

ELECTRICAL SPECIFICATIONS:

1.0 TURNS RATIO:  $(P6-P5-P4) : (J6-J3)$  : 1CT : 1CT ± 3%  
 $(P3-P2-P1) : (J2-J1)$  : 1CT : 1CT ± 3%

2.0 INDUCTANCE:  $(P6-P5-P4)$  : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias  
 $(P3-P2-P1)$  : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias

3.0 LEAKAGE INDUCTANCE:  $P6-P5-P4$  (WITH  $J6$  AND  $J3$  SHORT) : 0.3 MAX. @ 1MHz  
 $P3-P2-P1$  (WITH  $J2$  AND  $J1$  SHORT) : 0.3 MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE:  $(P6,P5,P4)$  TO  $(J6,J3)$  : 30pf MAX @ 1MHz  
 $(P3,P2,P1)$  TO  $(J2,J1)$  : 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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RECEIVE

6.0 RETURN LOSS: (P6-P4)=100 OHMS AND (P1-P3)=100 OHM REF.  
1MHz TO 30MHz : 18dB MIN.  
60MHz TO 80MHz : 12dB MIN.

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

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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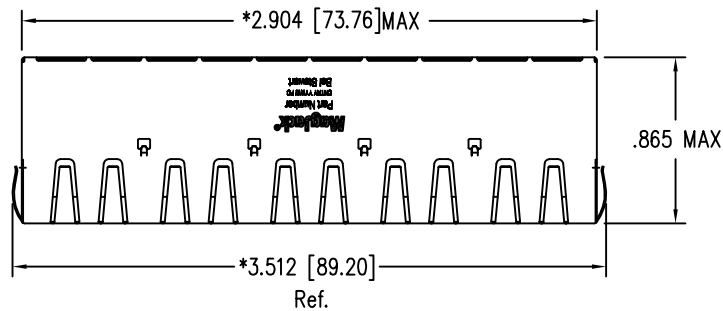
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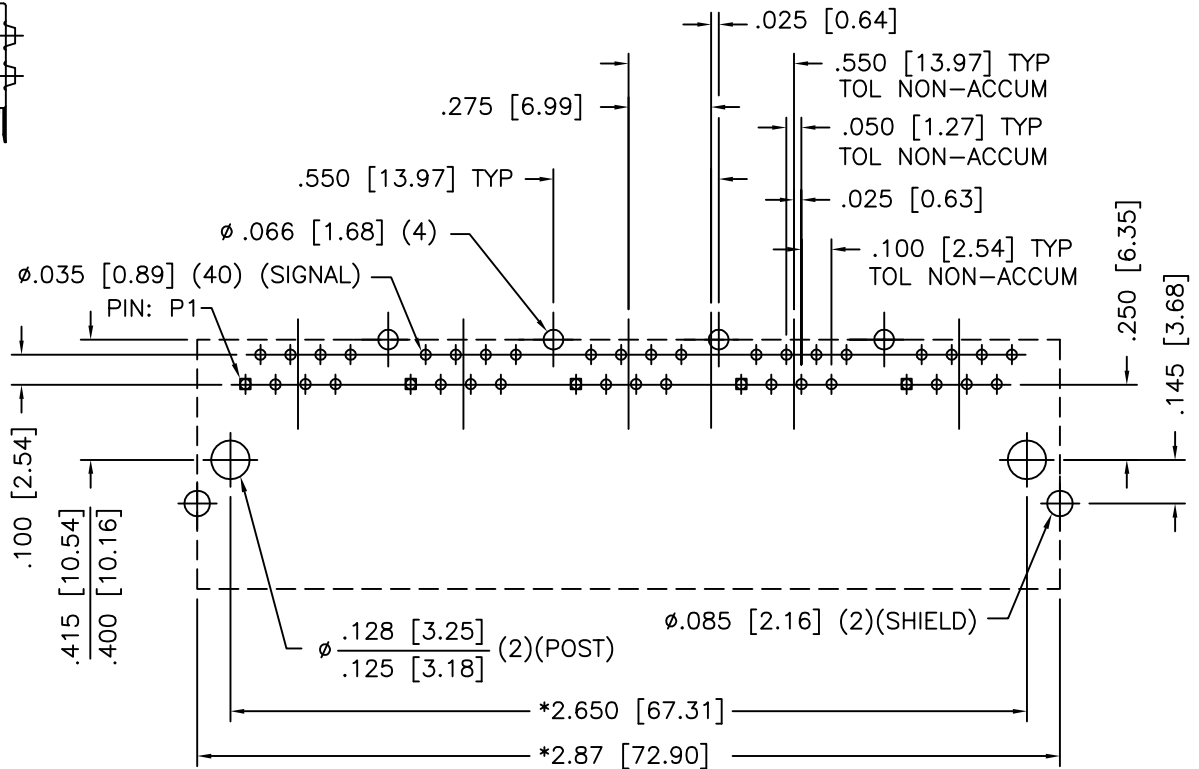
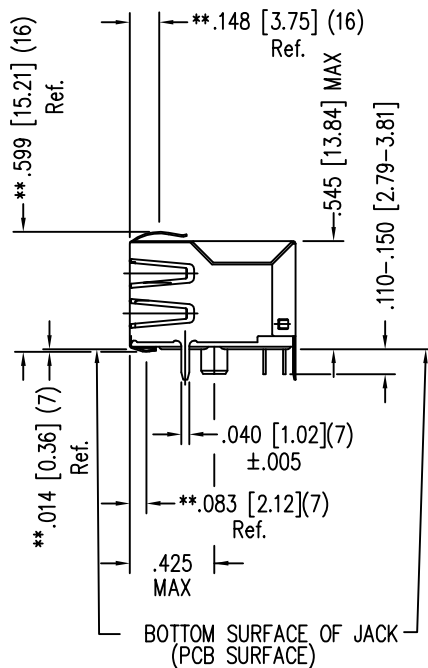
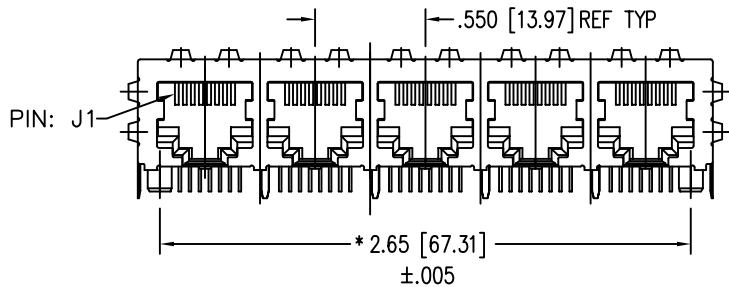
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- NOTES:
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS
  - DIMENSIONS SHOWN WITH "\*" TO BE CENTRAL ABOUT CENTER LINE
  - "\*" ON DIMENSION INDICATES HIGHEST POINT OF BEAM
  - PINS NOT ELECTRICALLY CONNECTED MAYBE OMITTED. SEE ELECTRICAL DRAWING FOR OMITTED PINS.
  - HIGH TEMPERATURE REFLOW COMPATABLE - 230°C/90 SEC MAX.
  - STANDARD 50 MICRO-INCH GOLD SELECTIVE
  - ALL POLYMERS FLAMMABILITY - UL94V0



P.C.B. RECOMMENDED HOLE LAYOUT  
 SEEN FROM COMPONENT SIDE  
 TOLERANCE ±.003 [0.08] UNLESS OTHERWISE SPECIFIED

CT660100X2 / 240221 X

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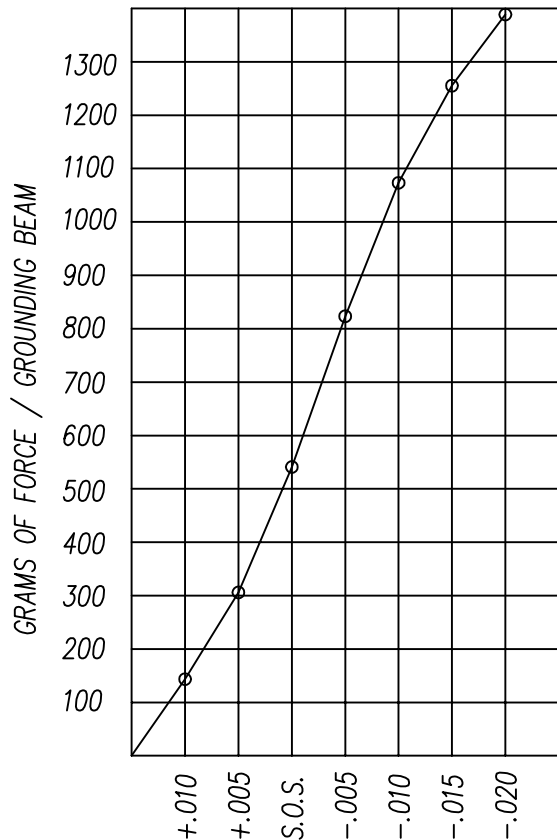
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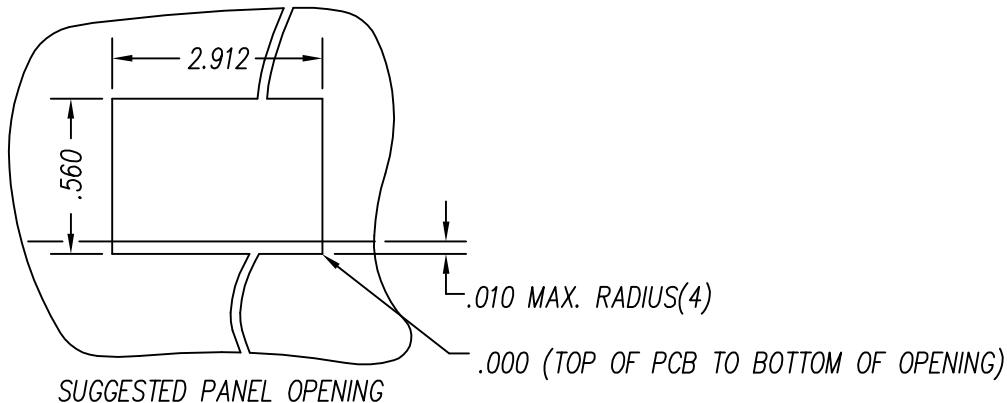
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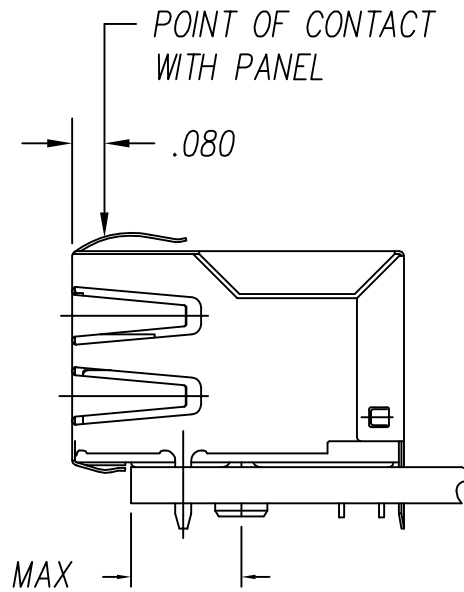
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PANEL GROUNDING BEAM DEFLECTION  
S.O.S. = SUGGESTED OPENING SIZE



CT660100X2 / 240221 X



THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY. THESE VARIABLES CAN BE ADJUSTED IN EITHER DIRECTION BUT MAY CARRY SOME CONSEQUENCES IN THE FORM OF LOWER MATING FORCES OR TIGHTER ASSEMBLY TOLERANCES. FORCE VALUES ON THE GRAPH ARE GENERAL AVERAGES TAKEN AT THE POINT OF CONTACT SHOWN ABOVE. THE SUGGESTED PANEL OPENING INCLUDES APPROXIMATELY .020 CLEARANCE ON THE SIDES AND TOP AND .005 ON THE BOTTOM.

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