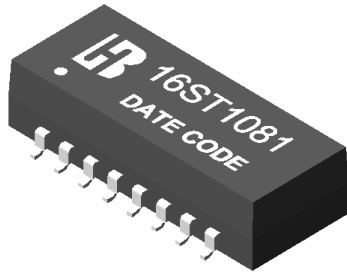




10/100BASE-T SINGLE PORT TRANSFORMER MODULES

P/N: 16ST1081 DATA SHEET

Feature



- Meets all IEEE802.3 and ANSI X3.263 standards including 350uH OCL with 8mA Bias.
- Designed for use with transceivers from AMD , KENDIN Semiconductor , and Quality Semiconductor.
- IC grade transfer-molded package suitable for reflow soldering temperatures up to 235 .
- Patented interlock base construction for high reliability.
- Operating temperature range:0 to +70 .
- Storage temperature range:-25 to +125 .

Electrical Specifications @ 25°C

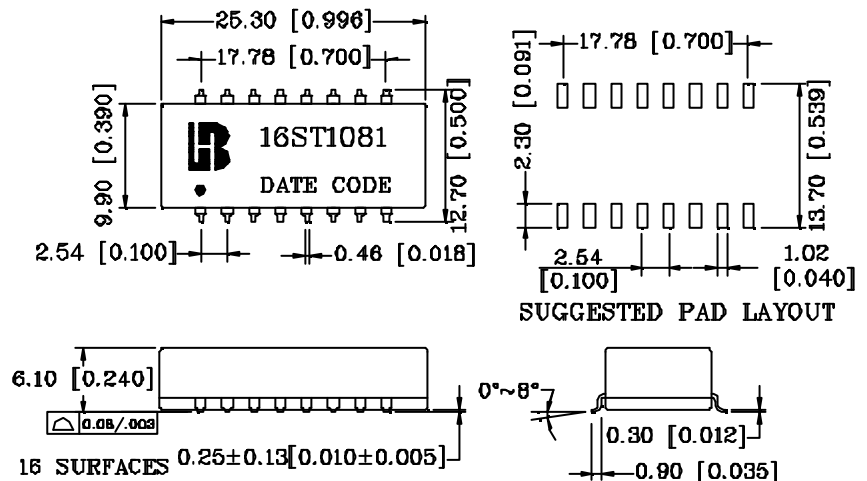
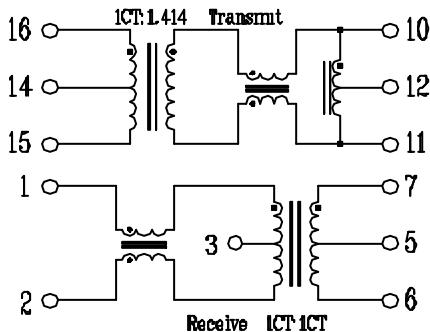
| Part Number | Turns Ratio (±5%) | | OCL(uH Min) @100KHz/0.1Vrms with 8mA/DC Bias | L.L (uH Max) | | C _{www} (pF Max) | HI-POT (Vrms) |
|-------------|-------------------|-----------|--|-------------------|-----------------------|------------------------------|------------------|
| | RX | TX | | Pin7-6(1-2 short) | Pin10-11(16-15 short) | | |
| 16ST1081 | 1CT:1CT | 1CT:1.414 | 350 | 0.5 | 0.8 | 28 | 1500 |

Continue

| Part Number | Insertion Loss RX/TX(dB Max) | Return Loss RX/TX(dB Min) | | | Cross talk (dB Min) | |
|-------------|---------------------------------|------------------------------|---------|----------|------------------------|-----------|
| | 0.3-100 MHz | 30MHz | 60MHz | 80MHz | 0.3-60MHz | 60-100MHz |
| 16ST1081 | -1.15/-2.0 | -18/-16 | -12/-10 | -11/-9.0 | -45 | -35 |

Schematic

Mechanical



Units: mm [Inches] Tolerances: xx.x0±0.25 [0.010]
0.xx±0.05 [0.002]