

# 10/100BASE-TX QUAD PORT TRANSFORMER MODULES

Ruggedized



- Compliant with IEEE 802.3u and ANSI X3.263 standards
- 350 $\mu$ H OCL with 8mA bias
- IC grade transfer-molded package withstands 235°C peak temperature profile
- Moisture Sensitivity Level: 3

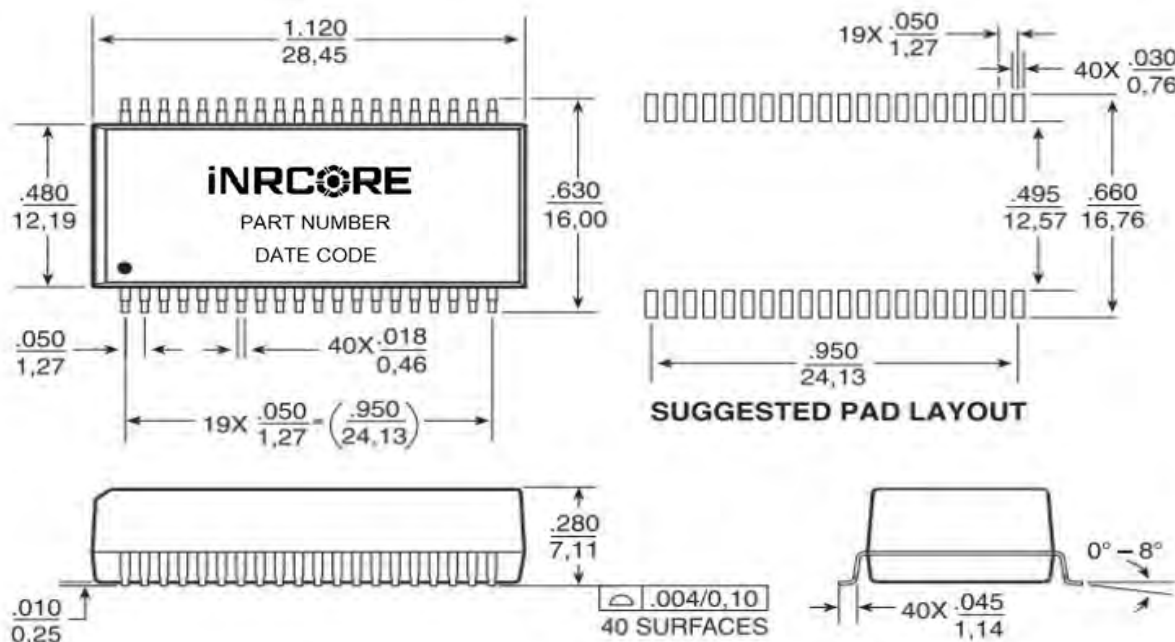
## Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +85 °C

| Part <sup>1,2,3</sup><br>Number | Insertion Loss<br>(dB MAX) | Return Loss<br>(dB MIN) |       |       |       | Crosstalk<br>(dB MAX) |       |       |       | Differential to Common Mode<br>Rejection<br>(dB MIN) |       |       |        |
|---------------------------------|----------------------------|-------------------------|-------|-------|-------|-----------------------|-------|-------|-------|------------------------------------------------------|-------|-------|--------|
|                                 | 0.1 - 100MHz               | 5MHz                    | 30MHz | 60MHz | 80MHz | 1MHz                  | 30MHz | 60MHz | 80MHz | 30MHz                                                | 60MHz | 80MHz | 200MHz |
| 100B-4011                       | -1.2                       | -16                     | -16   | -12   | -12   | -50                   | -43   | -37   | -33   | -42                                                  | -37   | -33   | -25    |

Notes: 1. Add suffix X for extended temp version (ie. **100B-4011X**); 2. Add suffix NL for RoHS compliant version (ie. **100B-4011NL**); 3. Add suffix T for tape and reel (ie. 100B-4011T).

## Mechanical

### 100B-4011X



Weight ..... 4.0 grams TYP  
Tape and Reel ..... 250/reel  
Tray ..... 15/tray

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

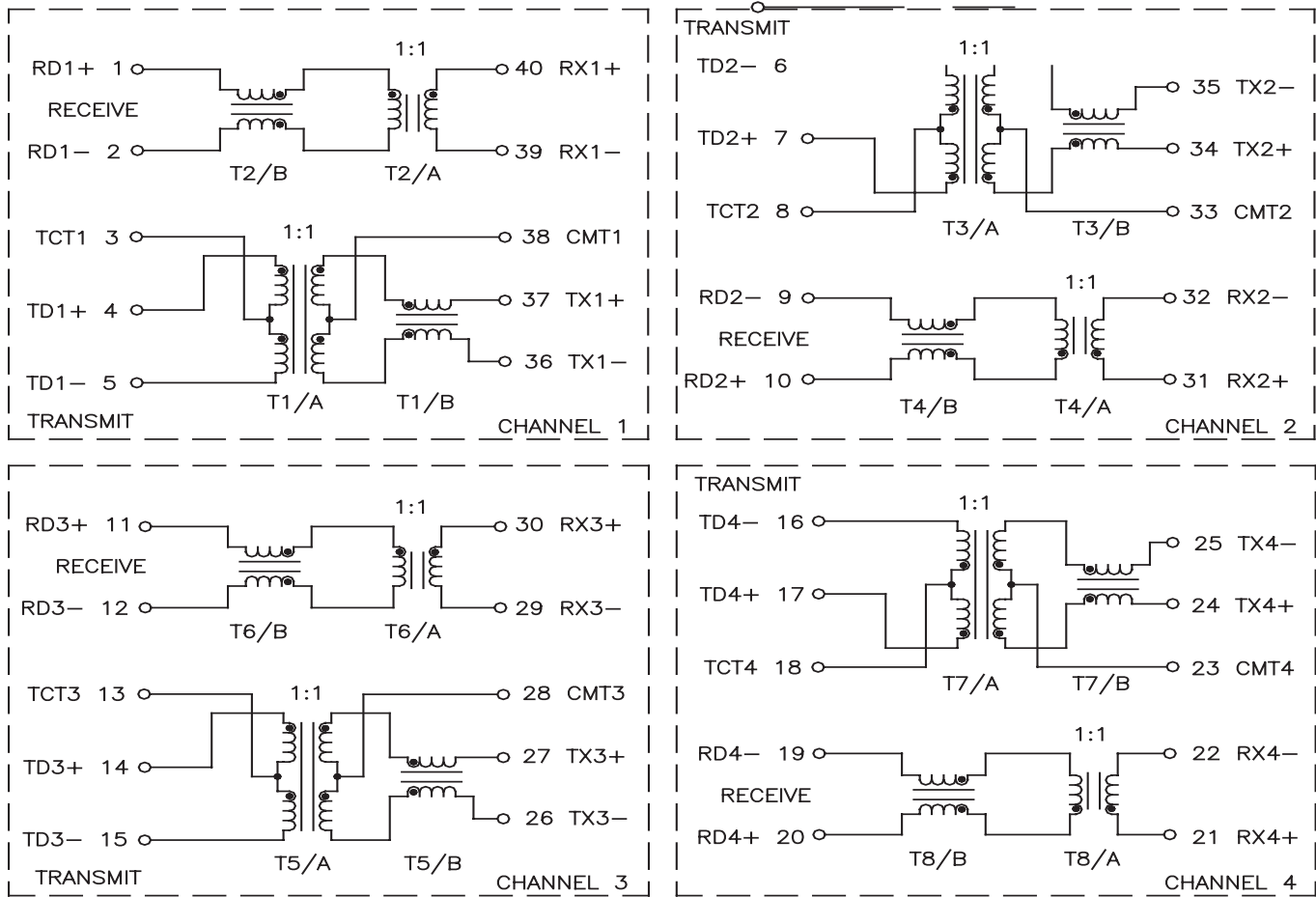


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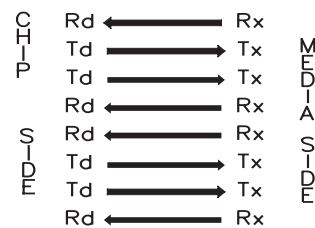
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## Electrical Schematic



## LEGEND



ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

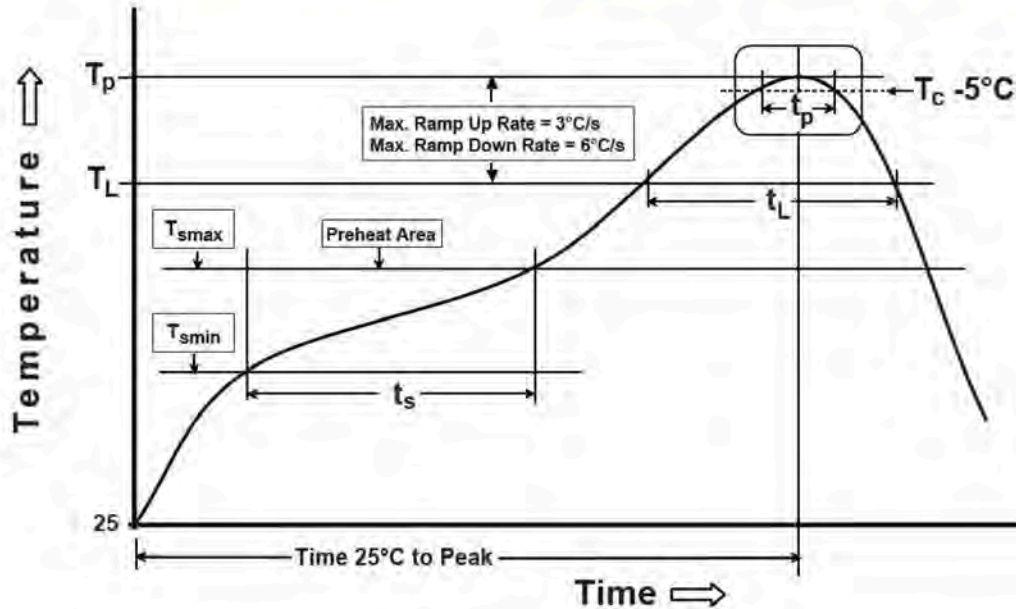


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**Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)**



| $T_{SMIN}$<br>(°C) | $T_{SMAX}$<br>(°C) | $T_L$<br>(°C) | $T_P$<br>(°C MAX) | $t_s$<br>(s) | $t_L$<br>(s) | $t_P$<br>(s MAX) | Ramp-up rate<br>( $T_L$ to $T_P$ ) | Ramp-down rate<br>( $T_P$ to $T_L$ ) | Time<br>25°C to peak temperature<br>(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.

## For More Information

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