

10GBASE-T
TRANSFORMER MODULE
Ruggedized



- Compliant with IEEE 802.3 standards
- Operating Temperature: -40°C to +125°C
- Storage temperature: -55°C to +125°C
- 120µH OCL with 9mA DC bias at extended temperatures
- Dielectric Withstanding Voltage: 1500Vrms
- 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)		
	0.3 MHz	100 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	1.0	1.2	2.0	2.4	22	20	12	10	8	40	37	30	25	40	30	22

Notes: 1. Add suffix "T" to part number for Tape & Reel package (ie: 10B-6010NLT).
2. Add suffix "NL" for RoHS compliant version; i.e. 10GB-6010 becomes 10GB-6010NL. NL part has Sn100 Lead Finish.

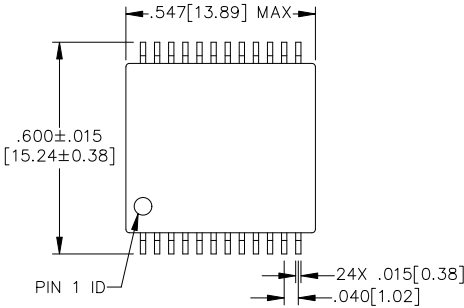
Mechanicals

Electrical Schematics

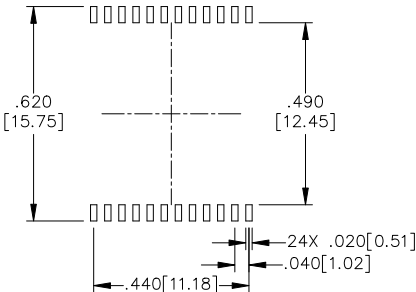
10GB-6010

Dimensions: inch [mm]

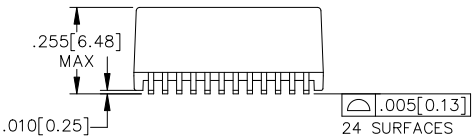
Tolerance (unless otherwise specified): ±0.010 [0.25]



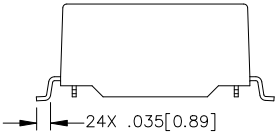
TOP VIEW



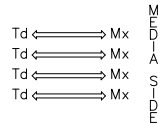
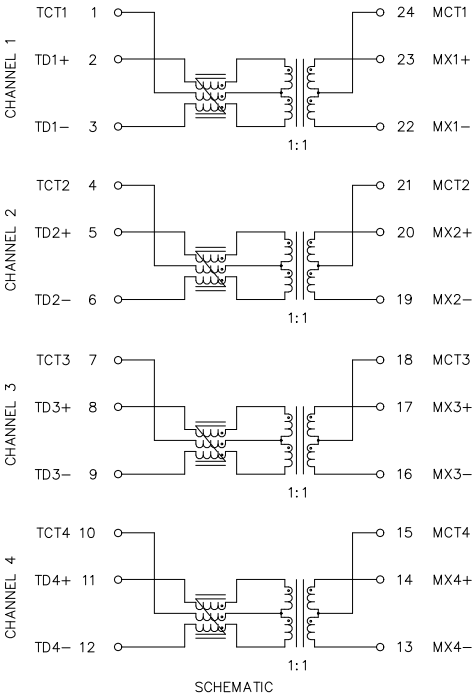
PCB PAD PATTERN (REFERENCE ONLY)



FRONT VIEW



SIDE VIEW



ALL CHANNELS ARE IN-PHASE BETWEEN INPUT AND OUTPUT

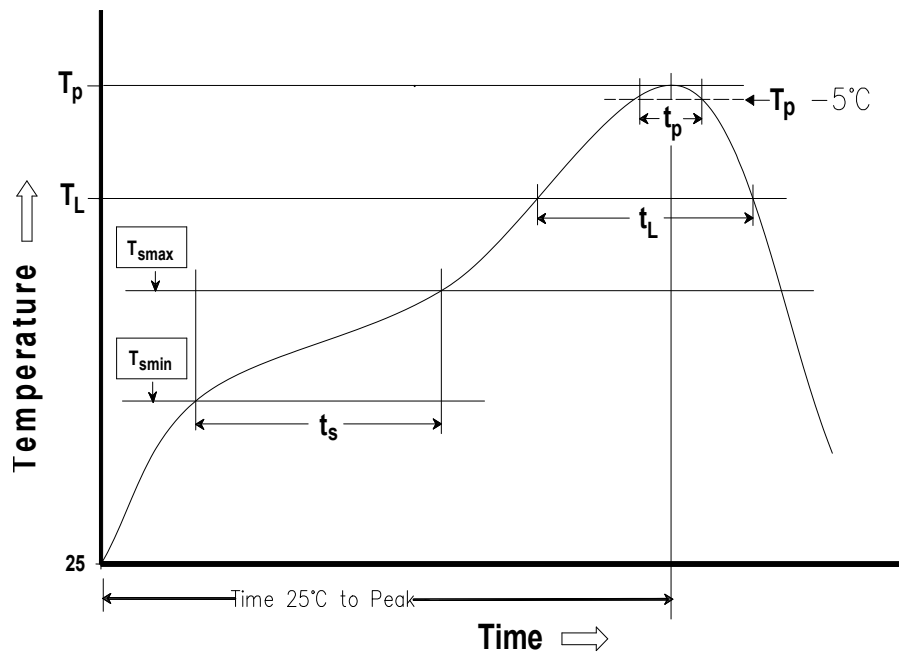


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Recommended Reflow Profile (Based on J-STD-020F)



T _{SMIN} (°C)	T _{S MAX} (°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.

For More Information

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