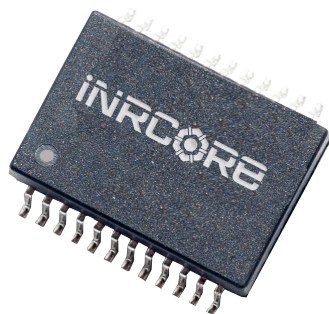


10G BASE-T TRANSFORMER MODULES

Ruggedized



- Compliant with IEEE 802.3 standards
- Operating Temperature:
 - 10GB-6014: -40°C to +85°C
 - 10GB-6014X: -55°C to +125°C
- Storage Temperature: -55°C to +125°C
- Dielectric Withstanding Voltage (DWV): 1500Vrms
- Terminal 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 (dB MIN)		
	100 KHz	1 MHz	300 MHz	400 MHz	500 MHz	1 MHz	100 MHz	300 MHz	400 MHz	500 MHz	1 MHz	100 MHz	400 MHz	500 MHz	1 MHz	250 MHz	500 MHz
10GB-6010	3.0	1.2	1.2	2.4	2.4	22	20	12	10	8	40	37	30	25	40	30	22
10GB-6010X	3.0	1.2	1.2	2.4	2.4	22	20	12	10	8	40	37	30	25	40	30	22

NOTES:

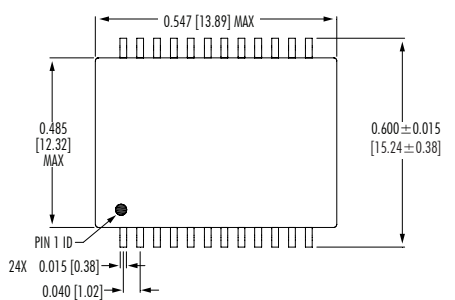
- Add suffix "NL" for RoHS compliant version; i.e. 10GB-6010 becomes 10GB-6010NL.
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. 10GB-6010NLT.

Mechanicals

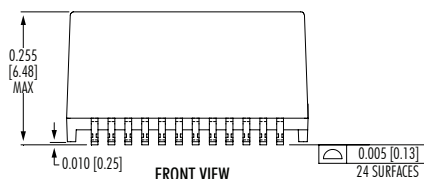
Electrical Schematics

10GB-6010 / 10GB-6010X

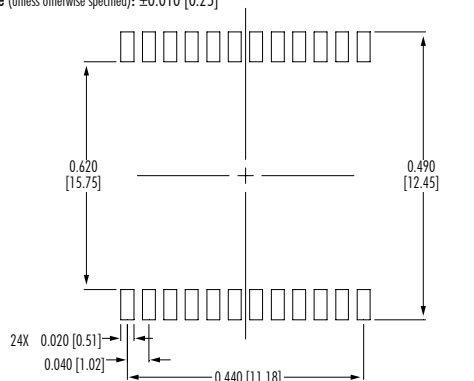
Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]



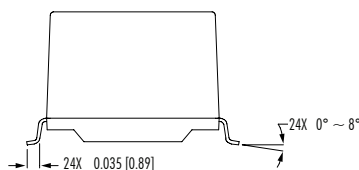
TOP VIEW



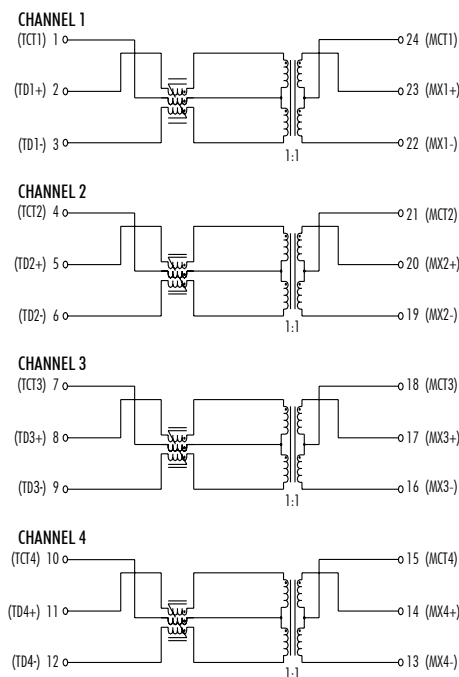
FRONT VIEW



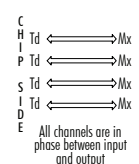
PCB PAD PATTERN
(REFERENCE ONLY)



SIDE VIEW

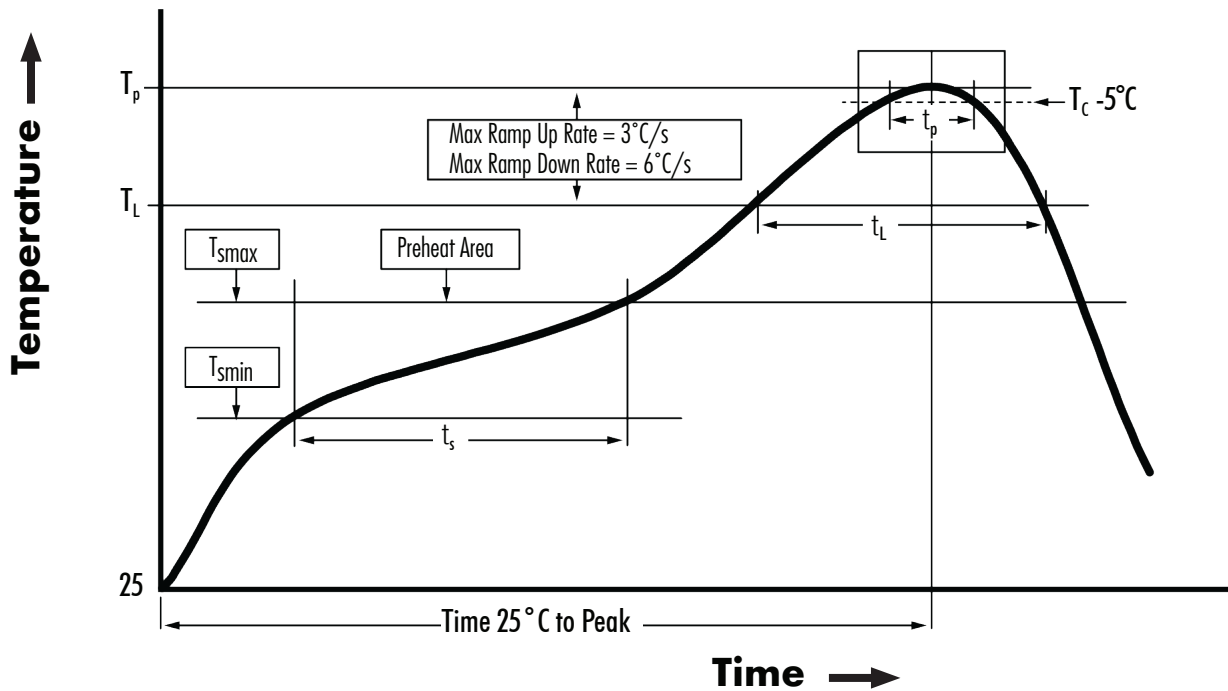


LEGEND



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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