

# 10G BASE-T TRANSFORMER MODULE

Ruggedized



- Compliant with IEEE 802.3 standards
- Additional channel for CM noise detection
- Operating Temperature: -40°C to +125°C
- Storage Temperature: -55°C to +150°C
- Moisture Sensitivity Level: 3
- Terminal Finish: Sn/Pb

## Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)		Return Loss (dB MIN)						Crosstalk (dB MIN)			DM to CM Rejection (dB MIN)		
	0.10 MHz	500 MHz	1 MHz	10 MHz	100 MHz	300 MHz	400 MHz	500 MHz	1 MHz	100 MHz	400 MHz	1 MHz	250 MHz	500 MHz
10GB-6009	3	2	22	24	20	12	8	6	40	37	30	40	30	22

### NOTES:

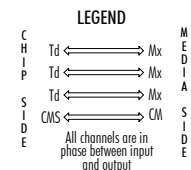
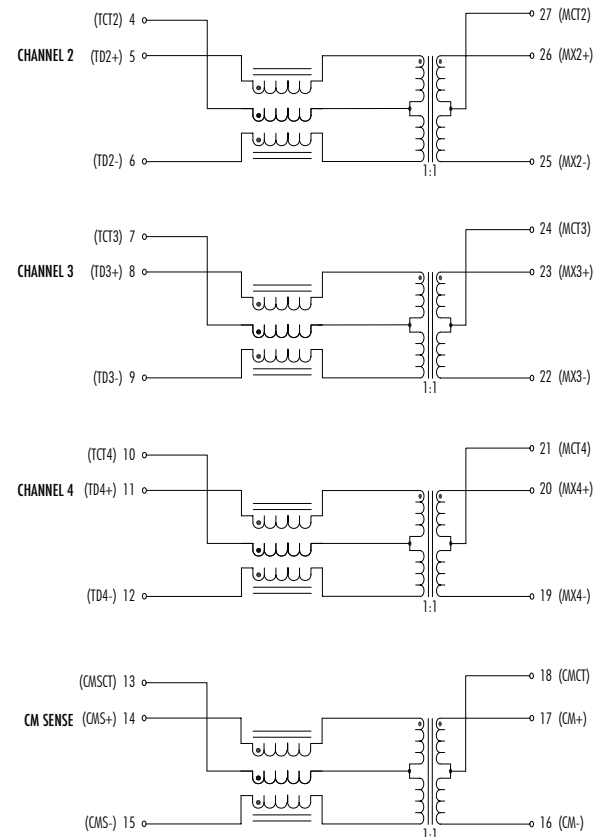
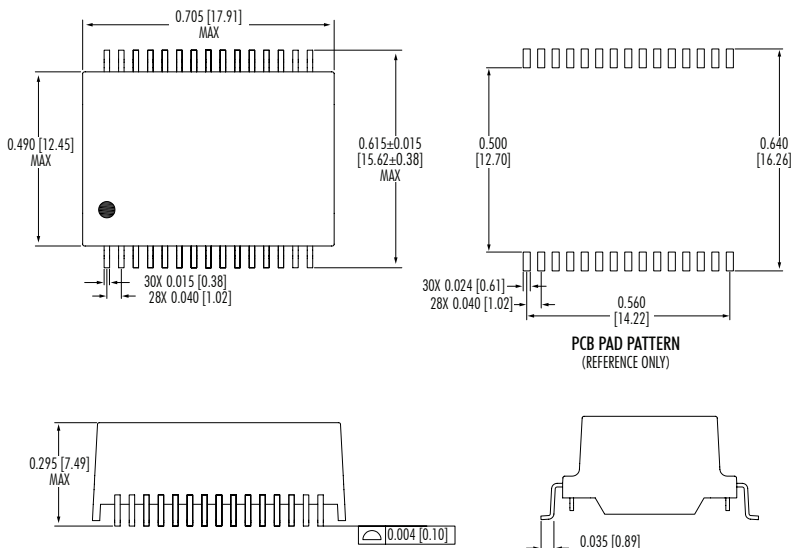
- Add suffix "NL" for RoHS compliant version; i.e. 10GB-6009 becomes 10GB-6009NL. NL parts have 100% SN Lead Finish (MSL:4)
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. 10GB-6009NLT.

## Mechanicals

## Electrical Schematics

10GB-6006

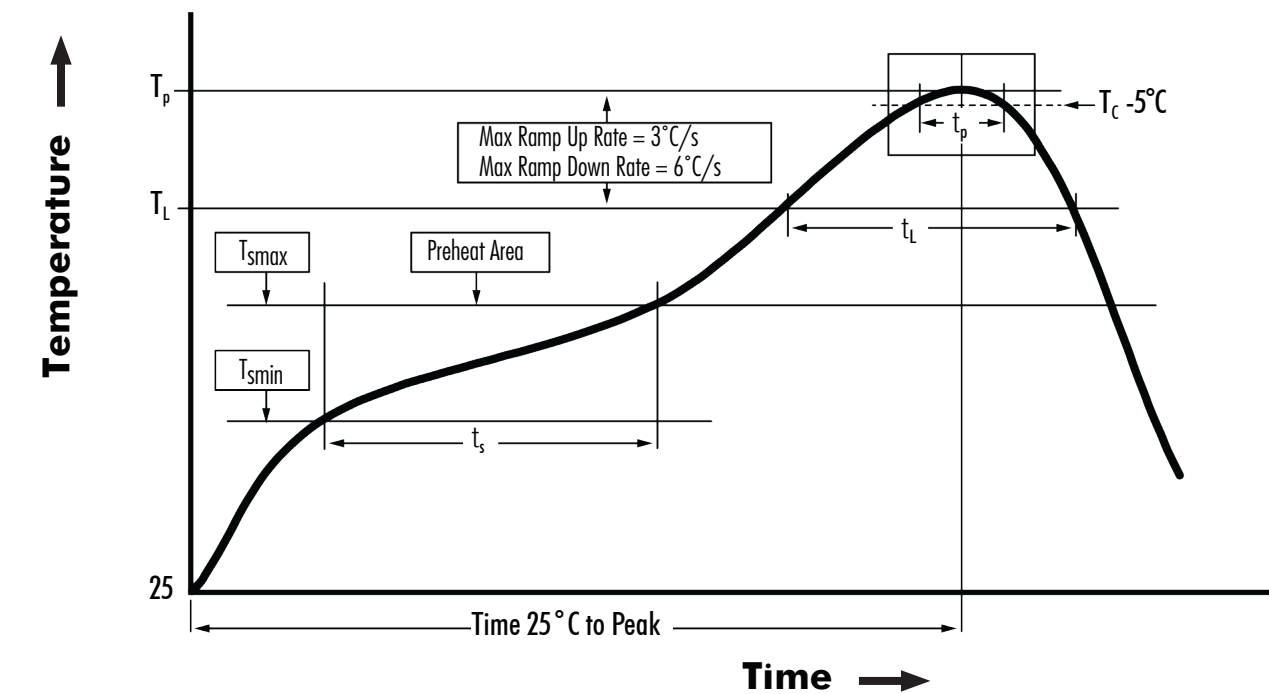
Dimensions: inch [mm]  
Tolerance (unless otherwise specified): ±0.010 [0.25]



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M562.A (11/21)

Tin/Lead 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)
100	150	183	235	60 - 120	60 - 150	20	3°C/s MAX	6°C/s MAX	360

NOTES:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2

