

- Transforms a balanced differential signal to a grounded, unbalanced signal - and vice versa (bi-directional operation)
- SMTPE 424M/425M, 2.973 Gbps data rate
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +125°C
- Moisture Sensitivity Level: 3
- Epoxy Encapsulated

Electrical Specifications @ 25°C

Part Number	Data Rate (Gbps)	Impedance Unbalanced (Ω)	Impedance Balanced (Ω)	Insertion Loss @ 1.5 GHz (dB MAX)	Return Loss @ 1.5 GHz (dB TYP)
		P (2-3)	P (7-6)		
TA-0751003G	2.973	75	100	4	6
TA-0751503G	2.973	75	150	4	6
TA-0501003G	2.973	50	100	4	6
TA-0750753G	2.973	75	75	6	4
TA-1001003G	2.973	100	100	6	4

NOTES:

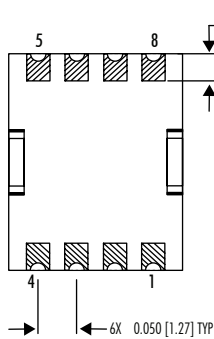
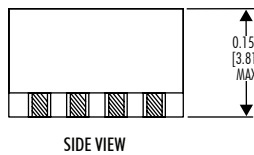
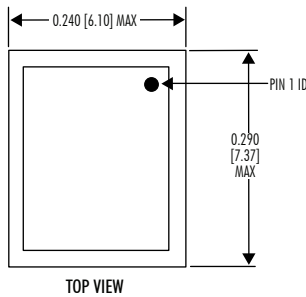
1. Add suffix "NL" for RoHS (Sn100 Lead Finish) compliant version; i.e. TA-0751003G becomes TA-0751003GNL
2. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. TA-0751003GT

Mechanicals

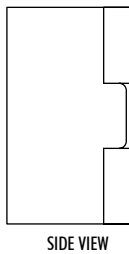
Electrical Schematics

TA-XXXXXXG

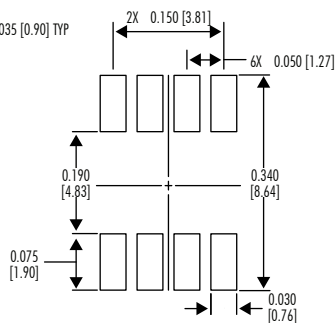
Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]



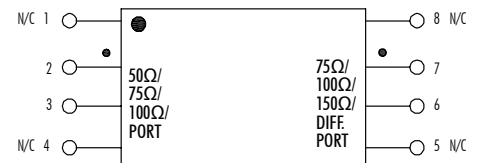
BOTTOM VIEW



SIDE VIEW



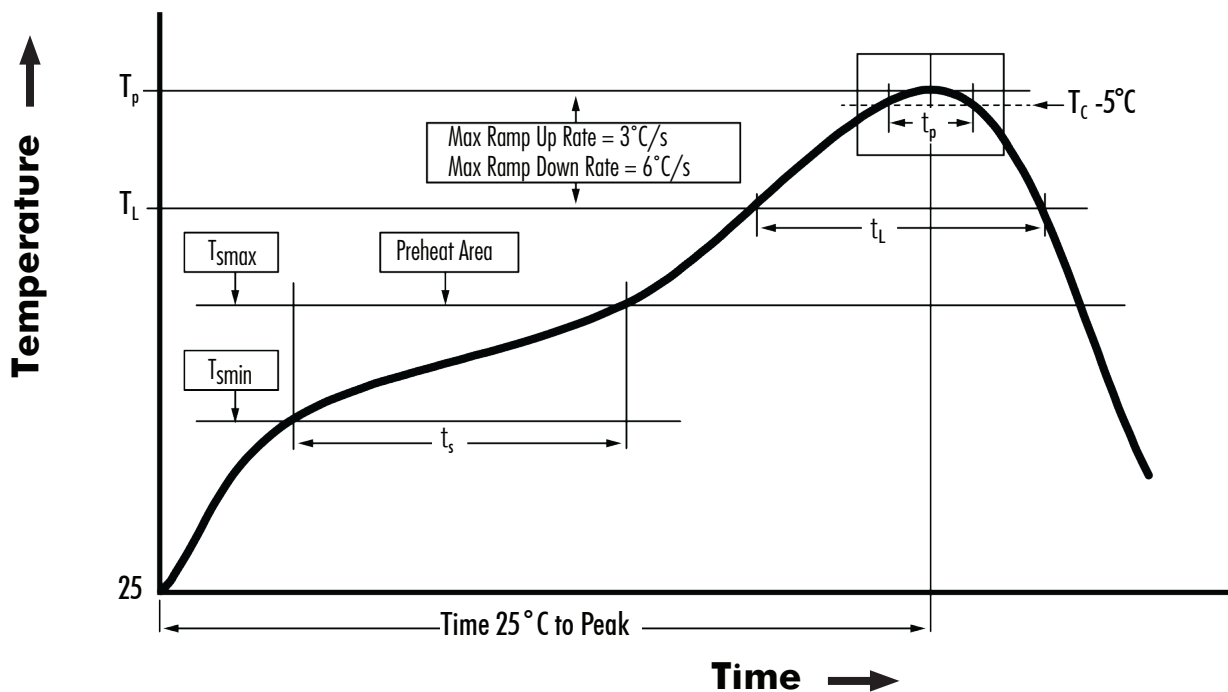
PCB PAD PATTERN
(REFERENCE ONLY)



Weight: 0.50 grams MAX



Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



$T_{S_{MIN}}$ (°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)
100	150	183	220	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 number of reflow cycles not to exceed 2.

