

10/100 BASE-TX “LAN-MATE”

P/N: LU3S041 DATA SHEET

A. CHARACTERISTICS DESCRIPTION:

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 ($\pm 5\%$) & TX=1CT: 1CT
2. PRIMARY OCL INDUCTANCE (MIN.) AT 0.1 Vrms, 100 KHz , 8.0mA: 350 μ H
3. CW/W (pF MAX.): 28
4. LEAKAGE INDUCTANCE (μ H Max) AT 1 MHz: RX=0.5 μ H MAX, TX=0.8 μ H 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.) -1.1
8. RISE TIME: (ns TYP) (10-90%): 2.5ns.
9. RETURN LOSS (dB Min):

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

C.SCHEMATIC&DIMENSIONS&MARKING (Unit mm):

