

ELECTRICAL SPECIFICATIONS:

1.0 TURNS RATIO (P6-P5-P4) : (J6-J3)
(P3-P2-P1) : (J2-J1)

: 1CT : 1CT \pm 3%
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2.0 INDUCTANCE (P6-P4)
(P3-P1)

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

3.0 LEAKAGE INDUCTANCE P6-P4 (WITH J6 AND J3 SHORT)
P3-P1 (WITH J2 AND J1 SHORT)

: 0.3 MAX. @ 1MHz
: 0.3 MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE (P6,P5,P4) TO (J6,J3)
(P3,P2,P1) TO (J2,J1)

: 30pf MAX @ 1MHz
: 30pf MAX. @ 1MHz

5.0 DC RESISTANCE (J6-J3)=(J2-J1)

: 1.2 ohms Max.

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

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

MagJack®

<http://www.stewartconnector.com>

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6.0 RETURN LOSS: $(P6-P4)=100 \text{ }\Omega\text{HMS}$ AND $(P1-P3)=100 \text{ }\Omega\text{HM}$ REF.

1MHz TO 30MHz	: 18dB MIN.
60MHz TO 80MHz	: 12dB MIN.

NOTE: 100 ΩHMS CONNECTED TO (J2-J1) OR (J6-J3).

7.0 VOLTAGE WITHSTAND:

(J1, J2) TO (P1, P3)	: 1500 VAC
(J3, J6) TO (P4,P6)	: 1500 VAC

8.0 INSERTION LOSS: $RS=RL=100 \text{ ohms}$

100KHz TO 100MHz	1.1 dB TYP
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9.0 RISE TIME: $RS=100 \text{ }\Omega\text{HMS}$ AND $RL = 100 \text{ }\Omega\text{HMS}$

OUTPUT VOLTAGE = 1 V peak	3.0 nS MAX
PULSE WIDTH= 112nS	3.0 nS MAX

10.0 CROSS TALK:

1MHz TO 100MHz	40 dB TYP
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11.0 COMMON TO COMMON MODE ATTENUATION:

30MHz TO 100MHz	35dB TYP
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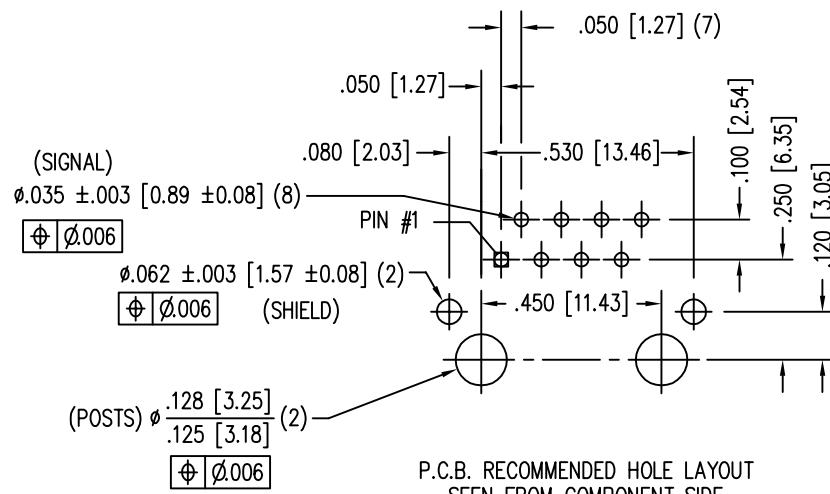
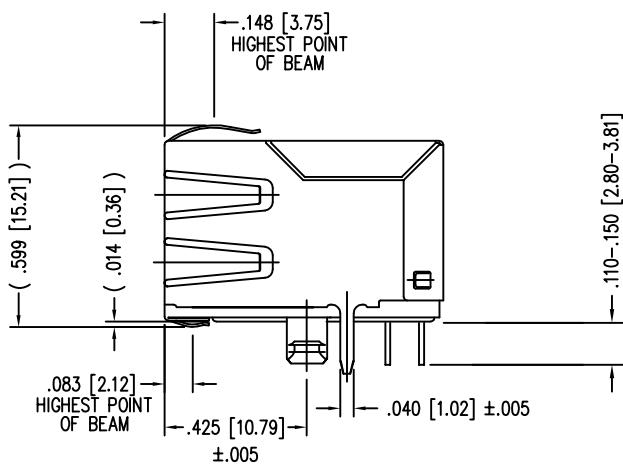
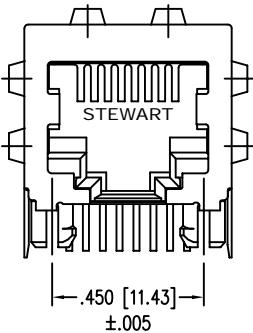
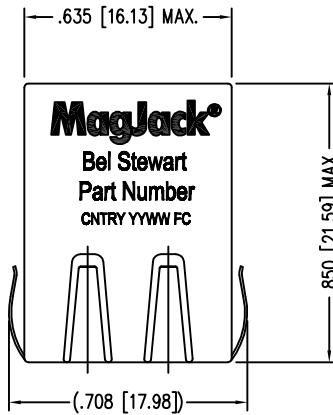
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P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE

ALL CENTERLINE DIMENSIONS ARE BASIC.

NOTES:

1. 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.
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±.005 [0.13]
5. WAVE SOLDER COMPATIBLE – PREHEAT 125°C/90SECS.

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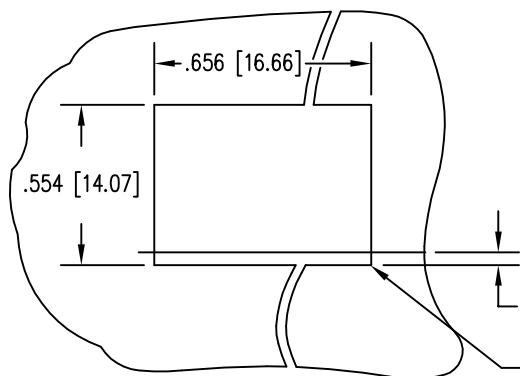
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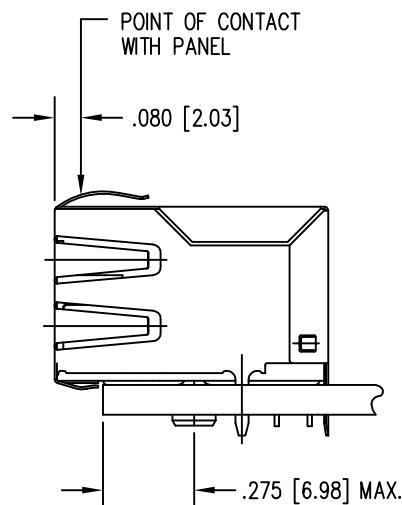
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SI-10281 REV. 09



SUGGESTED PANEL OPENING



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]

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DRAWING NO.

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