



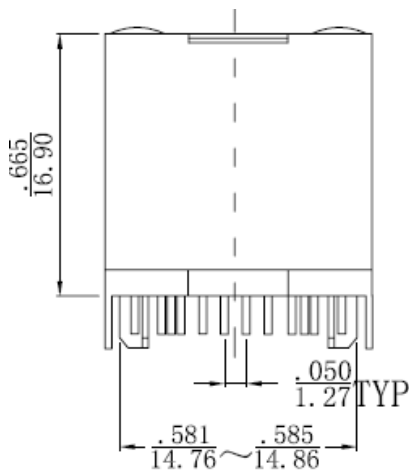
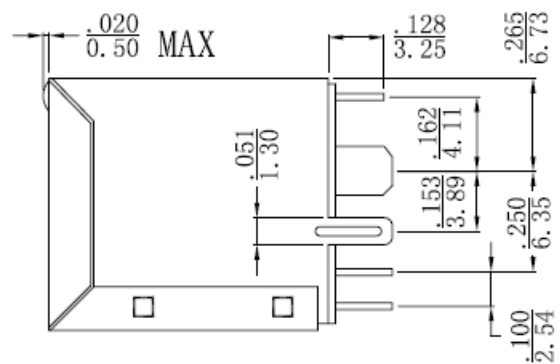
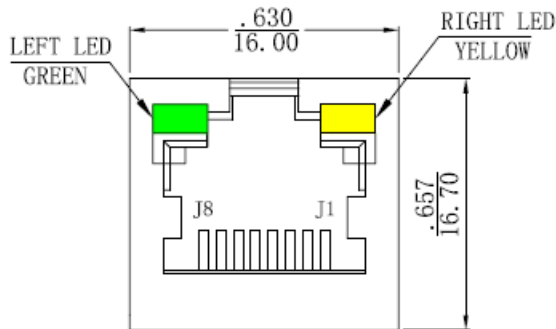
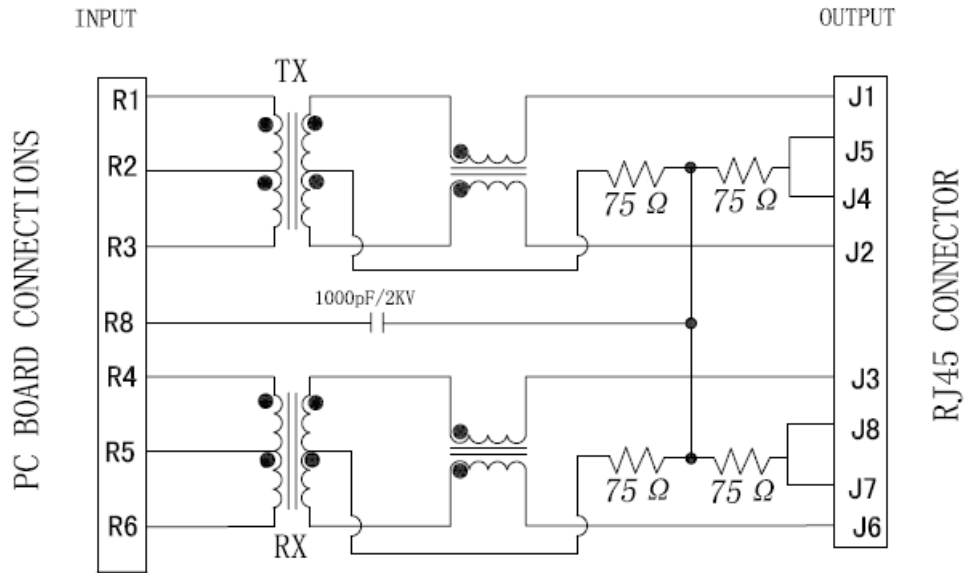
# PRAN ELECTRONICS PVT. LTD.

52, GIDC, Makarpura, Vadodara - 390 010. India.  
Phone : +91 - 265 - 263 2916, 263 5920 Fax : + 91 - 265 - 263 5918  
E-mail : info@pranelectronics.com Web : www.pranelectronics.com

**AN ISO 9001:2000 COMPANY**

## 1Port Magnetic Jack with LED

Specifications: Part No: JP-TS-20003-2

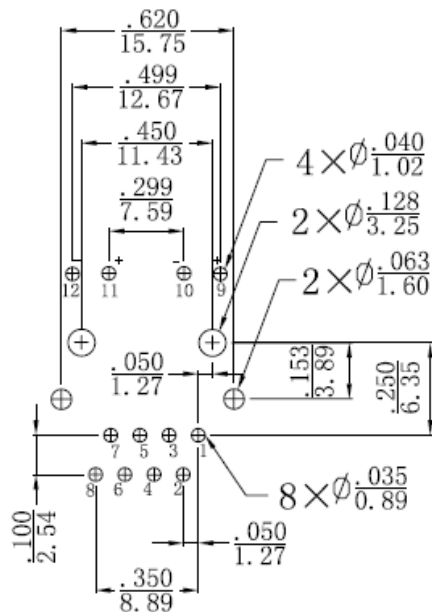




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SUGGESTED PCB LAYOUT (TOP VIEW)

P.C.B recommended hole layout seen from Component Side all Centering dimensions are basic.

## Electrical Specifications:

- Turns Ratio: P1~P3: J1~J2  $1:1 \pm 3\%$   
P4~P6: J3~J6  $1:1 \pm 3\%$
- Inductance: P1~P3 350uH Min @0.1V, 100KHz, 8mA DC bias  
P4~P6 350uH Min @0.1V, 100KHz, 8mA DC bias
- Leakage Inductance: P1~P3 (with J1 & J2 Short) 0.3uH Max @ 1MHz  
P4~P6 (with J3 & J6 Short) 0.3uH Max @ 1MHz
- Interwinding Capacitance: P1~P3: J1~J2 30pF Max @ 1MHz  
P4~P6: J3~J6 30pF Max @ 1MHz
- DC Resistance: J1~J2:J3~J6 1.2 Ohms Max
- Return Loss: 1MHz to 30MHz -18dB min.  
30MHz to 80MHz -12dB min.
- Dielectric withstand: P1~P3: J1~J2 1500VAC  
P4~P6: J3~J6 1500VAC
- Insertion Loss:  $R_S=R_L = 100 \text{ Ohm}$  100 KHz to 80MHz -1.1dB min.
- Rise time:  $R_S = 100 \text{ Ohms}$  and  $R_L = 100 \text{ Ohms}$   
Output Voltage = 1V Peak 3.0nS max.  
Pulse Width = 112nS 3.0nS max.
- Cross talk: 1MHz to 100 MHz 40dB Typ.
- Common to common mode attenuation: 30MHz to 100MHz 35dB Typ.