

## **ELECTRICAL SPECIFICATIONS:**

NOTES

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

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

2.0 INDUCTANCE: (P6-P5-P4) (P3-P2-P1)

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

3.0 LEAKAGE INDUCTANCE: P6-P5-P4 (WITH J6 AND J3 SHORT) P3-P2-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.

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

http://www.stewartconnector.com

SHEET 1 OF 4

717.234.7512

DRAWING NO.

SI - 6003

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<u>RECEIVE</u>

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

100KHz TO 100MHz : 1.1 dB TYP

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: 1MHz TO 100MHz : 40 dB TYP

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

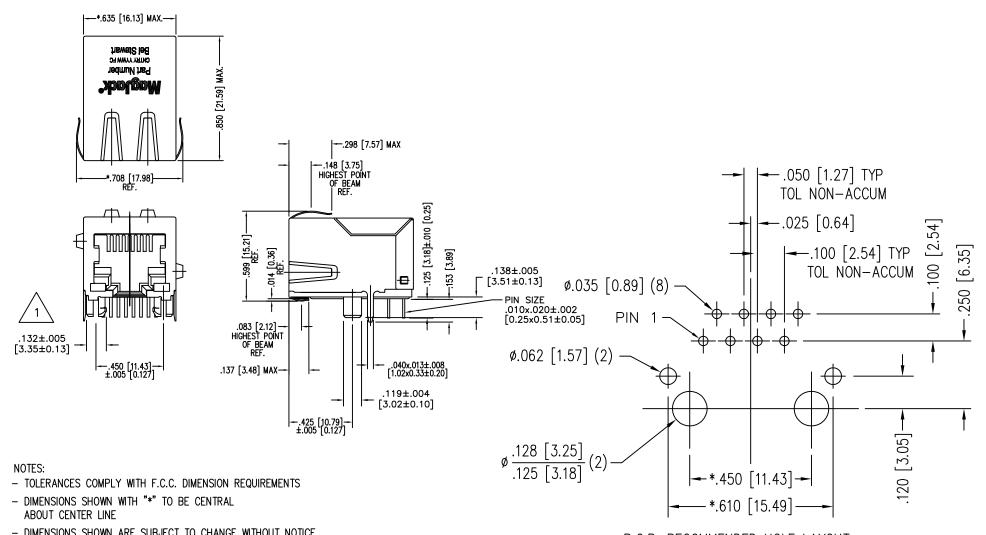
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EWART SHEET 2 OF 4

DRAWING NO.

SI-60033|<sup>rev.</sup>



- DIMENSIONS SHOWN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

P.C.B. RECOMMENDED HOLE LAYOUT SEEN FROM COMPONENT SIDE

NOT DIRECTLY MEASURED.

- STANDARD 50 MICRO-INCH SELECTIVE
- HIGH TEMPERATURE REFLOW COMPATABLE 230°C/90 SEC MAX.
- 50 MICRO-INCH SELECTIVE GOLD PLATING

CT640237

TOLERANCE ±.003 [0.08] UNLESS OTHERWISE SPECIFIED

**Bel Stewart Connector** 11118 Susquehanna Trail, South

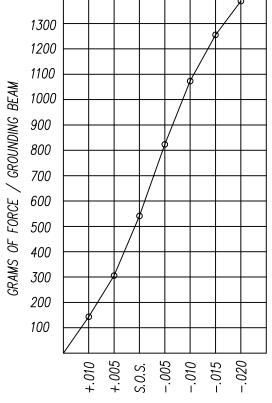
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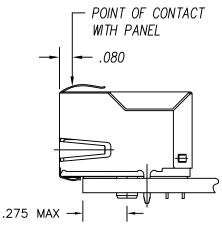
SHEET 3 OF 4 DRAWING NO.

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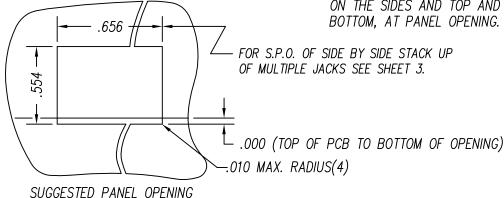
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PANEL GROUNDING BEAM DEFLECTION S.O.S. = SUGGESTED OPENING SIZE



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 .013 ON THE BOTTOM, AT PANEL OPENING.



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