

# 10 BASE-T SMD ETHERNET TRANSFORMER

## P/N:TS6121C DATA SHEET

### A. GENERAL SPECIFICATIONS:

1. 16 PIN SMD PACKAGE TO MEET 10/100 MB 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 TEMPERATURE RANGE: 0°C TO +70°C
5. STORAGE TEMP RANG: -25°C TO +125°C

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

1. TURN RATIOS TX&RX (1-3): (14-16)=1CT: 1CT, (6-8):(9-11)=1CT: 1CT
2. PRIMARY INDUCTANCE (Lp): 350uH Min@ 100KHz/ 0.1Vrms, 8mA DC
3. LEAKAGE INDUCTANCE (L.L): (1-3-2 short 16-15-14)=0.6uH Max (6-8-7 short 11-10-9)=0.60uH Max
4. PRIMARY CAPACITANCE (CW/W): 25pF Max
5. DCR (1-3) =0.7 OHM, (6-8)=0.5 OHM, (11-9)=1.1 OHM
6. INSERTION LOSS (0.1MHz-100MHz): 1.1 dB MAX
7. RETURN LOSS (dB Min):
 

30MHz	60MHz	80MHz
-20	-14	-12
8. DIFFERENTIAL TO COMMON MODE REJECTION (dB MIN):
 

30MHz	60MHz	100MHz
-42	-37	-33
9. CROSSTALK (dB MIN):
 

30MHz	60MHz	100MHz
-45	-40	-35
10. HI-POT (Vrms): 1500
11. INSERTION LOSS (1MHz~100MHz): -1.15dB Max

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

