

10/100 BASE-TX "LAN-MATE"

P/N: LU1S025 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. GENERAL SPECIFICATIONS:

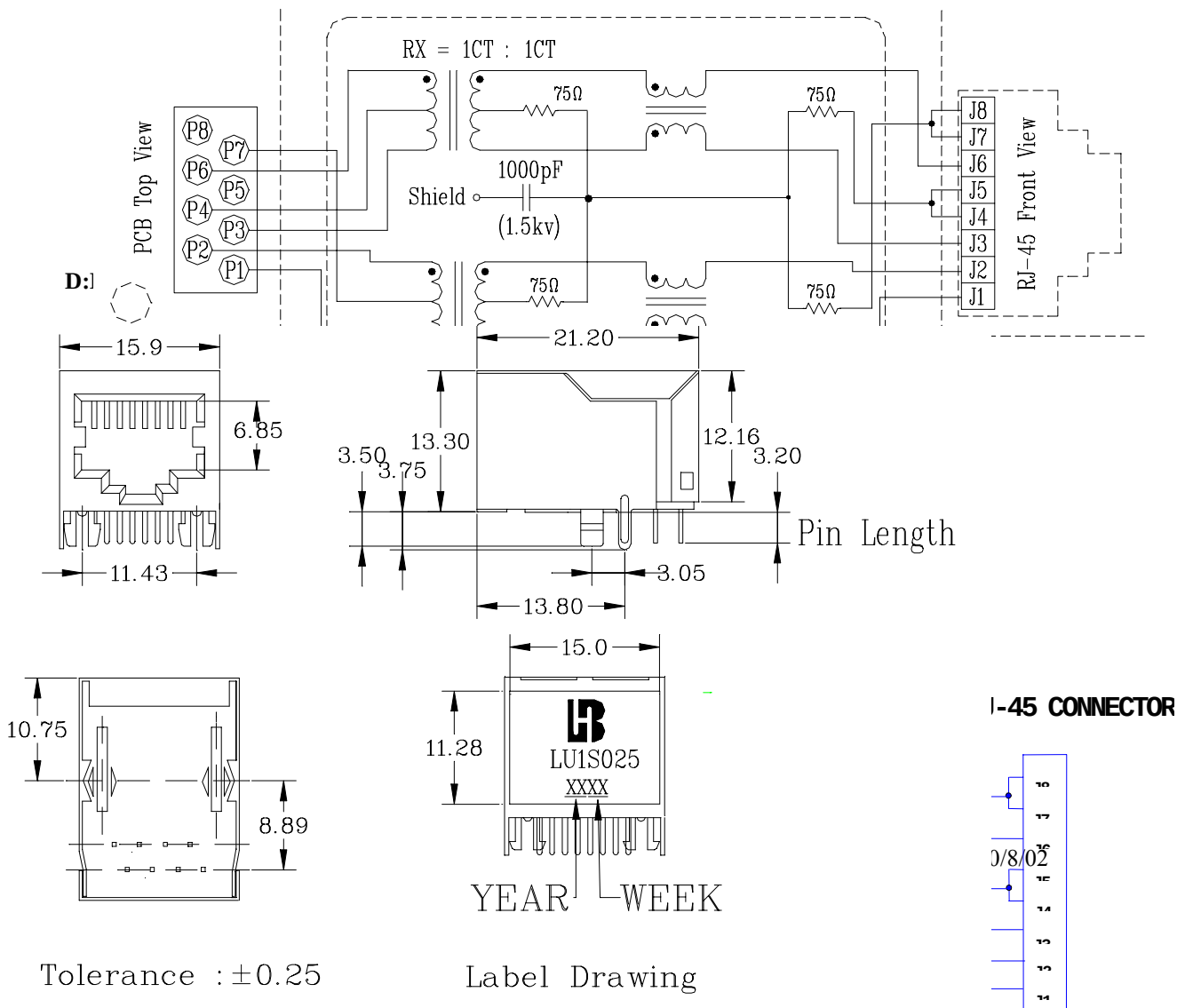
- 1.RJ-45 CONNECTOR INTEGRATED WITH X'FMR /IMPENDANCE RESISTOR/HIGH VOLTAGE CAPACITOR.
- 2.SIZE SAME AS RJ-45 CONNECTOR TO SAVE PCB BOARD SPACE.
- 3.REDUCE EMI RADIATION, IMPROVE EMI PERFORMANCE.
- 4.DESIGN FOR 100 BASE TRANSMISSION OVER UTP-5 CABLE.
- 5.OPERATING TEMP RANGE: 0 °C TO 70 °C.
- 6.STORAGE TEMP RANGE: -25°C TO + 125°C

B. ELECTRICAL SPECIFICATIONS: (25°C)

1. ISOLATION HI-POT: 1500Vrms/0.5mA 1Sec.
2. TURN RATIO ($\pm 5\%$): RX=1CT: 1CT, TX=1CT: 1.25CT
3. OCL: 350 μ H Min at 100KHz/0.1V 8mA DC Bias
4. CW/W: 25 pF Max
5. LEAKAGE INDUCTANCE (1MHz): 0.4 μ H Max
- 6.INSERTION LOSS (0.1 TO 100 MHz): -1.15 dB MAX
- 7.RISE TIME: 2.5nS. TYP
- 8.RETURN LOSS (dB MIN): 5-30MHz 30-60MHz 60-80MHz
-16 -12 -10
- 9.CMRR (0.1-100MHz):-37dB MIN
- 10.CROSS TALK (0.1 TO 100KHz): -38dB MIN

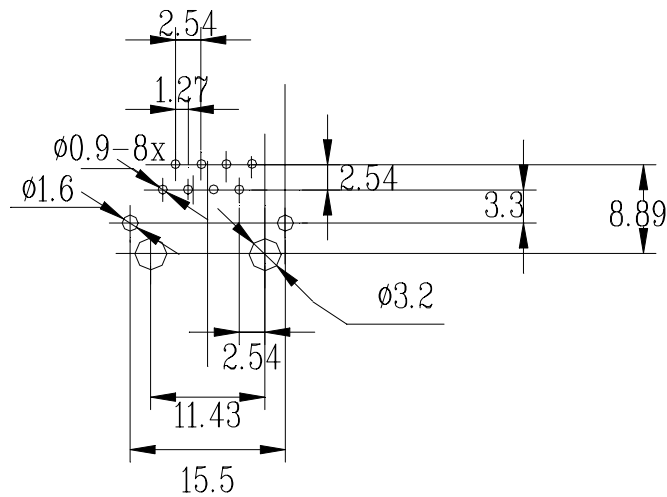
C. SCHEMATIC:

Block Circuit 1 x 1set in LU1S114



1. Plastic Material : PBT 15% Glass Filled (UL 94V-0) , Black Housing
2. Metal Shield : Brass C2680-H, 20u Nickle Plated, t=0.25mm
3. Spring Wire : 0.45mm Dia. Phosphor bronze with 6u gold plated .
4. Solder Pin : 0.4*0.4mm ,Phosphor bronze with Solder plated .
5. Durability : 300 Mating cycles Min .

E. PCB LAYOUT MOUNTING HOLE (Top View)



Unit: mm

Tolerance : ± 0.25