

10/100 BASE-TX “LAN-MATE”

P/N: LU4S041B DATA SHEET

A.CHARACTERISTICS DESCRIPTIONS:

- 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 0.1 Vrms, 100 KHz , 8.0mA/DC : 350 uH
- 3.C W/W (pF Max.): 28 pF
- 4.LEAKAGE INDUCTANCE (uH Max) AT 1 MHz: RX=0.5 uH Max, TX=0.8 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 100MHz (dB Max.) -1.1
- 8.RISE TIME: (ns TYP) (10-90%): 2.5ns.
- 9.RETURN LOSS (dB Min): FREQUENCY 0.1-60MHz 60-100MHz
-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. MECHANICAL DRAWING & SCHEMATIC:

