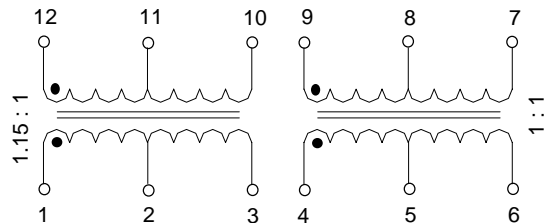


# T1/CEPT/ISDN-PR1 TRANSFORMER S559-6400-00

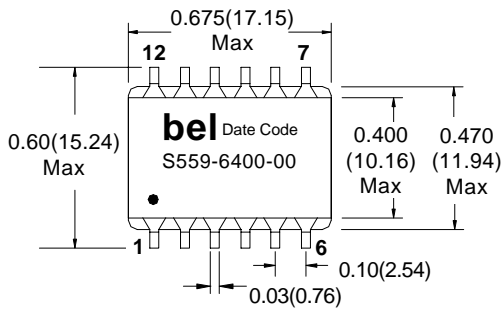
Bel offers a dual, T1, surface mount transformer packaged to provide both transmit and receive transformers. This design is easily customized for other leading transceiver chips by adjusting the turns ratio.

- \* Dielectric Strength 1500 VAC.
- \* Temperature Range is -40°C to 85°C.

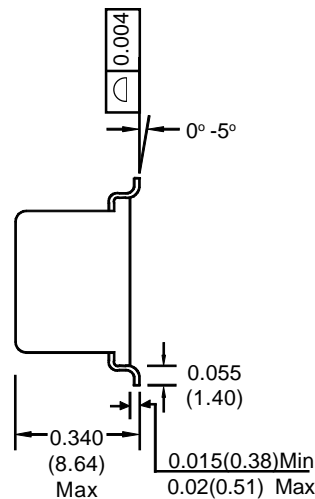
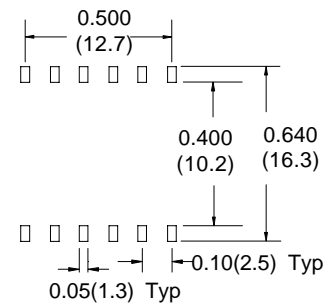
## SCHEMATIC



## MECHANICALS



## SUGGESTED PAD LAYOUT



## ELECTRICALS @ 25° C

| Part Number  | Turns Ratio +/- 5% |                  |
|--------------|--------------------|------------------|
|              | Pins (10-12):(1-3) | Pins (4-6):(7-9) |
| S559-6400-00 | 1CT:1.15CT         | 1CT:1CT          |

All dimensions are in inches(mm).  
Dimension Tolerance is +/-0.01(0.25) unless otherwise specified.

| Part Number  | Primary Inductance OCL (mH) Min | Leakage Inductance L <sub>L</sub> (μH) Max | Interwinding Capacitance (pF) Max                                | DCR (ohms) Max |            |            |              | Dielectric Strength (VAC) |
|--------------|---------------------------------|--|--|----------------|------------|------------|--------------|---------------------------|
|              | Pins (4-6) and Pins (10-12)     | Pins (4-6) and Pins (10-12)                | Pins (1,2,3) to Pins (10,11,12) and Pins (4,5,6) to Pins (7,8,9) | Pins (1-3)     | Pins (4-6) | Pins (7-9) | Pins (10-12) |                           |
| S559-6400-00 | 1.5                             | 0.8  | 60   | 1.1            | 1.0        | 1.0        | 1.0          | 1500                      |

Dielectric Strength is measured Pins (1,2,3) to Pins (10,11,12) and Pins (4,5,6) to Pins (7,8,9).  
Primary Inductance, Leakage Inductance, and Interwinding Capacitance are measured at 100KHz, 0.02VAC.

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