

10/100 BASE-TX “LAN-MATE”

P/N: LU4S042 DATA SHEET

A. GENERAL SPECIFICATIONS:

1. RJ-45 CONNECTOR INTEGRATED WITH X'FMR /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=2CT: 1CT
2. PRIMARY OCL INDUCTANCE (MIN.) AT 0.2 Vrms, 100 KHz , 8.0mA :350 uH
3. CW/W (pF MAX.): 30 pF
4. LEAKAGE INDUCTANCE(uH Max)AT 1 MHz: RX=0.5 uH MAX, TX=1.3 uH MAX
5. HI-POT ISOLATION (Vrms Min): 1500 V (100% TEST):
6. DCR (Ω MAX): TD=1.3,RD=0.5,RX=1.1
7. INSERTION LOSS 0.1 TO 100 MHz (dB MAX.) -1.1
8. RISE TIME: (ns TYP) (10-90%): 2.5ns.
9. RETURN LOSS (dB MIN):

FREQUENCY	0.1-60MHz	60-100MHz
RETURN LOSS	-14	-10
10. DIFFERENTIAL TO COMMON MODE REJECTION (dB MIN): -30(FREQUENCY 1-00MHz)
11. CROSS TALK (dB MIN): -35 (FREQUENCY: 1-80 MHz)

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

