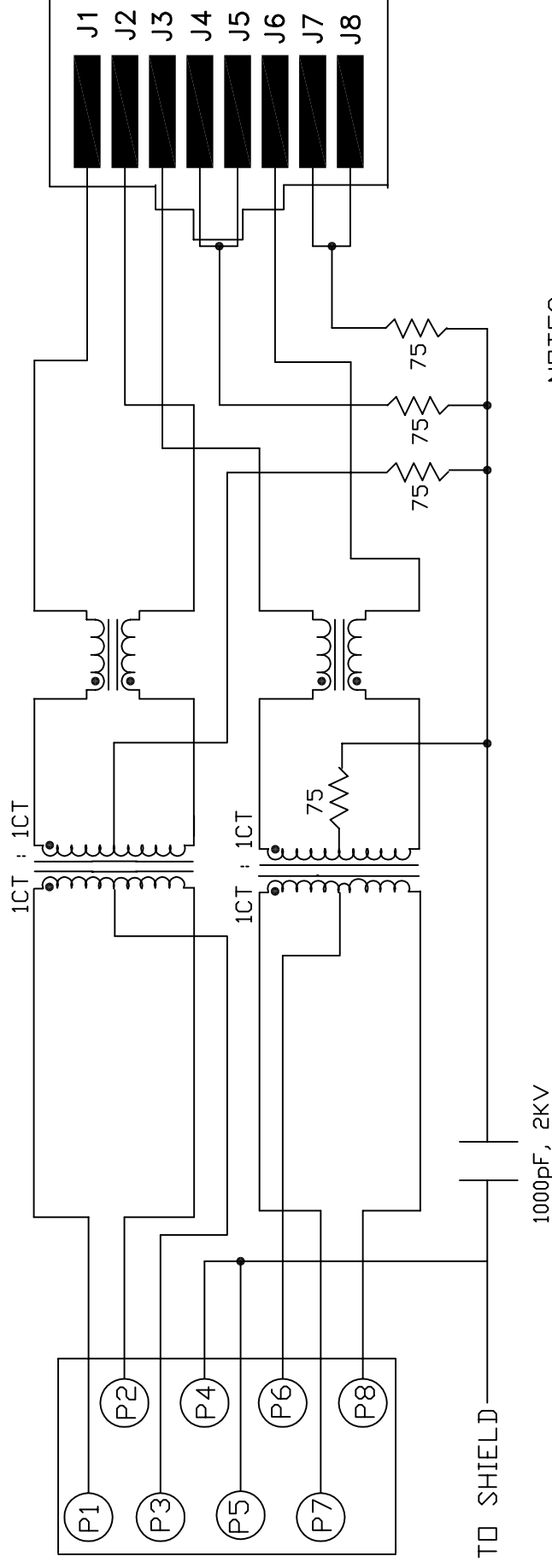


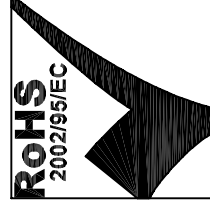


NOTES

- 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.
- 2.0 ALL RESISTORS ARE $\pm 5\%$ TOLERANCE.

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: $\{P7-P6-P8\} : \{J3-J6\}$
 $\{P1-P3-P2\} : \{J1-J2\}$
 - : 1CT : 1CT $\pm 3\%$
 - : 1CT : 1CT $\pm 3\%$
- 2.0 INDUCTANCE: $\{P7-P8\}$
 $\{P1-P2\}$
 - : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
 - : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: $P7-P8$ (WITH $J6$ AND $J3$ SHORT)
 $P1-P2$ (WITH $J2$ AND $J1$ SHORT)
 - : 0.3uH MAX. @ 1MHZ
 - : 0.3uH MAX. @ 1MHZ
- 4.0 INTERWINDING CAPACITANCE: $\{P7,P6,P8\}$ TO $\{J6,J3\}$
 $\{P1,P3,P2\}$ TO $\{J2,J1\}$
 - : 30pf TYP @ 1MHZ
 - : 30pf TYP @ 1MHZ
- 5.0 DC RESISTANCE: $\{J6-J3\} = \{J2-J1\}$
 - : 1.2 ohms Max.



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

MagJack®

<http://www.stewartconnector.com>

6.0 RETURN LOSS: (P7-P8)=100 OHMS AND (P1-P2) =100 OHM REF.
1MHz TO 30MHz : -18dB MIN.
30MHz TO 60MHz : -(19-20 LOG (f/30MHz))
60MHz TO 80MHz : 12dB MIN.

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

7.0 DIELECTRIC WITHSTAND: (J3, J6) TO (P7, P8)
(J1, J2) TO (P1,P2) : 1500 VAC
: 1500 VAC

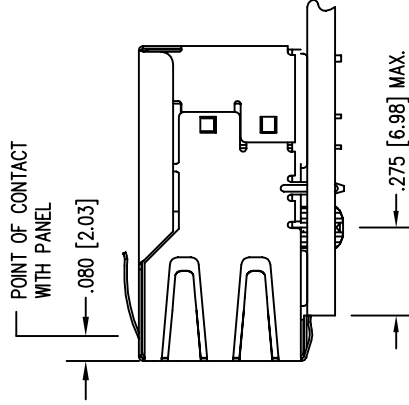
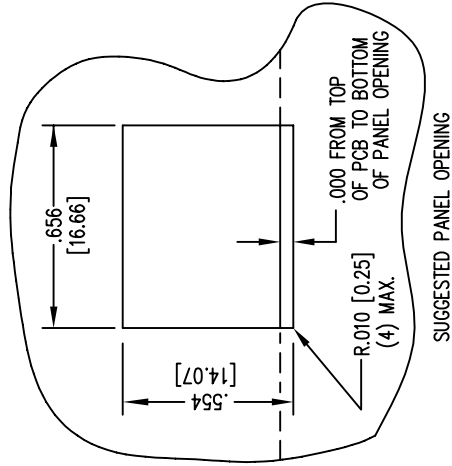
8.0 INSERTION LOSS: RS=RL=100 ohms
1-65MHz : -1 dB MAX

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

10.0 CROSS TALK: 1-65MHz : -35 dB MIN

11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : -30dB MAX
100MHz TO 130MHz : -20dB MAX

RECEIVE



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]