1Port Magnetic Jack with LED

Suggested PCB Layout (Top View)
1Port Magnetic Jack with LED

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![Diagram of 1Port Magnetic Jack with LED](image)

- TX 1CT : 1CT
- RX 1CT : 1CT
- PCB SIDE TO PHY
- CABLE SIDE
- GREEN/LEFT LED
- YELLOW/RIGHT LED
ELECTRICAL SPECIFICATIONS @25°C

1. Turn Ratio (±2%):
   TX=1CT:1CT  RX=1CT:1CT

2. Inductance OCL:
   350μH MIN @ 100KHz/0.1V 8mA DC Bias

3. Insertion Loss:
   -1.0dB MAX @ 1.0-100MHz

4. Return Loss:
   -18dB MIN @ 1-30MHz
   -15dB MIN @ 30-60MHz
   -12dB MIN @ 60-80MHz
   -10dB MIN @ 80-100MHz

5. Cross talk:
   -40dB MIN @ 30MHz
   -35dB MIN @ 60MHz
   -30dB MIN @ 100MHz

6. Common Mode Rejection:
   -40dB MIN @ 30MHz
   -35dB MIN @ 60MHz
   -30dB MIN @ 100MHz

7. Hipot Test: 1500Vrms

8. Operating Temperature Range: -40°C TO +85°C

NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and switches.

2. Meets IEEE 802.3 specification

3. Connector Materials:
   Housing: Thermoplastic UL94V-0
   Contact/Shield: Copper alloy
   Shield plating: Nickel
   Contact plating: Gold 6 micro-inches min. in contact area.

4. Wave solder tip temperature: 265°C Max
   Wave solder tip temperature time: 5 Sec Max.