

WitJack

1X1 Tab-Up RJ45

RJ-180G90

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Features

Description:

- ✦ 10/100 Base-TX RJ45 single port(1X1) Tab-Up with or without LEDs integrated magnetics connector (ICM), designed to support applications, such as Network Interface Cards (NIC), LAN-on Motherboard (LOM), and PC applications.

Features and Benefites:

- ✦ Single port Tab-Up with internal magnetics for 10/100 Base-TX
- ✦ Available with or without LEDs
- ✦ Suitable for CAT 5 and 6 Fast Ethernet cable or better UTP
- ✦ Internal magnetics are 100% electrically tested for HI-POT and functionality

Electrical Performance Summary:

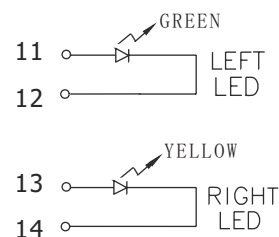
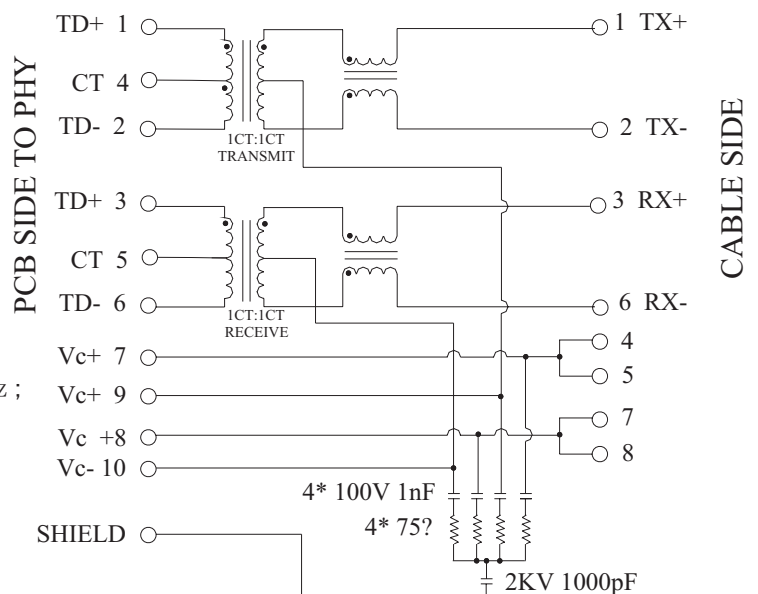
- ✦ Internal magnetics options available
- ✦ Meets or exceeds IEEE 802.3ab standard for 1000Base-T
- ✦ 350 uH minimum OCL with 8 mA bias current
- ✦ High performance for maximum EMI suppression
- ✦ Minimum 1500 Vrms isolation per IEEE 802.3 requirment

SPEC

Electrical Specifications @25°C - Operating Temperature 0°C to 70°C

1. TR: (50KHz, 1V) ;
(P1-P2) : (J1-J2)=1:1 $\pm$ 3%
(P3-P6) : (J7-J8)=1:1 $\pm$ 3%
2. LX: (100KHz, 0.1V, 8mA, DC Bias)
PINS: (P1-P2)=350uH MINIMUM
PINS: (P3-P6)=350uH MINIMUM
3. DCR: 1.5 OHMS MAXIMUM
4. HIPOT: 1500VAC FOR 60 SECONDS
5. INSERTION LOSS:
-1.0dB MAXIMUM AT 0.1MHz TO 100MHz;
6. RETURN LOSS:
-20dB MINIMUM AT 1MHz TO 30MHz;
-16dB MINIMUM AT 30MHz TO 60MHz;
-12dB MINIMUM AT 60MHz TO 80MHz;
-10dB MINIMUM AT 80MHz TO 100MHz;
7. CROSS TALK:
-40dB MINIMUM AT 1MHz TO 30MHz
-35dB MINIMUM AT 3MHz TO 60MHz
-30dB MINIMUM AT 60MHz TO 100MHz
8. COMMON MODE REJECTION:
-30dB MINIMUM AT 1MHz TO 100MHz

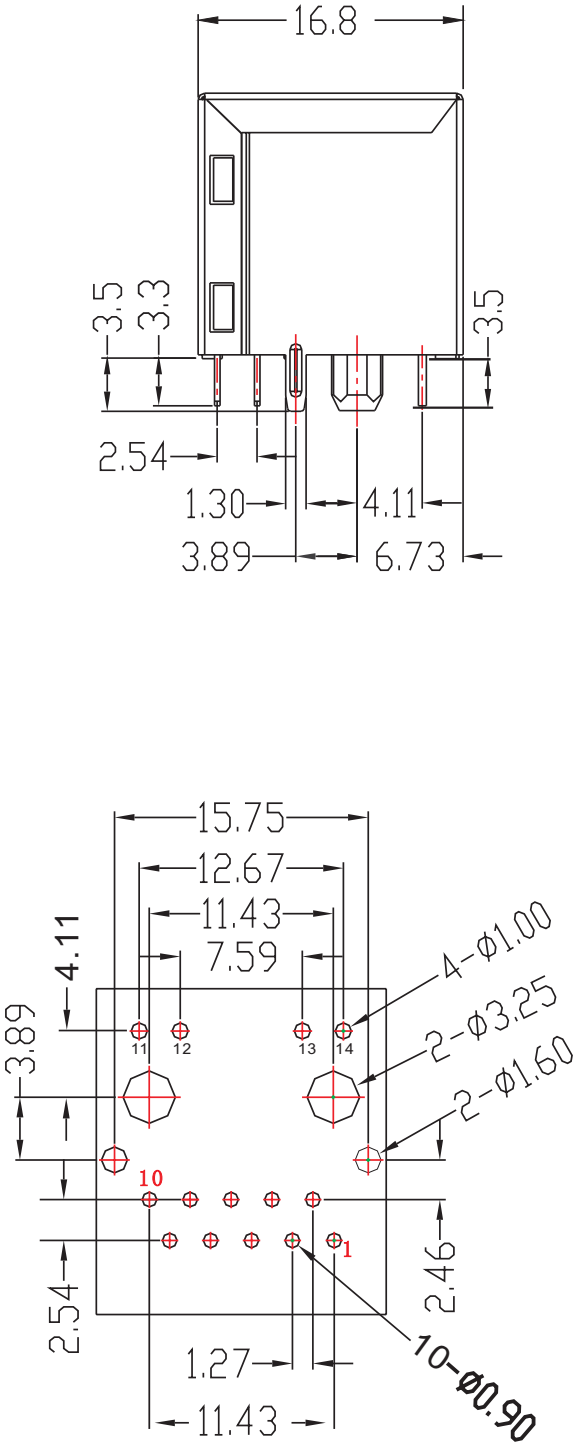
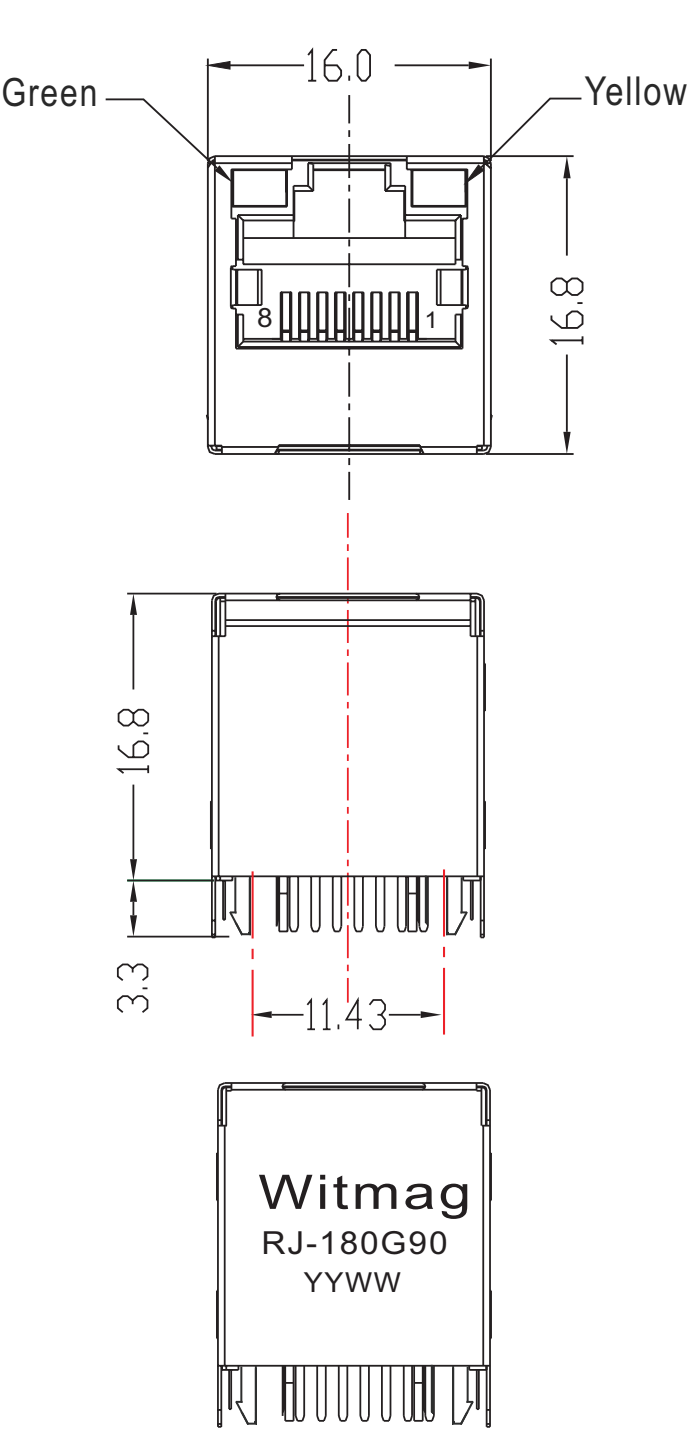
Schematics



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Mechanicals

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Units: mm

TOLERANCE DECIMALS: .X $\pm$ 0.25;
.XX $\pm$ 0.15; .XXX $\pm$ 0.05