

**1X4 RJ45 CONNECTOR MODULE WITH INTEGRATED 10/100 BASE-TX MAGNETICS**

P/N: LU4S049

Page : 1/2

A. General Specifications

1. RJ-45 connector integrated with X' FMER /Impedance 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 temperature range: 0 °C to +70 °C.

B. Electrical Specifications @25° C :

1. Turns Ratio: RX = 1CT:1CT & TX = 1CT:1CT
2. Primary OCL inductance: 350 μ H Min at 100KHz/0.1V with 8mA DC Bias
3. Cw/w: 28pF Max
4. Leakage Inductance(TX&RX) : 0.4 μ H MAX
5. Insertion Loss (0.3 TO 100MHz): -1.15 dB MAX
6. Return Loss (dB MIN):

30MHz	40MHz	50MHz	60MHz	80MHz
-16	-14	-13.5	-13	-10
7. Cross talk (dB MIN): -35 (Frequency: 0.3-80 MHz)
8. Differential to Common Mode Rejection(dB MIN): -30 (Frequency 0.3-100MHz)
9. Rise Time (10-90%): 2.5nS.Typ
10. HI-POT Isolation: 1500Vrms

C. Schematic:

