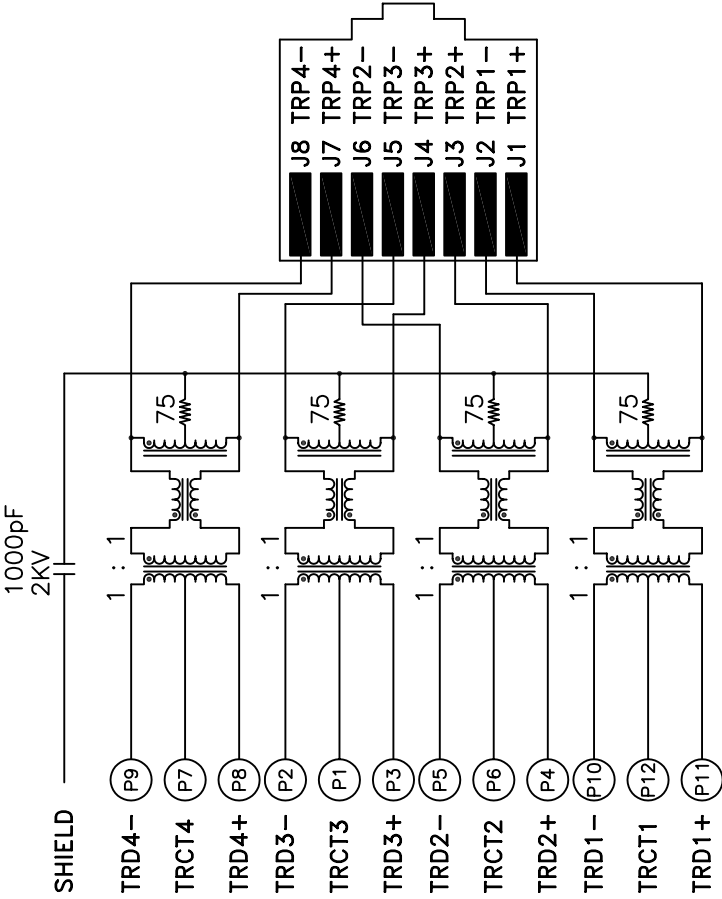


ELECTRICAL SPECIFICATIONS:

OPERATING TEMPERATURE RANGE:

1.0 TURNS RATIO: (P3-P2) : (J4-J5)
(P5-P4) : (J6-J3)
(P9-P8) : (J8-J7)
(P10-P11) : (J2-J1)

2.0 INDUCTANCE: (P3-P2) ; (P5-P4)
(P10-P11) ; (P9-P8)

3.0 LEAKAGE INDUCTANCE: P3-P2 (WITH J4 AND J5 SHORT)
P5-P4 (WITH J6 AND J3 SHORT)
P9-P8 (WITH J8 AND J7 SHORT)
P10-P11 (WITH J1 AND J2 SHORT)

4.0 DC RESISTANCE: (J6-J3) ; (J2-J1) ; (J7-J8) ; (J4-J5)

: -40°C TO +85°C

: 1 : 1 ±2%
: 1 : 1 ±2%
: 1 : 1 ±2%
: 1 : 1 ±2%

: 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS
: 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS

: .35uH MAX @ 1MHz
: .35uH MAX @ 1MHz
: .35uH MAX @ 1MHz
: .35uH MAX @ 1MHz

: 1.2 ohms Max.

Bel Stewart Connector
11118 Susquehanna Trail, South
Glen Rock, Pa 17327-9199
717.234.7512

MagJack®

<http://www.stewartconnector.com>

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5.0 RETURN LOSS: 1MHz TO 30MHz
30MHz TO 60MHz
60MHz TO 80MHz
80MHz TO 100MHz
: -19dB MIN.
: -13dB MIN.
: -12dB MIN.
: -10dB MIN.

6.0 DIELECTRIC WITHSTAND: (J1,J2) TO (P10,P11) ; (J5,J4) TO (P3-P2)
(J3,J6) TO (P5,P4) ; (J8,J7) TO (P9, P8)
: 1500 VAC
: 1500 VAC

7.0 INSERTION LOSS: RS=RL=100 ohms
100KHz TO 125MHz
: -1.1 dB TYP

8.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS
OUTPUT VOLTAGE = 1 V peak
PULSE WIDTH= 112nS
: 3.0 nS MAX
: 3.0 nS MAX

9.0 CROSS TALK: 1-100 MHz
: $-[33-20 \text{ LOG } (\frac{F}{50 \text{ MHz}})] \text{ MIN.}$

10.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz
: -35dB TYP

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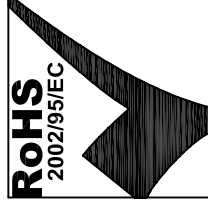
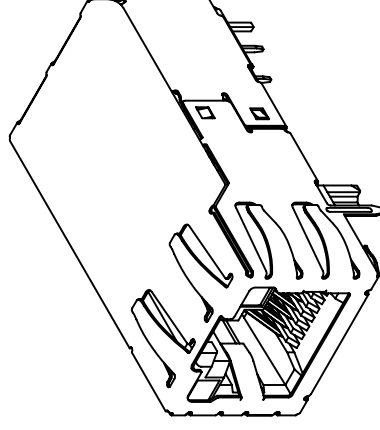
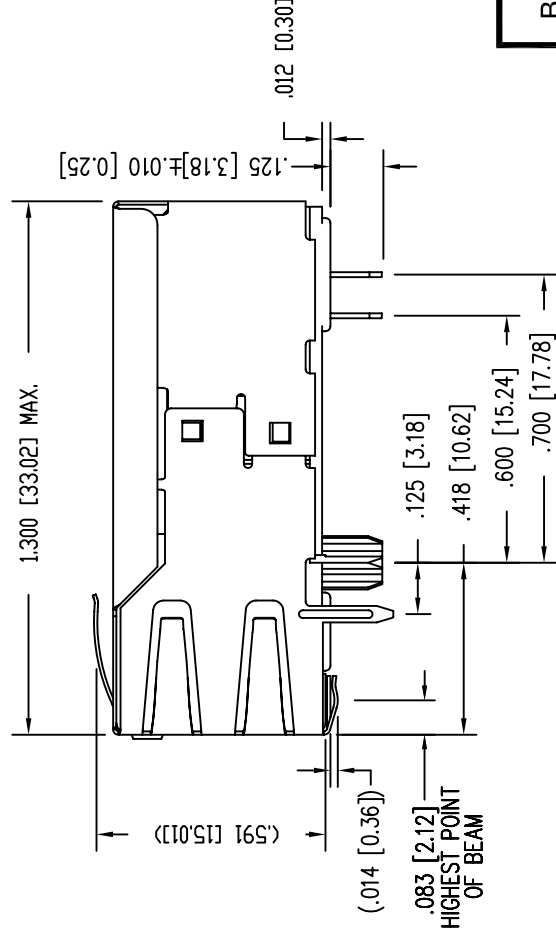
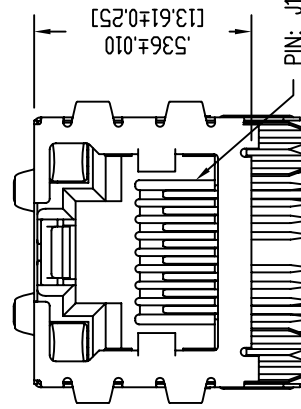
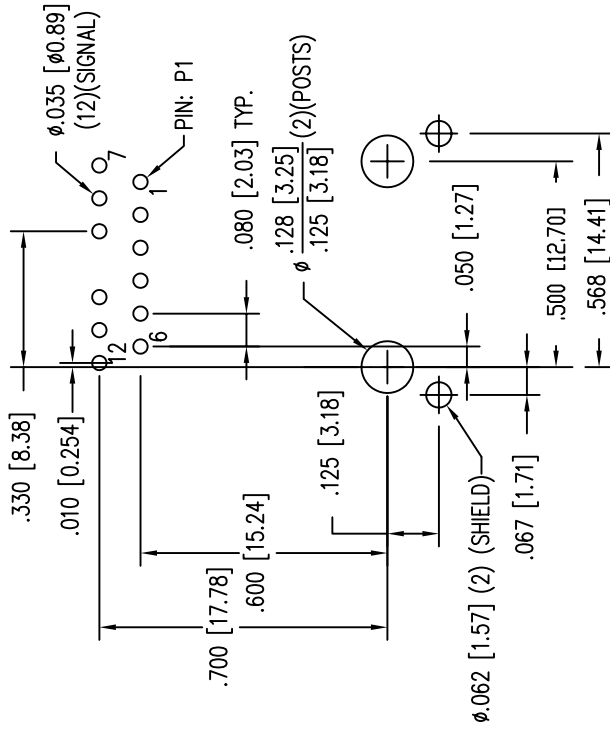
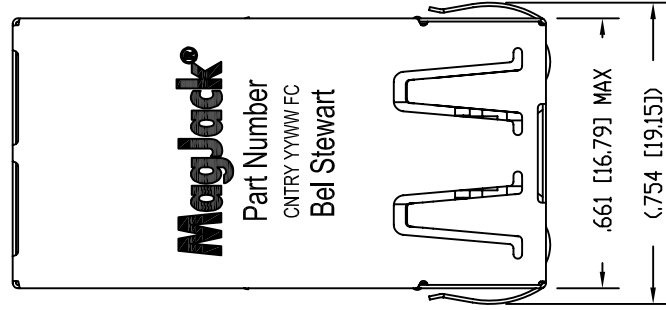
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NOTES:

- CONNECTOR MATERIALS:
HOUSING: THERMOPLASTIC UL94 V-0
CONTACT/SHIELD: COPPER ALLOY
SHIELD PLATING: NICKEL OR TIN
CONTACT PLATING: SELECTIVE GOLD,
50 MICRO-INCHES MIN. IN CONTACT AREA.
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE $\pm .005$ [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR 10 SECONDS MAX.

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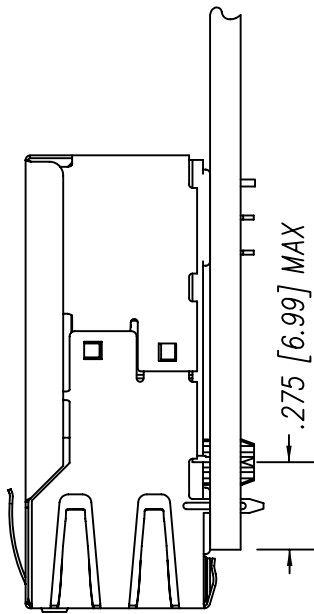
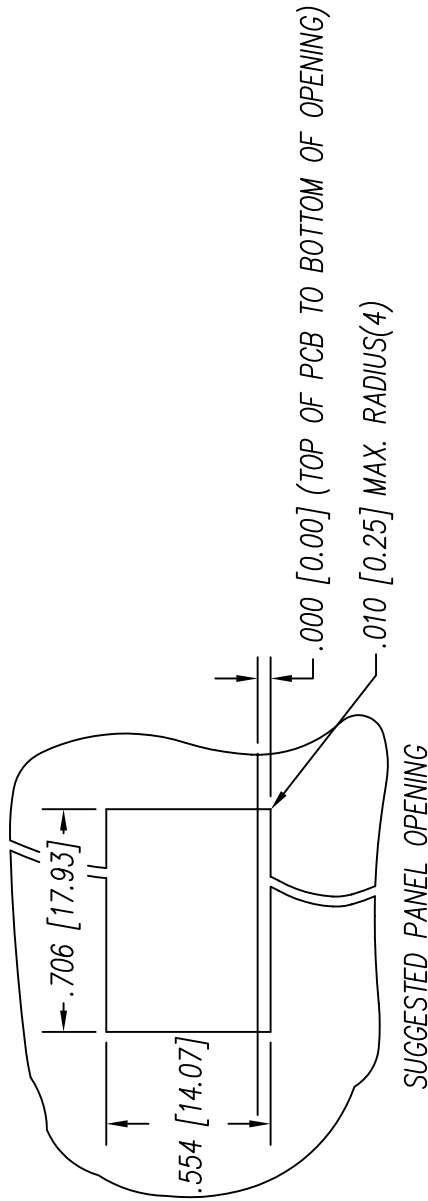
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1. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.
2. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE $\pm .005$ [0.13]