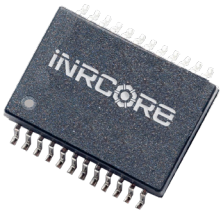
10G BASE-T TRANSFORMER MODULE

Ruggedized



- Compliant with IEEE 802.3 standards
- OCL 120uH Min with 8mA DC bias at 100KHz 100mV
- Operating Temperature: -40°C to +85°C
- Dielectric Withstanding Voltage (DWV): 1500 Vrms
- Epoxy Encapsulated
- Lead Finish: Sn63Pb37
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)			Return Loss (dB MIN)			Crosstalk (dB MIN)			CM to CM Rejection (dB MIN)			
	0.30 MHz	1 MHz	500 MHz	2 MHz	100 MHz	500 MHz	1 MHz	100 MHz	500 MHz	1 MHz	100 MHz	300 MHz	500 MHz
10GB-6006	3.0	1.0	1.0	25	11	11	40	21	9	35	30	25	25

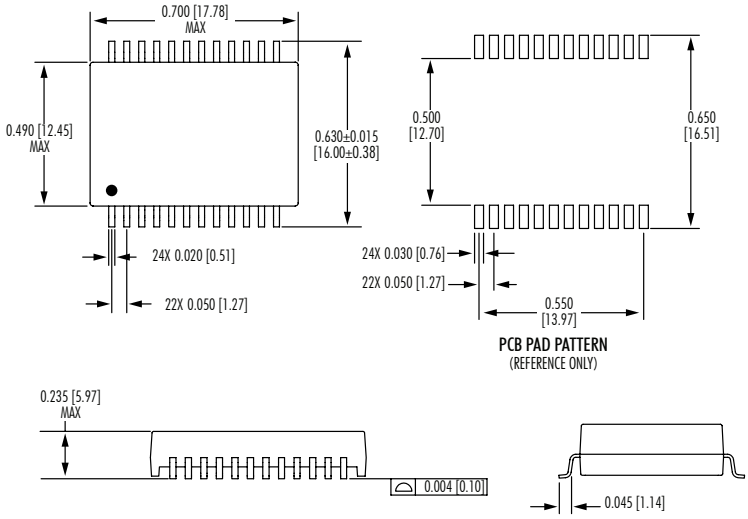
NOTES:

1. Add suffix "NL" for RoHS compliant version; i.e. 10GB-6006 becomes **10GB-6006NL**. NL parts have 100% SN Lead Finish.
2. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. **10GB-6006NLT**

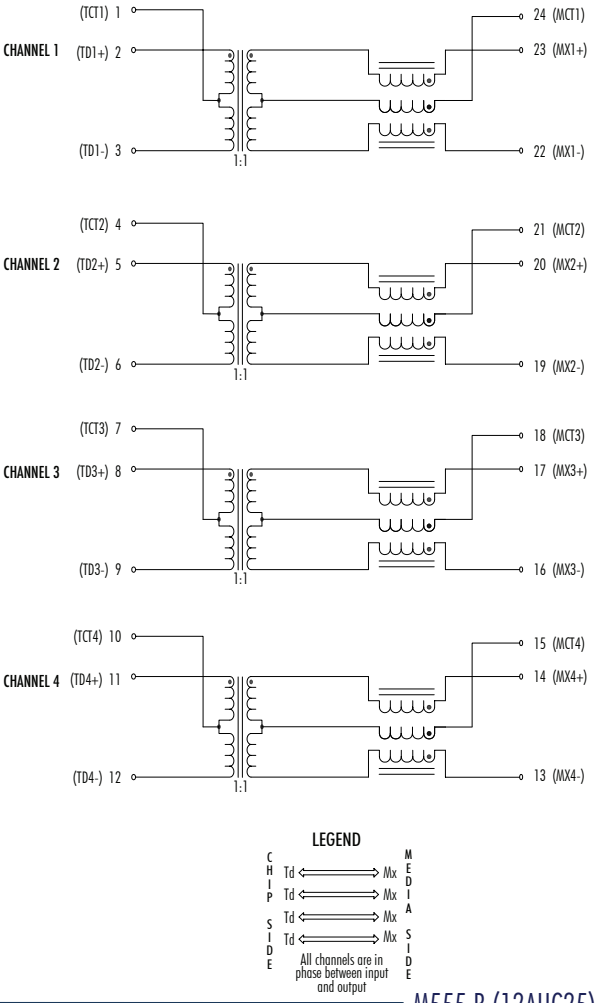
Mechanicals

10GB-6006

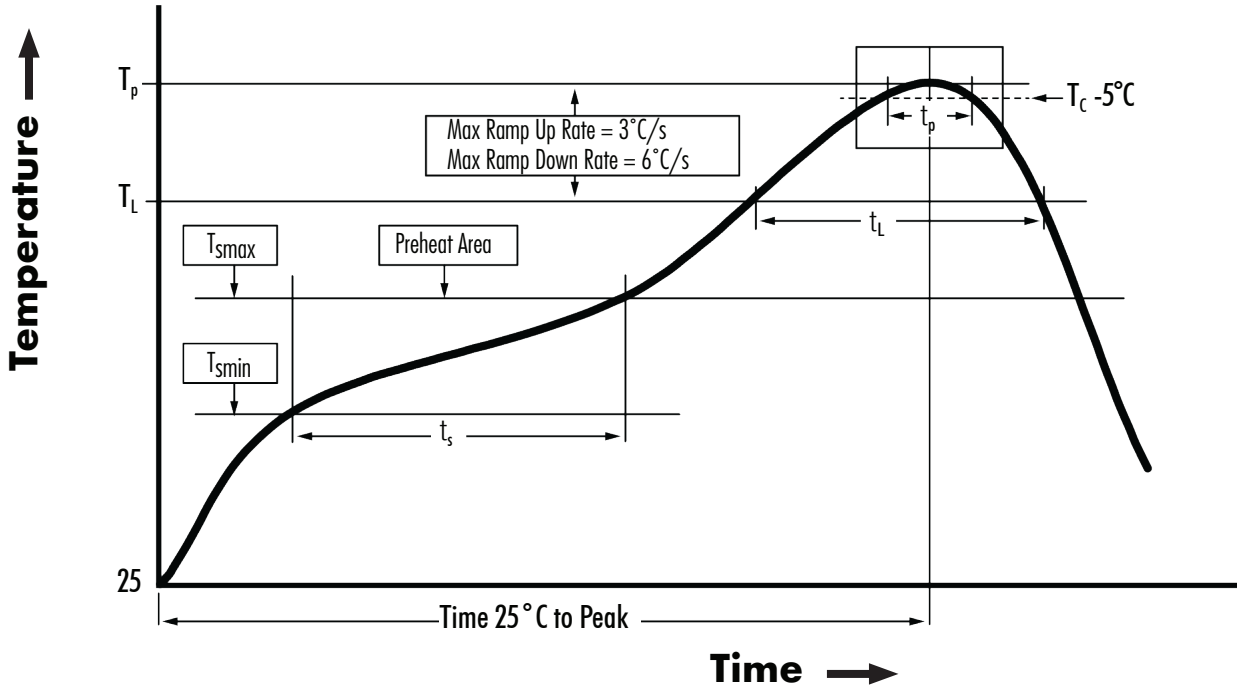
Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]



Electrical Schematics



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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