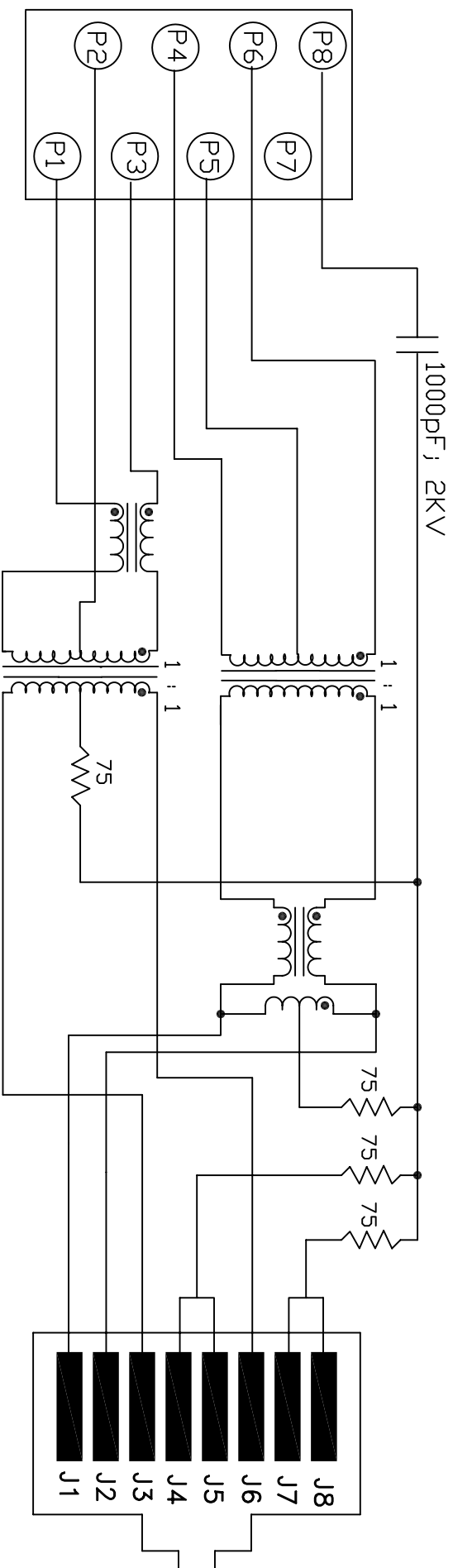




ELECTRICAL SPECIFICATIONS:

OPERATING TEMPERATURE RANGE:

: -40°C TO +85°C

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

: 1CT : 1CT ± 3%
: 1CT : 1CT ± 3%

2.0 INDUCTANCE: (J6-J3)
(P6-P4)

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

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

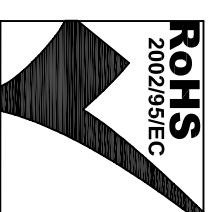
: 40pf MAX. @ 1MHz
: 40pf MAX. @ 1MHz

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

: 1.5 ohms Max.

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.



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RECEIVE

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

NOTE: 100 OHMS CONNECTED TO (P3-P1) OR (J2-J1).

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

8.0 INSERTION LOSS: RS=RL=100 ohms : 1.1 dB TYP
100kHz TO 100MHz

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

10.0 CROSS TALK: 1MHz TO 100MHz : 40 dB TYP

11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : 35dB TYP

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Glen Rock, Pa 17327-9199
717.234.7512

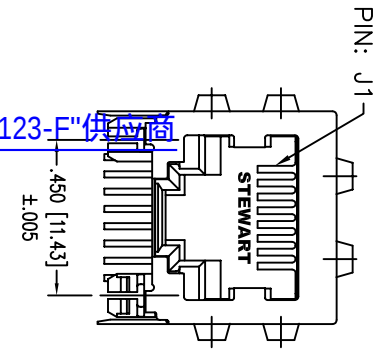
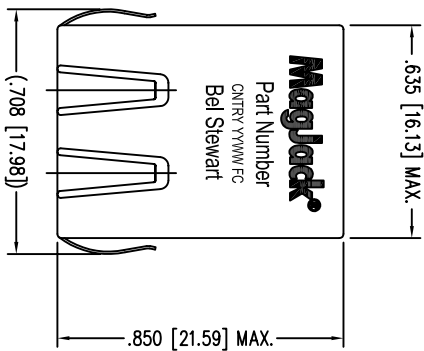
<http://www.stewartconnector.com>

MagJack

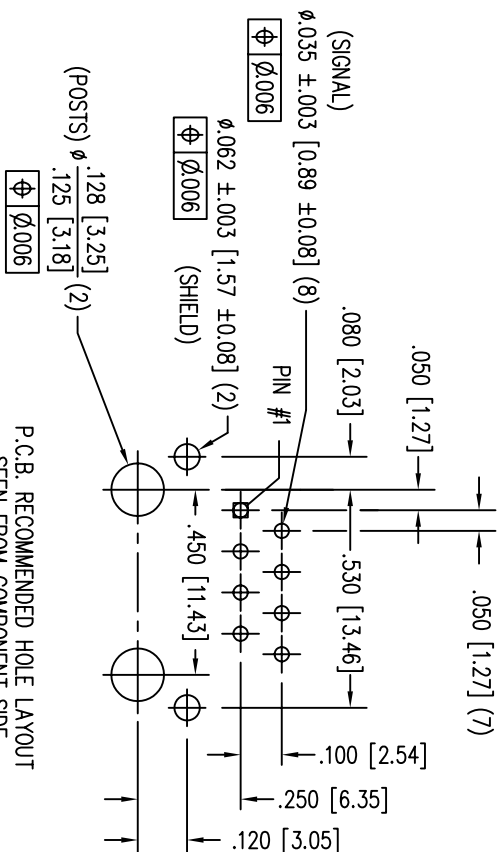
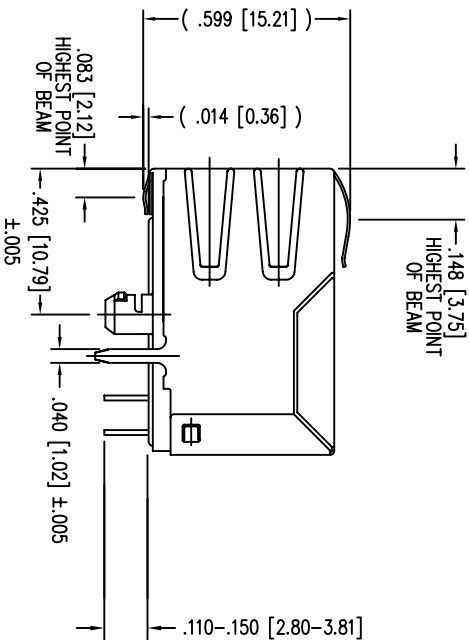
SHEET
2 OF 4

DRAWING NO.
SI-60123-F

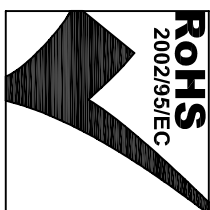
REV.
02



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P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE
ALL CENTERLINE DIMENSIONS ARE BASIC.



NOTES:

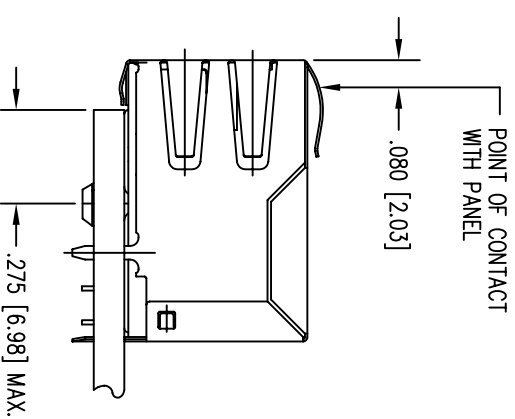
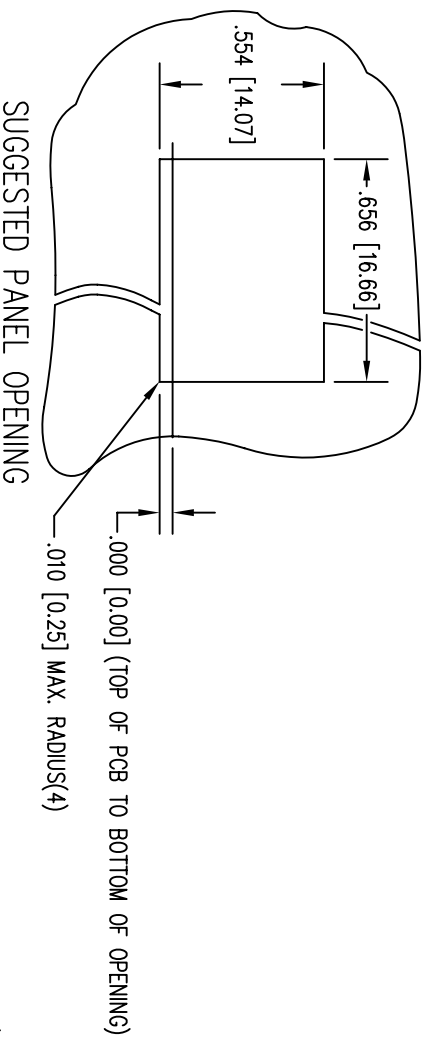
1. CONNECTOR MATERIALS:
HOUSING: THERMOPLASTIC UL94 V-0
CONTACT/SHIELD: COPPER ALLOY
SHIELD PLATING: NICKEL OR TIN
CONTACT PLATING: SELECTIVE GOLD,
50 MICRO-INCHES MIN. IN CONTACT AREA.
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
3. TOLERANCES COMPLY WITH 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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717.234.7512

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<http://www.stewartconnector.com>

SHEET 3 OF 4 DRAWING NO. SI-60123-F REV. 12



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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