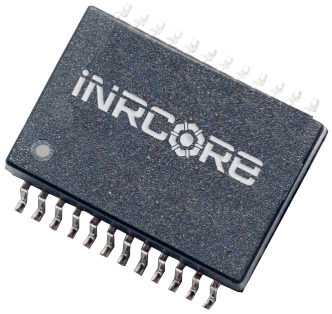
10G BASE-T PoE ++ TRANSFORMER MODULES

Ruggedized



- Compliant with IEEE 802.3 standards
- OCL 120µH MIN with 27mA DC bias, at 100KHz, 100mV
- Current Rating: 900mA Max per pair
- Operating Temperature:
  - 10GB-6013: -40°C to +85°C
  - 10GB-6013X: -55°C to +125°C
- Storage Temperature: -55°C to +125°C
- Dielectric Withstanding Voltage (DWV): 1500Vrms
- Epoxy encapsulated package
- Terminal Finish: Sn63/Pb37 (Pure tin for RoHS version)
- 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-6013	3	1.2	1.2	3	3	22	18	12	10	8	40	37	30	25	40	30	22
10GB-6013X	3	1.2	1.2	3	3	22	18	12	10	8	40	37	30	25	40	30	22

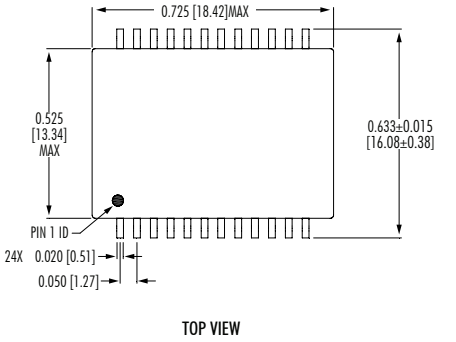
NOTES:

1. Add suffix "**NL**" for RoHS compliant version; i.e. 10GB-6013 becomes **10GB-6013NL**.
2. For Tape & Reel packaging, add "**T**" suffix at the end of the part number: i.e. **10GB-6013NLT**.

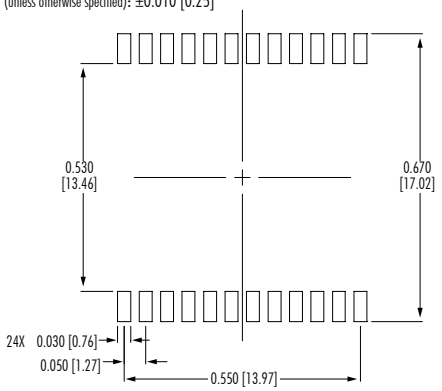
Mechanicals

10GB-6013 / 10GB-6013X

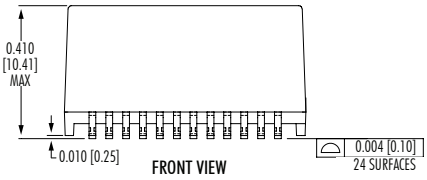
Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]



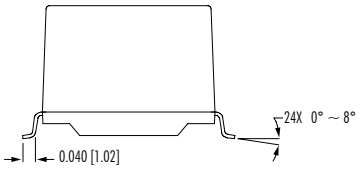
TOP VIEW



PCB PAD PATTERN
(REFERENCE ONLY)

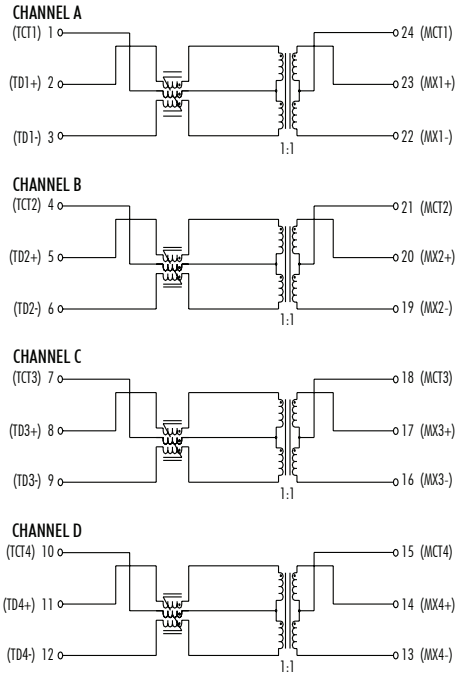


FRONT VIEW

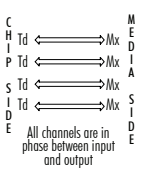


SIDE VEIW

Electrical Schematics

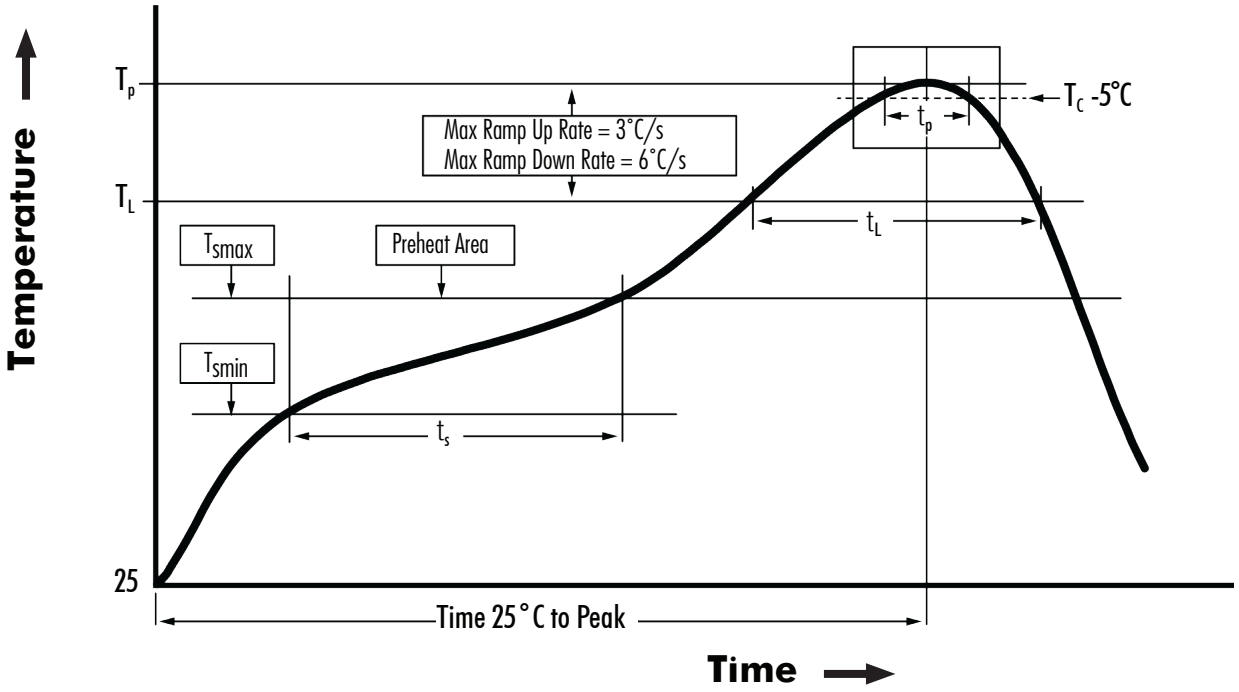


LEGEND



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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.
3. Reflow cycle applies only to surface mount parts.

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