



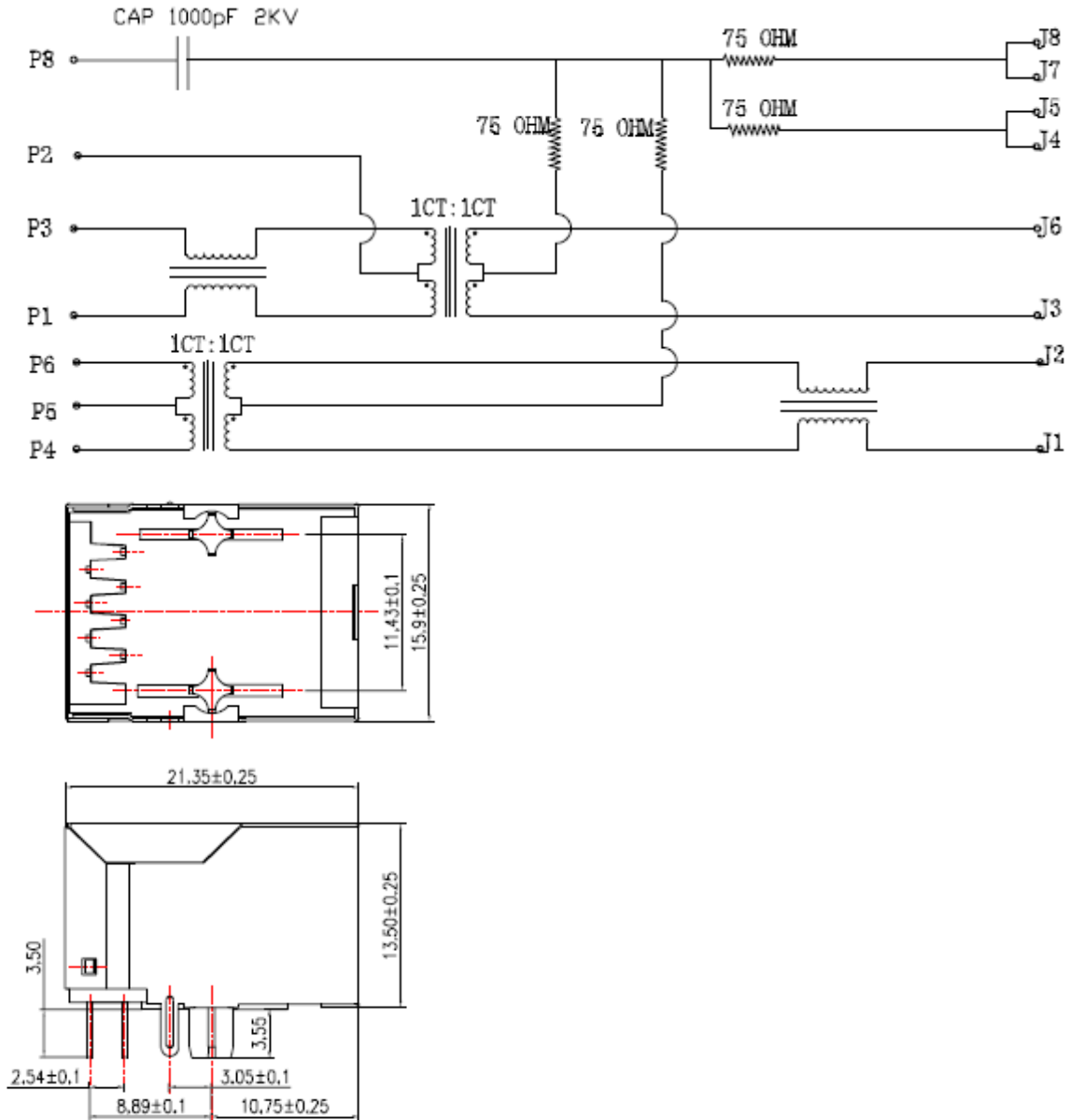
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AN ISO 9001:2000 COMPANY

1Port Magnetic Jack

Specifications: Part No: JP-TS-10024-1

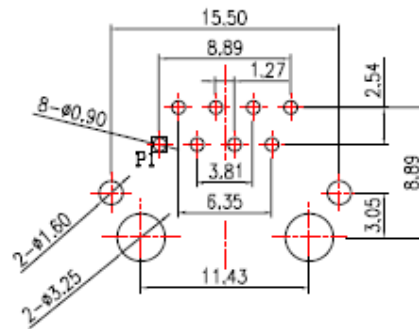




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P.C.B RECOMMENDED HOLE LAYOUT SEEN FROM COMPONENT SIDE.

ALL CENTERLINE 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: RS=RL = 100 Ohm 100 KHz to 80MHz -1.1dB min.
- Rise time: RS = 100 Ohms and RL = 100 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.



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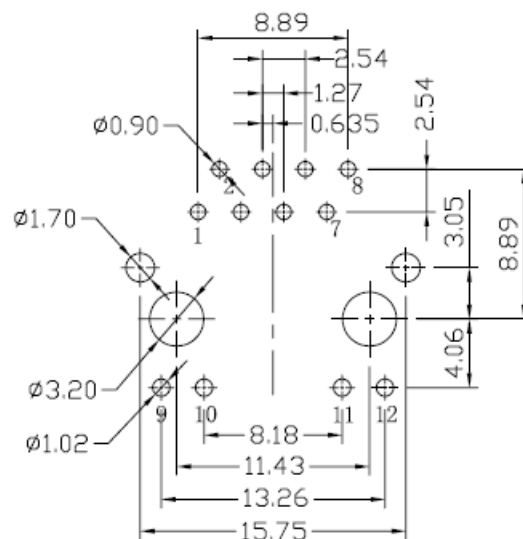
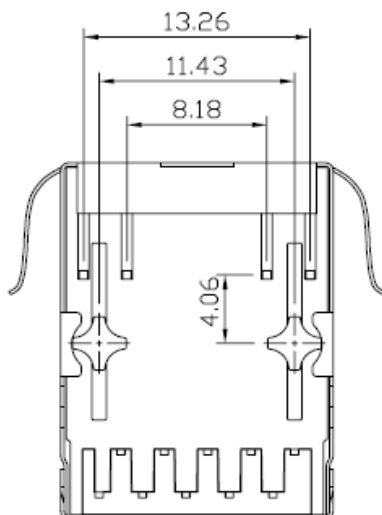
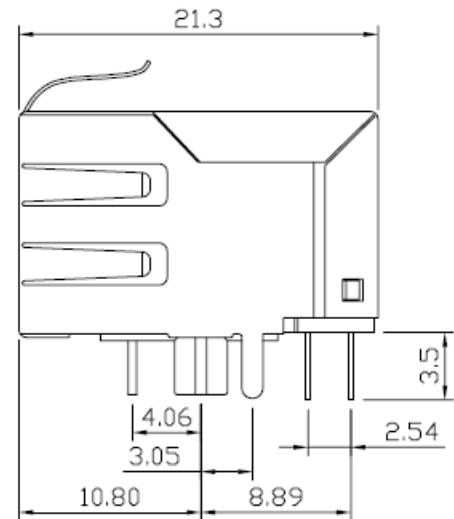
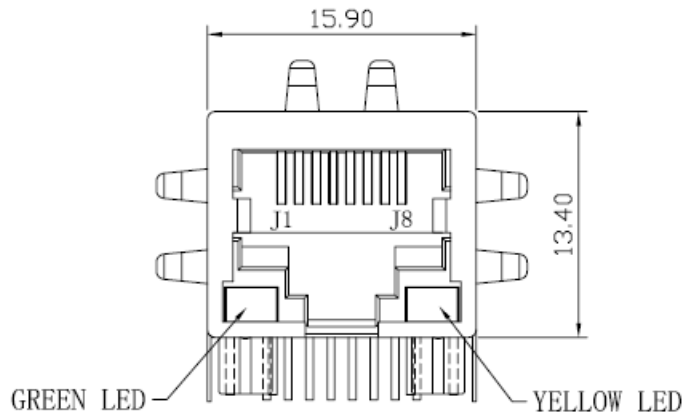
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1Port Magnetic Jack with LED

Specifications: Part No: JP-TS-10024-2

Rev.01: 2/05/2011

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SUGGESTED PCB LAYOUT (TOP VIEW)



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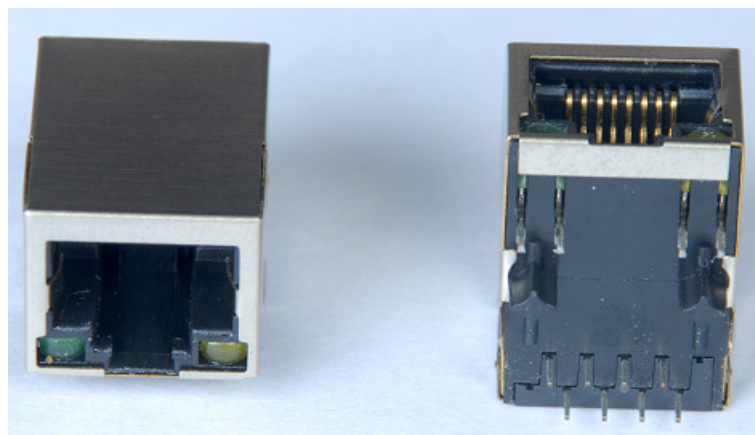
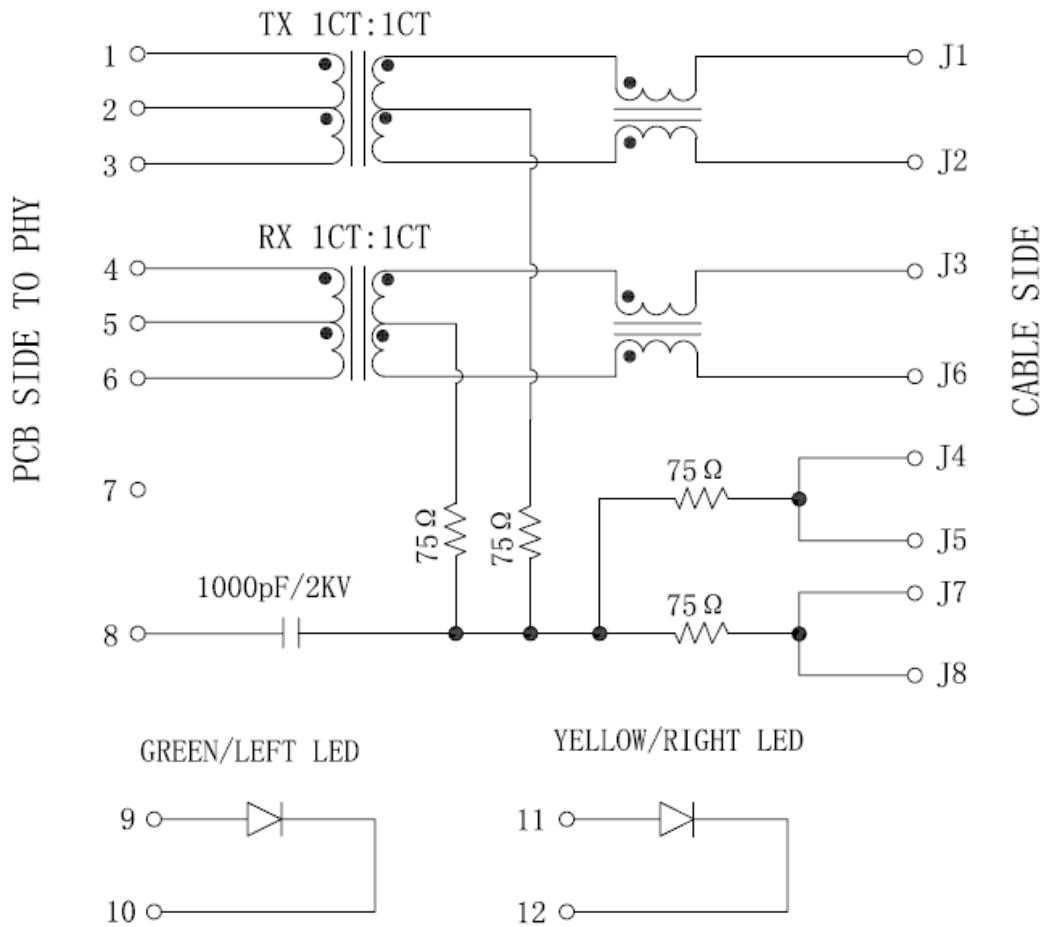
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1Port Magnetic Jack with LED

Specifications: Part No: JP-TS-10024-2

Rev.01: 2/05/2011

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1Port Magnetic Jack with LED

Specifications: Part No: JP-TS-10024-2

Rev.01: 2/05/2011

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ELECTRICAL SPECIFICATIONS @25°C

1. Turn Ratio($\pm 2\%$):
TX=1CT:1CT RX=1CT:1CT
2. Inductance OCL:
350uH 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.

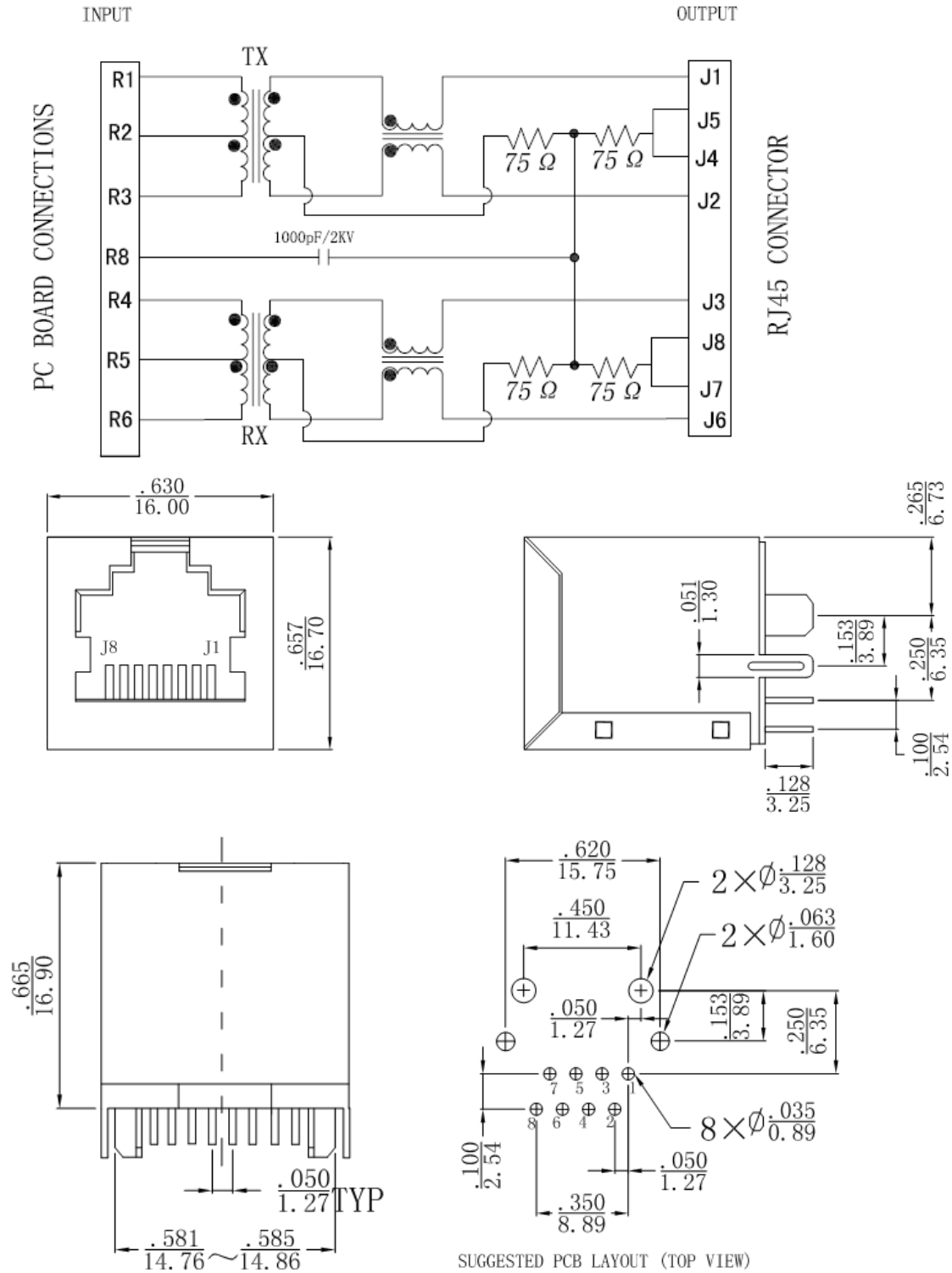


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1Port Magnetic Jack top/straight entry specifications: Part No: JP-TS-20003





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1Port Magnetic Jack top/straight entry Specifications: Part No: JP-TS-20003

Electrical Specification:

TEST NOTES (25±5°C)

1. TR: (100KHZ, 0. 1V) ;
TX=1:1±2% RX=1:1±2%
2. LX: (100KHZ, 100mV, 8mA, DC Bias)
PINS: (R1-R3), (R4-R6)=350uH MIN
3. Transmitter filter & Receiver filter Type:
Balance low pass 100Ω impedance
4. HIPOT:
Input (R1-R3) TO Output (C1-C2) :1500VAC 60sec
Input (R4-R6) TO Output (C3-C6) :1500VAC 60sec
5. INSERTION LOSS:
-1. 0dB MAX @ 1. 0MHz TO 100MHz
6. RETURN LOSS:
-18dB MIN @ 1. 0MHz TO 30MHz
-16dB MIN @ 30MHz TO 60MHz
-12dB MIN @ 60MHz TO 80MHz
7. CROSS TALK:
-30dB MIN @1. 0MHz TO 100MHz
8. COMMON MODE REJECTION:
-30dB MIN @1. 0MHz TO 100MHz
9. OPERATING TEMPERATURE: 0°C ~70°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



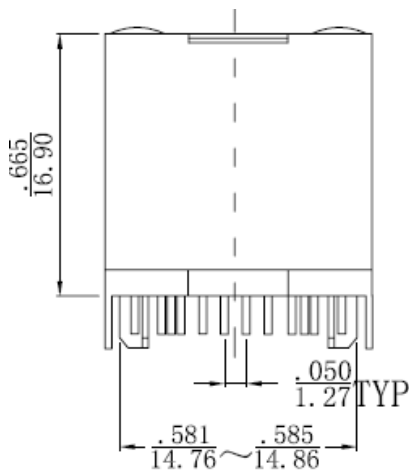
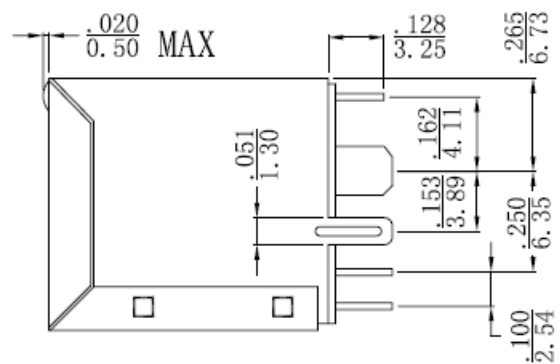
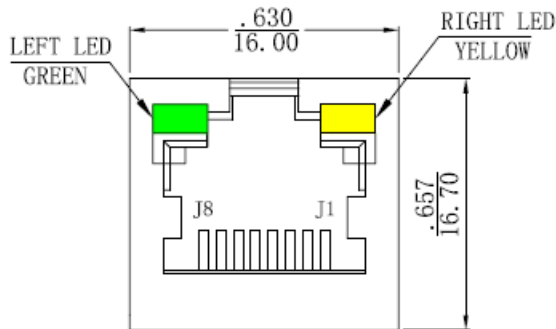
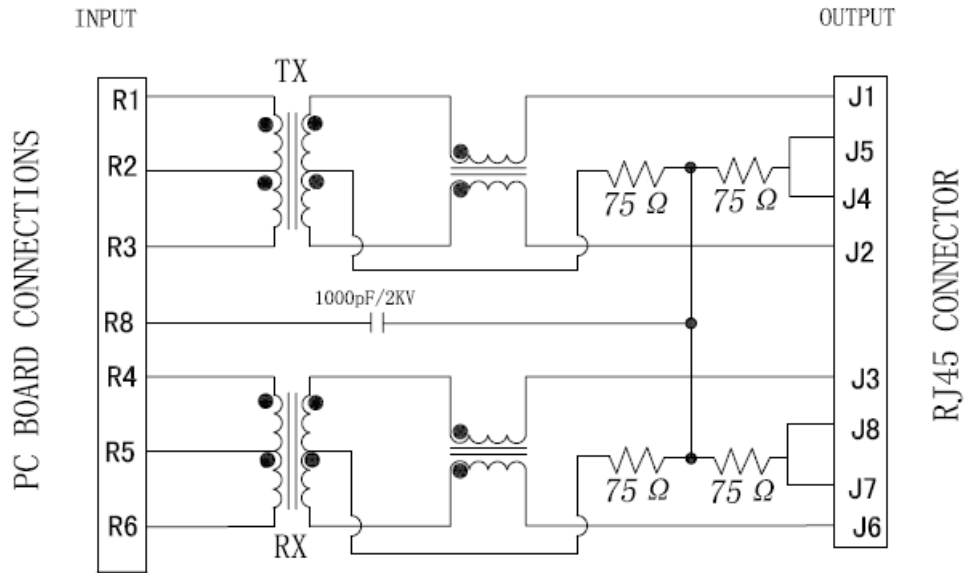
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1Port Magnetic Jack with LED

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

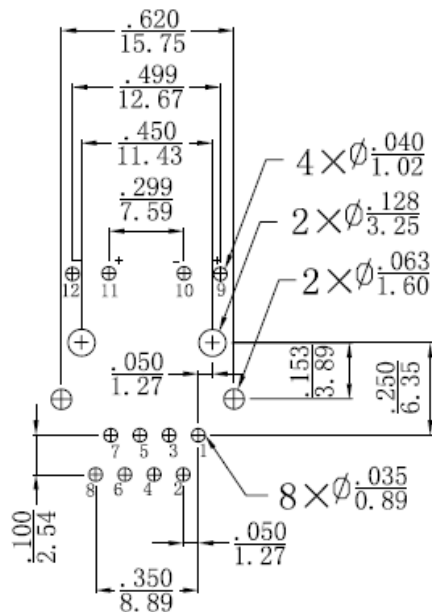




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SUGGESTED PCB LAYOUT (TOP VIEW)

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

Electrical Specifications:

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