

T3 Interface Transformers

For T3, DS3, E3 & STS-1 Interfaces

Complies with CCITT G.703

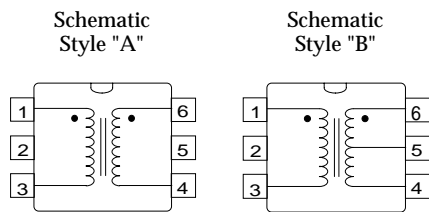
Matched to Leading I.C. Manufacturers

Isolation 1500V_{RMS} minimum

Rise Times Compatible with Standards

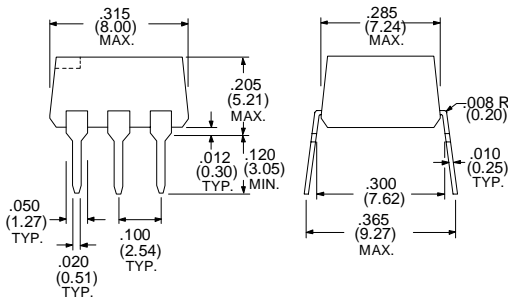
Available as SMD or Thru-hole package styles

Operating Temp. Range: -40°C to +85°C



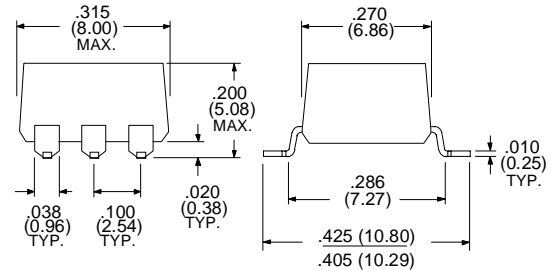
Dimensions in Inches (mm)

6-Pin DIP: T-13102 & T-13103



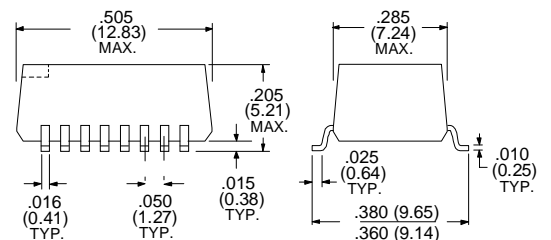
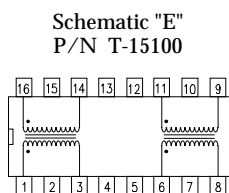
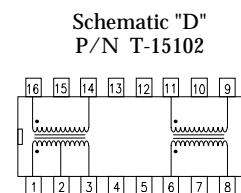
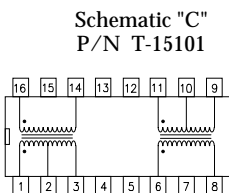
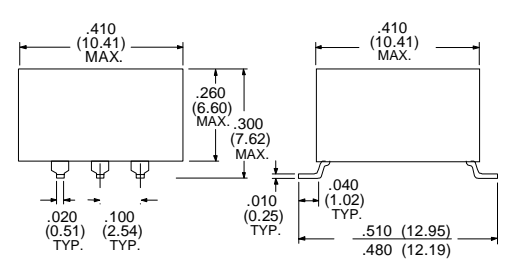
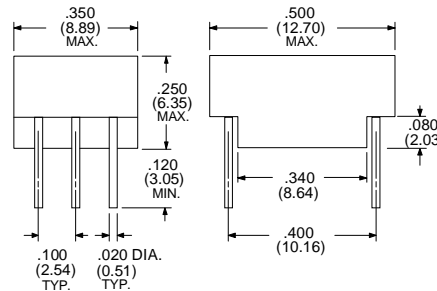
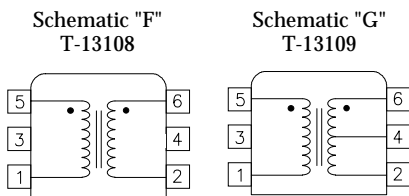
6-Pin SMD:
T-13100
T-13101
T-13104
& T-13105

SMD versions available on Tape & Reel



T6 : T-13108 & T-13109

G6 : T-13108G & T-13109G



I.C. / Transformer Cross Reference

| I.C. Manuf. Name | I.C. Part Number | Single Configuration - SMD | | Single Configuration - DIP | |
|------------------|-------------------------|----------------------------|---------|----------------------------|---------|
| | | Transmit | Receive | Transmit | Receive |
| AT&T | T7296 | T-13100 | -- | T-13103 | -- |
| Exar | XR-T7296 | T-13100 | -- | T-13103 | -- |
| Silicon Sys. | SSI 78P236 DS3 | T-13101 | T-13100 | T-13102 | T-13103 |
| Silicon Sys. | SSI 78P7200 DS3 | T-13101 | T-13100 | T-13102 | T-13103 |
| Silicon Sys. | SSI 78P2361 STS1 | T-13101 | T-13100 | T-13102 | T-13103 |
| Silicon Sys. | SSI 78P2362 E3 | T-13101 | T-13100 | T-13102 | T-13103 |
| Transwitch | MRT, TXC-02050 E3 | T-13101 | T-13100 | T-13102 | T-13103 |
| Transwitch | MRT, TXC-02020 DS3/STS1 | T-13100 | T-13100 | T-13103 | T-13103 |

Electrical Specifications at 25°C

| Part Number | Turns Ratio | OCL min. (μH) | L _L max. Sec. (μH) | Cw/w max. (pF) | Package | Schem. Style | Primary Pins |
|---------------------------|-------------|---------------|-------------------------------|----------------|---------------|--------------|--------------|
| T-13100 | 1:1 | 40 | 0.14 | 15 | 6 Pin SMD | A | 1-3 |
| T-13101 | 1:2CT | 19 | 0.14 | 15 | 6 Pin SMD | B | 1-3 |
| T-13102 | 1:2CT | 19 | 0.14 | 15 | 6 Pin Dip | B | 1-3 |
| T-13103 | 1:1 | 40 | 0.14 | 15 | 6 Pin Dip | A | 1-3 |
| T-13104 | 1:2CT | 40 | 0.14 | 15 | 6 Pin SMD | B | 1-3 |
| T-13105 | 1:1 | 45 | 0.12 | 13 | 6 Pin SMD | A | 1-3 |
| T-13107 | 1:1.73CT | 50 | 0.10 | 12 | 6 Pin Dip | B | 1-3 |
| T-13108(G) ⁽²⁾ | 1:1 | 40 | 0.10 | 5 | T6 Dip or SMD | F | 1-5 |
| T-13109(G) ⁽²⁾ | 1:2CT | 19 | 0.06 | 10 | T6 Dip or SMD | G | 1-5 |
| T-15100 | 1:1&1:1 | 40 | 0.14 | 15 | 16-Pin SMD | E | 1-3/9-11 |
| T-15101 | 1:2CT&1:2CT | 19 | 0.14 | 15 | 16-Pin SMD | C | 14-16/6-8 |
| T-15102 | 1:2CT&1:1 | 19/40 | 0.14 | 15 | 16-Pin SMD | D | 14-16/6-8 |

1. The 3 dB Bandwidth is 200kHz - 280MHz typical, tested in a 75 ohm system.

2. Reinforced Insulation (3000 V_{RMS})