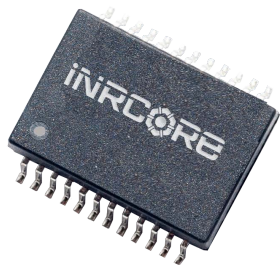


10GBASE-T PoE(++) TRANSFORMER MODULES

Ruggedized

10GB-6011(X)



- Compliant with IEEE 802.3 standards
- 120µH OCL with 9mA DC bias, at 100KHz 100mV
- Current Rating: 300mA Max per pair
- Operating temperature:
 - 10GB-6011: -40°C to +85°C
 - 10GB-6011X: -55°C to +125°C
- Storage temperature: -55°C to +125°C
- Terminal finish: Sn/Pb, (Pure tin for RoHS version)
- MSL: 3

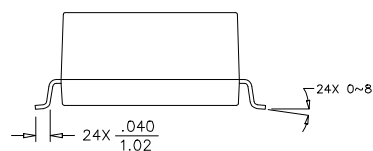
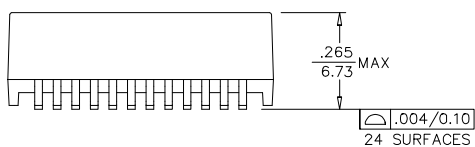
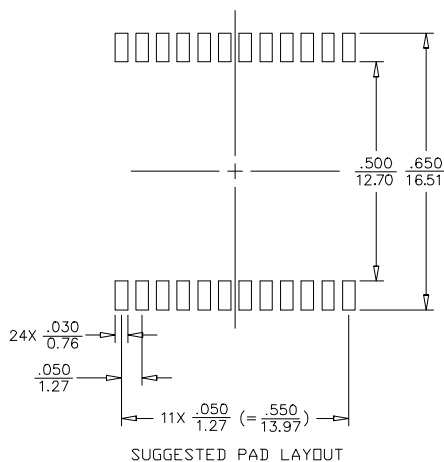
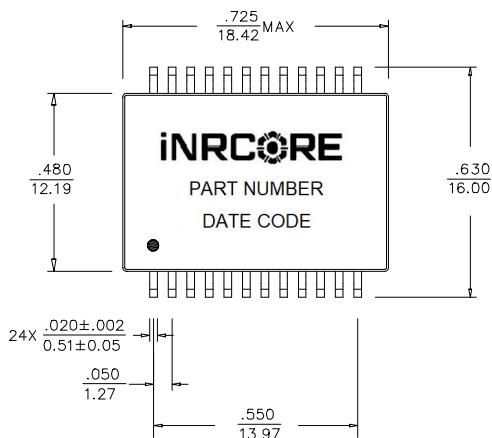
Electrical Specifications @ 25°C

| Part Number | Insertion Loss (dB Max) | | | Return Loss (dB Min) | | | | | Crosstalk (dB Min) | | | | DM to CM Rejection Ratio (dB Min) | | | Dielectric Withstanding Voltage @5s (Vrms MIN) |
|-------------|-------------------------|-----------|-------------|----------------------|---------|---------|---------|---------|--------------------|---------|---------|---------|-----------------------------------|---------|---------|--|
| | 100 KHz | 1-300 MHz | 400-500 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-6011 | -3.0 | -1.2 | -3.0 | -22 | -20 | -12 | -10 | -8 | -40 | -37 | -30 | -25 | -40 | -30 | -22 | 1500 |
| 10GB-6011X | -3.0 | -1.2 | -3.0 | -22 | -20 | -12 | -10 | -8 | -40 | -37 | -30 | -25 | -40 | -30 | -22 | 1500 |

Notes: 1. Add suffix "T" to part number for Tape & Reel package (i.e.: **10GB-6011XT**). 2. Add suffix NL for RoHS compliant part; i.e. (**10GB-6011XNL**).

Mechanical

10GB-6011(X)



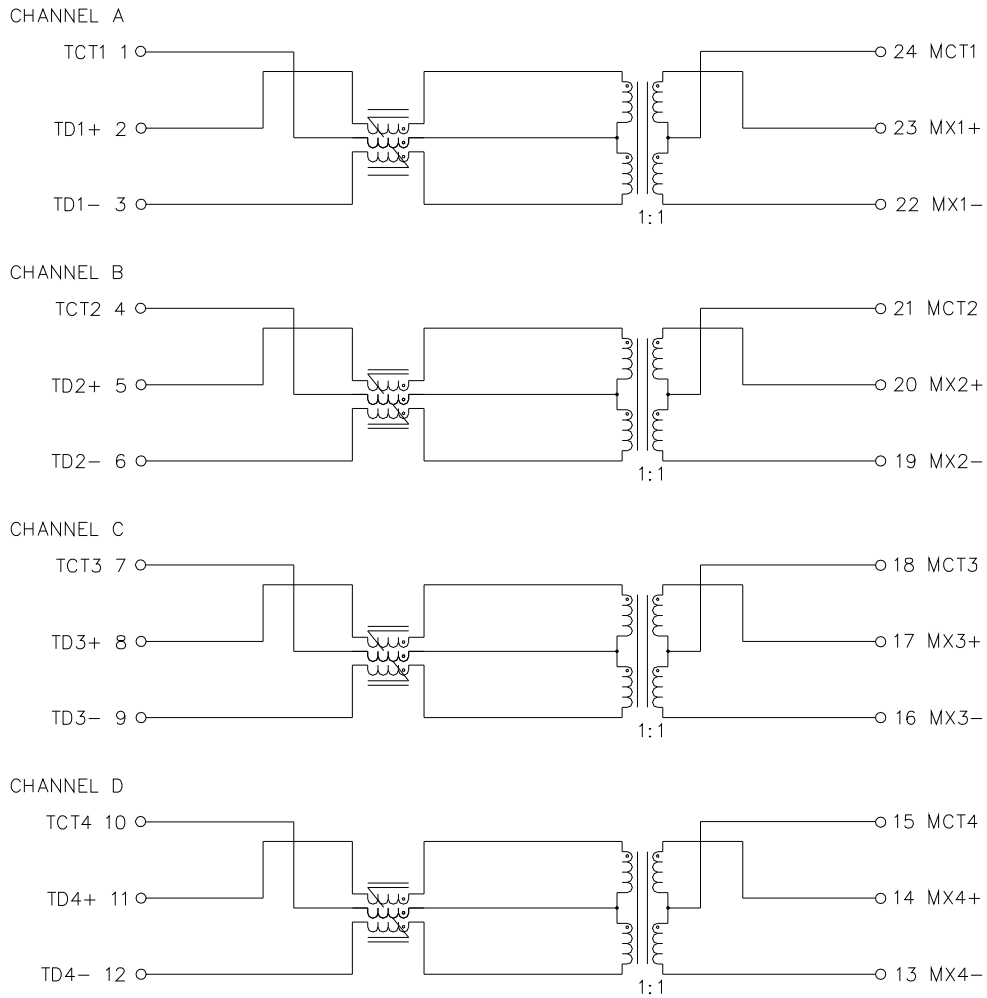
Weight.....3.6grams MAX
Tape & Reel.....250pcs/reel
Tube.....25pcs/tube

Dimensions: Inches
Unless otherwise specified,
all tolerances are ± 0.10

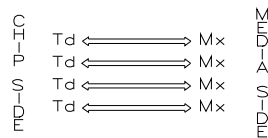


Schematic

10GB-6011(X)

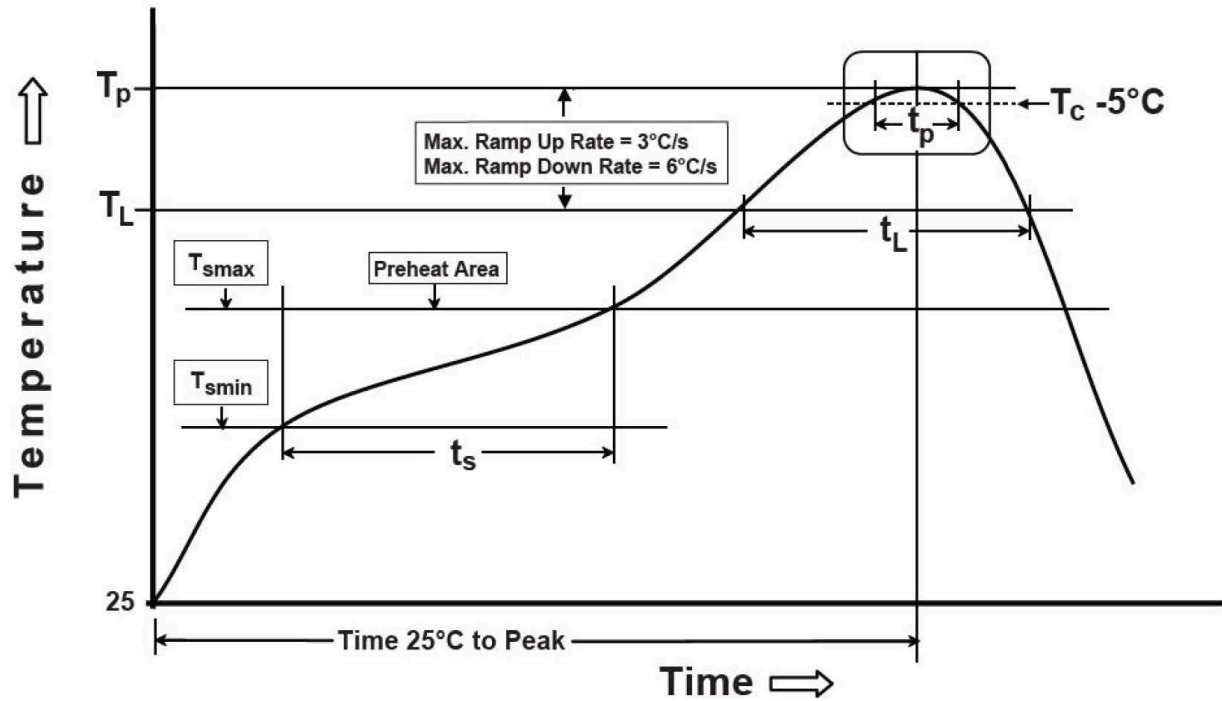


LEGEND



ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

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.