

- 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:

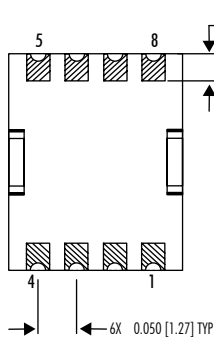
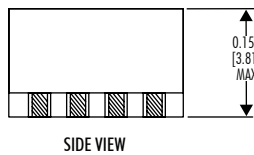
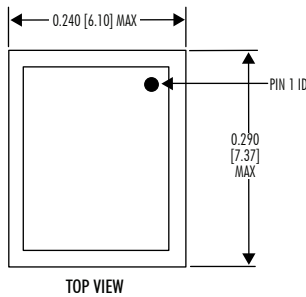
1. Add suffix "NL" for RoHS (Sn100 Lead Finish) compliant version; i.e. TA-0751003G becomes TA-0751003GNL
2. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. TA-0751003GT

Mechanicals

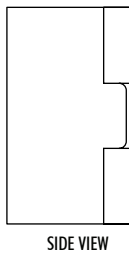
Electrical Schematics

TA-XXXXXXG

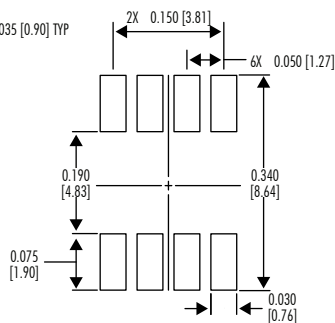
Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]



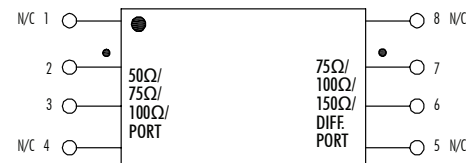
BOTTOM VIEW



SIDE VIEW



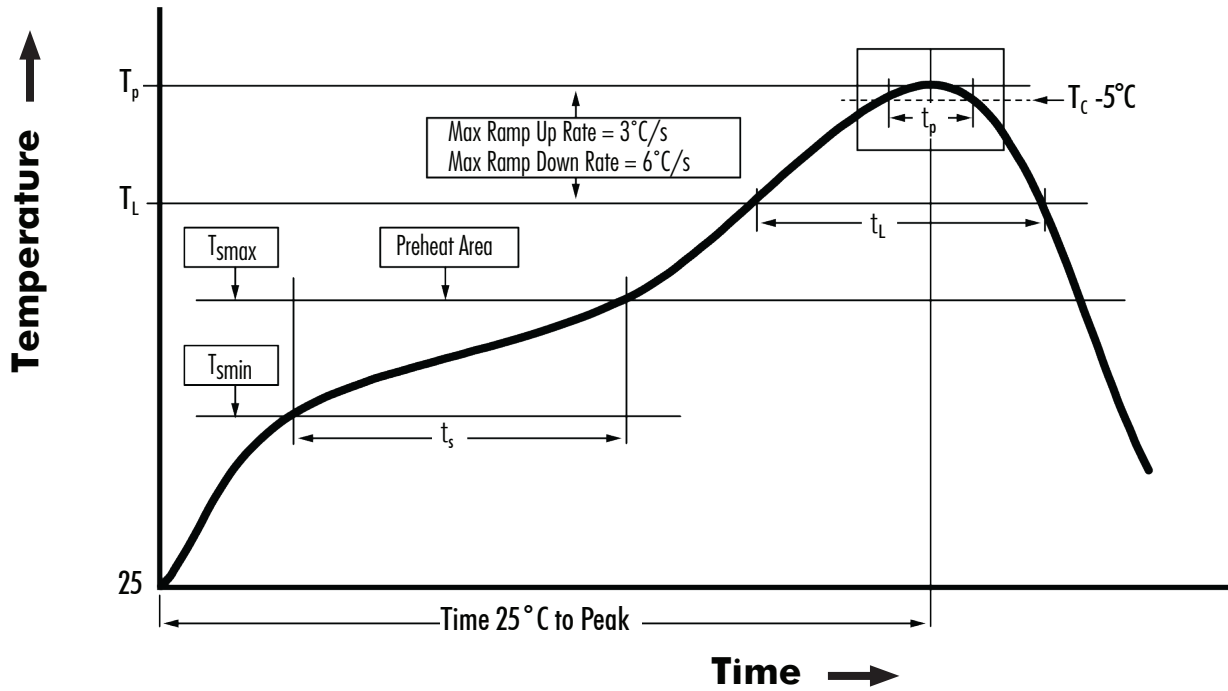
PCB PAD PATTERN
(REFERENCE ONLY)



Weight: 0.50 grams MAX



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



| T_{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 | 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.

