

**40 PIN SMD ETHERNET 10/100 BASE QUAD PORT TRANSFORMER**  
**PN:40ST1042-1 DATA SHEET**

**A.GENERAL SPECIFICATIONS**

- 1.IEEE 802.3 ETHERNET COMPATIBLE, 100 BASE-TX
- 2.SURFACE MOUNTABLE
- 3.DESIGN FOR MULTIPORT REPEATER AND ETHERNET SWITCHING HUB APPLICATION
- 4.CUSTOMER DESIGNS AVAILABLE FOR SPECIFIC APPLICATION

**B.ELECTRICAL SPECIFICATIONS @ 25°C**

- 1.ISOLATION HI-POT: 1500 Vrms (PRI. /SEC.)
- 2.INSULATION RESISTANCE: 10,000 MOHM.
- 3.TURN RATIO (±5%): TX=2CT: 1CT, RX=1:1
- 4.PRI. /SEC. Cw/w (pF TYP): 30
- 5.LEAKAGE INDUCTANCE: TX: 1.3 uH, RX: 0.5 uH Max
- 6.PRI.DCR (OHM Max): TX=0.9, RX=0.9
- 7.CROSSTALKS (dB Min): -38 AT 1MHz-100 MHz
- 8.CMRR (dBMin): -40 AT 1MHz-100 MHz
- 9.OCL (uH,Min): 350 at 8mA/dc FORM 0-7 C
- 10.RETURN LOSS: 0.5-30 40 50 60-80 (MHz)  
 -18 -15.5 -13.6 -12 (dB Min)
- 11.INSERTION LOSS: -1.1dB Max @ 1-100MHz

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

