

10/100 BASE-T SINGLEPORT TRANSFORMER MODULES

P/N:16ST1043 DATA SHEET

A. GENERAL SPECIFICATIONS:

1. DESIGNED FOR 100MB/S AND 150MB/S TRNOMISSION OVER UTP-5 AND STP CABLE.
2. 155 ATM, 100 BASE-TX AND TP-FODI LPLPLICATIONS.
3. CABLE INTERFACE FOR ISOLATION AND LOW COMMON MODE EMISSIONS.
4. FULLY INTEGRATED MODULES FOR MULTIPOINT CONCENTRATORS AND ADAPTER CARD APPLICATIONS.
5. 16-PIN SMD PACKAGE, PICK AND PLACE COMPATIBLE.
6. OPERATING TEMPERATURE RANGE: 0°C TO 70°C
7. STORGE TEMPERATURE RANGE: - 25° TO +125°C

B. ELECTRICAL SPECIFICATIONS: (@ 25°C)

1. TURNS RATIO: RX = 1 CT: 1CT, TX = 1.25 CT: 1CT±5%
2. PRIMARY OCL INDUCTANCE: 350 uH MIN@ 100 KHz /100 mVrms, 8.0 mA/DC
3. INTERWINDING CPACITANCE CW/W: 28 pF MAX
4. LEAKAGE INDUCTANCE (RX): 0.6uH MAX @100KHz
(TX) : 1.0 uH MAX @100KHz
5. HI-POT ISOLATION : 1500 Vrms MIN @ 0.5mA
6. INSERTION LOSS (1~100 MHz): -1.1dB MAX
7. RISE TIME (10%~90%) : 2.5 nS TYP.
8. RETURN LOSS (0.1~30 MHz) : -16 dB MIN
(30~60 MHz) : -12 dB MIN
(60~80 MHz) : -10 dB MIN
9. CROSS TALK (0.1~30 MHz) : -45 dB MIN
(30~60 MHz) : -40 dB MIN
(60~100 MHz) : -34dB MIN

C. DIMENSIONS & SCHEMATIC & MARKING (UNIT mm):

