

10/100 BASE-TX “LAN-MATE”

P/N: LU1S515 DATA SHEET

A. GENERAL SPECIFICATIONS

1. RJ-45 CONNECTOR INTEGRATED WITH X'FMER /IMPEDANCE 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.): 350 uH AT 0.1Vrms, 100 KHz , 8.0mA DC
3. CW/W (pF MAX.): 28
4. LEAKAGE INDUCTANCE (uH Max) AT 1 MHz: RX=0.4uH MAX, TX=0.4 uH MAX
5. HI-POT ISOLATION (Vrms Min): 1500 V (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
-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.SCHEMATIC & MARKING:

