

# 10/100 BASE-T ETHERNET ISOLATION TRANSFORMER

## P/N:16ST6121 DATA SHEET

### A. GENERAL SPECIFICATIONS:

1. 16 PIN, SMD PACKAGE TO MEET 10/100 MB/S T SPECIFICATION.
2. LOW LEAKAGE INDUCTANCE AND WINDING CAPACITANCES FOR FAST RISE TIME.
3. HIGH ISOLATION VOLTAGES TO COMPLY WITH INTERNATIONAL SAFETY REQUIREMENTS FOR LAN.
4. OPERATING TEMPANGE: 0°C TO 70°C.
5. STORAGE TEMP RANG: -25°C TO + 125°C.

### B. ELECTRICAL SPRCIFICATIONS: (25°C)

1. TURN RATIOS: 1:1CT (RX 1-2:16-15) & 2CT:1 (TX 6-8: 10-9)
2. PRIMARY OCL INDUCTANCE (Lp) AT 0.1 Vrms, 100 KHz, 8mA DC:350 uH Min
3. CW/W: 10pF Max
4. LEAKAGE INDUCTANCE (L.L): 0.2uH Max
5. DCR (OHM MAX): 1.7 (14-16)
6. HI-POT ISOLATION: 1500Vrms Min
7. GROUP DELAY CHANGE: 2.5nS Max
8. INSERTION LOSS (1-100MHz): Transmit: -1.0dB Max, Receive: -1.0dB Max
9. RETURN LOSS (1-80MHz): TX=-15dB Min, RX=-11dB Min
10. CROSSTALK (dB Min): -35dB AT 1-100 MHz

### C. MECHANICAL DRAWING & SCHEMATIC:

