

# 10 BASE T ETHERNET ISOLATION TRANSFORMER

## P/N: TH12S DATA SHEET

### A. GENERAL SPECIFICATIONS:

1. 16 PIN, SMD PACKAGE, PICK & PLACE COMPATIBLE.
2. LOW LEAKAGE INDUCTANCE AND WINDING CAPACITANCES.
3. HIGH ISOLATION VOLTAGES TO COMPLY WITH INTERNATIONAL SAFETY REQUIREMENTS FOR LANS.
4. RX WITHOUT COMMON CHOKE BUT TX WITH COMMON CHOKE.
5. OPERATING TEMP RANGE:  $0^{\circ}\text{C}$  TO  $+70^{\circ}\text{C}$ .
6. STORAGE TEMP RANGE:  $-25^{\circ}\text{C}$  TO  $+125^{\circ}\text{C}$ .

### B. ELECTRICAL SPECIFICATIONS

1. TURN RATIO (AT 100 KHz): 1:1 (PRI. TO SEC.)
2. PRI. INDUCTANCE (AT 100 KHz, 0.1V):  $80\mu\text{H}$  Min.
3. PRI/SEC C w/w (pF Max.): 10
4. PRI/SEC LEAKAGE INDUCTANCE ( $\mu\text{H}$  Max): 0.30
5. PRIMARY DCR (OHM Max.): 0.30 FOR (1-3), (6-8) & (9-11, RX)  
0.8 FOR (14-16, TX).
6. HI-POT TEST ( $V_{\text{rms}}$ ): 1500 Min. (AT 60KHz, 1S Min)

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

