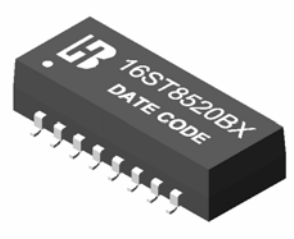
**Bothhand USA email:sales@bothhandusa.com http://www.bothhandusa.com**

# 10/100 BASE-T TRANSFORMER

# P/N:16ST8520BX DATA SHEET

## Feature




- Designed for 10/100 MB/s transmission over UTP-5 cable.
- Tested & qualified for use with national semiconductor's DP83840 Ethernet 10/100 PHY chip.
- Cable interface for isolation and low common mode emissions.
- 16-PIN SMD package for economic cost.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +125°C.

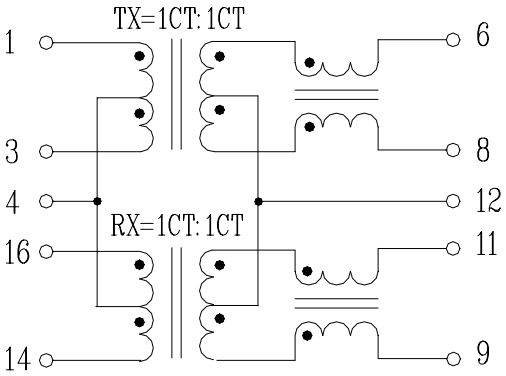
**Electrical Specifications @ 25°C**

| Part Number | Turns Ratio (±5%) TX/ RX | OCL (uH Min) @ 100KHz/0.1V with 8mA/DC Bias | L.L (uH Max) | $C_{W/W}$ (pF Max) | PRI DCR (Ω Max) | Hi-POT (Vrms) |
|---|---|---|---|---|---|---|
| 16ST8520BX | 1CT:1CT | 350 | 0.6 | 50 | 0.9 | 1500 |

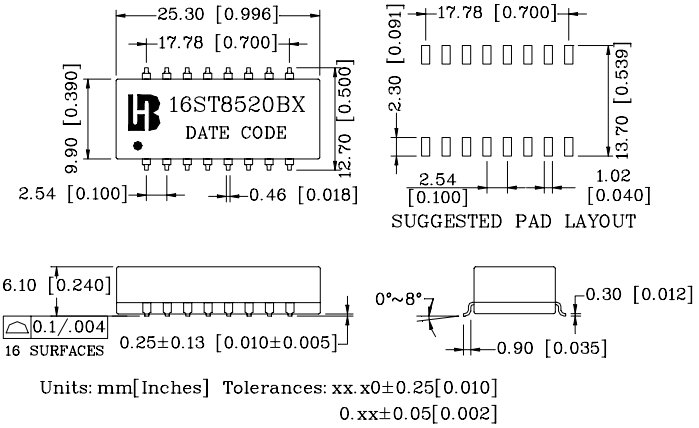
**Continue**

| Part Number | Insertion Loss (dB Max) | Return Loss (dB Min) | | | | Cross talk (dB Min) | | DCMR (dB Min) TX/RX | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0.3-100MHz | 0.5-30MHz | 40MHz | 50MHz | 60-80MHz | 0.3-60MHz | 60-100MHz | 30MHz | 60MHz | 100MHz |
| 16ST8520BX | -1.1 | -16 | -15 | -13 | -11 | -45 | -35 | -40 | -30 | -25 |

## Schematic




## Mechanical




**462 Boston St - Topsfield, MA 01983 - Phone: 978-887-8050 - Fax: 978-887-5434**