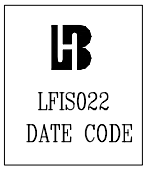
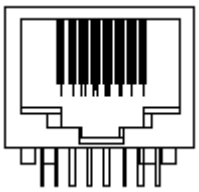
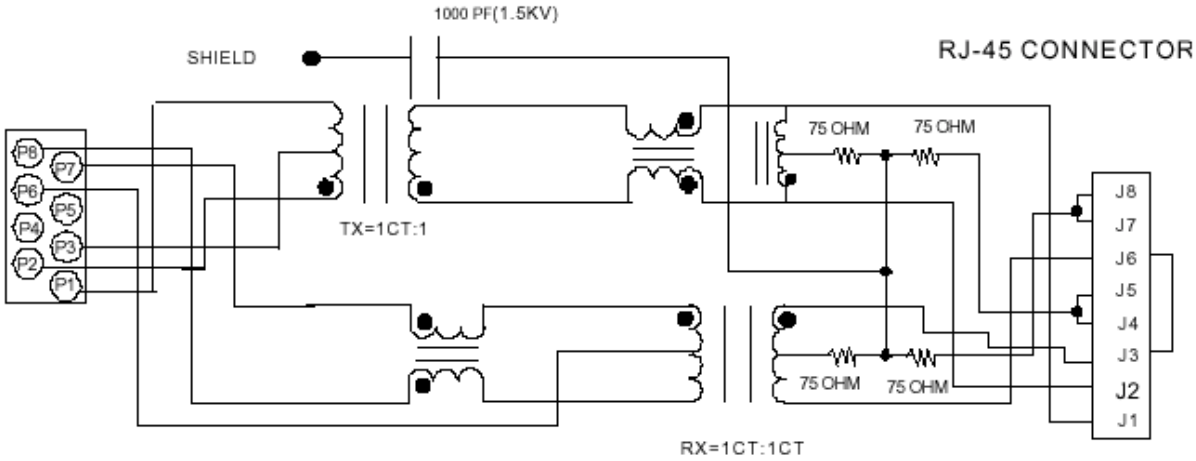
10/100 BASE-TX "LAN-MATE"

P/N: LU1S516 DATA SHEET

A. GENERAL SPECIFICATIONS:

1. RJ-45 CONNECTOR INTEGRATED WITH X'FMER /IMPENDANCE RESISTOR/HIGH VOLTAGE CAPACITOR.
2. SIZE SAME AS RJ-45 CONNECTOR TO SAVE PCB BOARD SPACE.
3. REDUCE EMI RADIATION, IMPROVE EMI PERFORMANCE.
4. DESIGN FOR 100 BASE TRANSMISSION OVER UTP-5 CABLE.
5. OPERATING TEMP RANGE: 0 °C TO 70 °C.
6. STORAGE TEMP RANGE: -25°C TO + 125°C

B.ELECTRICAL SPECIFICATIONS: (25°C)

1. TURN RATIOS: RX =1CT: 1CT (±5%) & TX=1CT: 1CT
2. PRIMARY OCL INDUCTANCE (MIN) AT 100 KHz/ 0.1Vrms, 8.0mA DC: 350 uH
3. CW/W (pF MAX.): 28
4. LEAKAGE INDUCTANCE (uH Max)AT 1 MHz: RX=0.4 uH MAX, TX=0.4 uH MAX
5. HI-POT ISOLATION (Vrms Min): 1500 (100% TEST):
6. DCR (Ω MAX): TD=0.7,RD=0.5,RX=1.1
7. INSERTION LOSS 0.1 TO 100 MHz (dB Max.) –1.15
8. RISE TIME: (ns TYP) (10-90%): 2.5ns.
9. RETURN LOSS (dB MIN): FREQUENCY 0.1-60MHz 60-80MHz
   RETURN LOSS -14 -12
10. DIFFERENTIAL TO COMMON MODE REJECTION (dB MIN): -30 (FREQUENCY 1-100MHz)
11. CROSS TALK (dB MIN): -35 (FREQUENCY: 1-80 MHz)

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