

10/100 BASE-TX “LAN-MATE”

P/N: LU1S114 DATA SHEET

APPLY TO LXT974/10040,TMI 6102,INTEL 82557(8), VT86C100A, MTD971(2F)
DIVICOM9101F, F3 6610(05), MX98702/04/13/41,W89C840, DEC,MIL, NS,
RTL8139/29,VIA 86C100A, LUCENT 6612



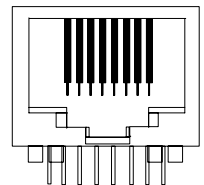
A.CHARACTERISTICS DESCRIPTION:

- 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:1.414CT
- 2.PRIMARY OCL INDUCTANCE(MIN.) AT 0.2 Vrms,100 Khz ,8.0mA :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 125 MHz (dB MAX.) -1.3
- 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 1-100MHz)
- 11.CROSS TALK (dB MIN): -35 (FREQUENCY: 1-80 MHz)

C:MECHANICAL DRAWING & SCHEMATIC:



LU1S114

