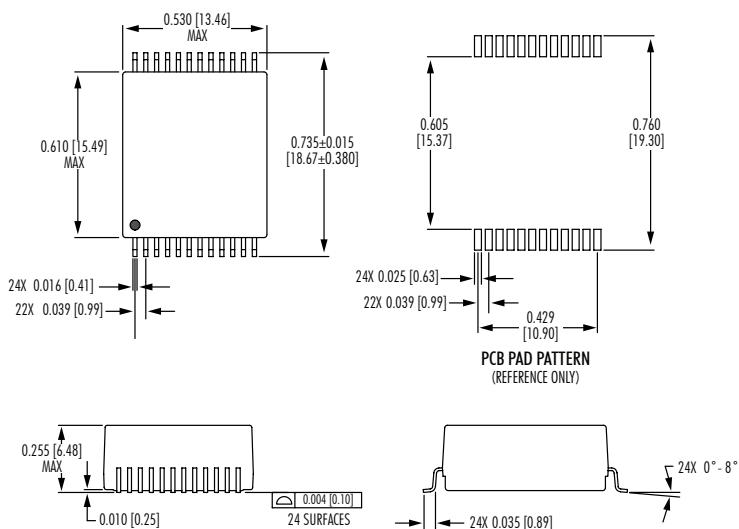
- Add suffix "NL" for RoHS compliant version; i.e. 100B-2002 becomes 100B-2002NL. NL parts have 100% SN Lead Finish (MSL:3)
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. 100B-2002XNLT.

Mechanicals

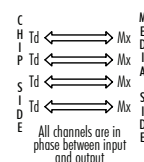
Electrical Schematics

100B-2002 / 100B-2002X

Dimensions: inch [mm]
Tolerance (unless otherwise specified): ± 0.010 [0.25]



LEGEND



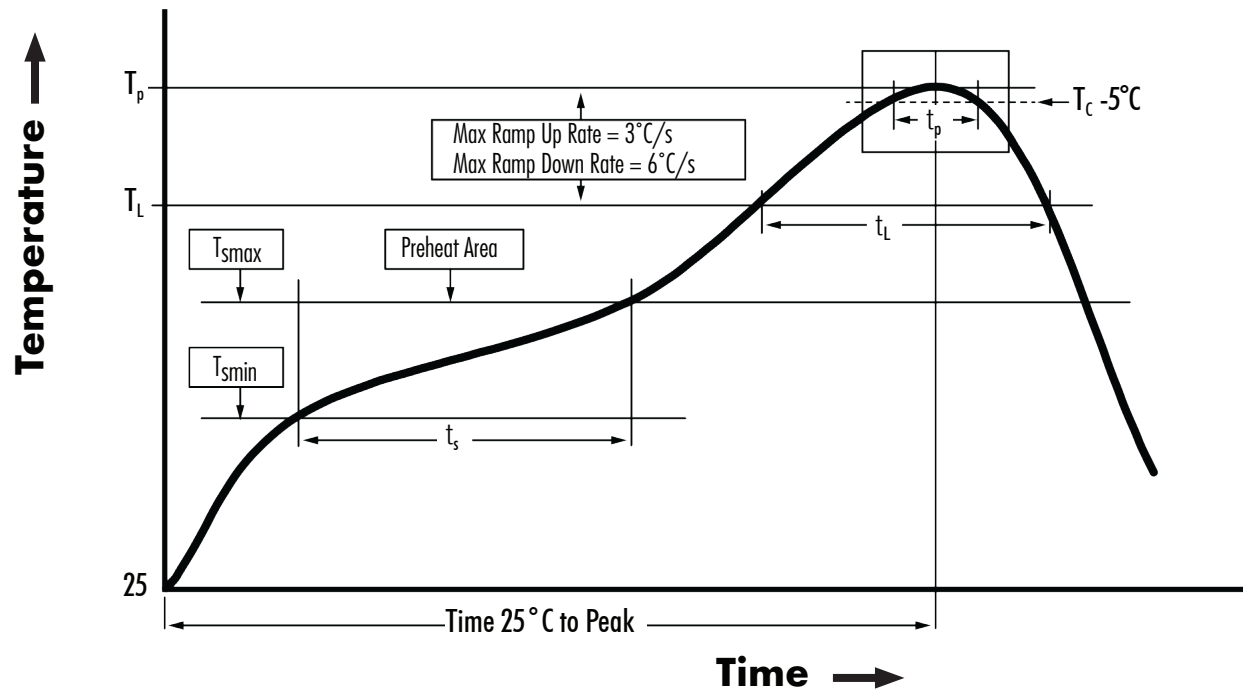
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M192.D (04AUG25)

10/100BASE-TX DUAL 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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