

#### ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO:  $\begin{matrix} (P6-P5-P4) : (J6-J3) \\ (P3-P2-P1) : (J2-J1) \end{matrix}$  : 1CT : 1CT  $\pm$  3%  
: 1CT : 1CT  $\pm$  3%
- 2.0 INDUCTANCE:  $\begin{matrix} (P6-P4) \\ (P3-P1) \end{matrix}$  : 350uH MIN. @ 0.1V  
: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE:  $\begin{matrix} P6-P4 \text{ (WITH } J6 \text{ AND } J3 \text{ SHORT)} \\ P3-P1 \text{ (WITH } J2 \text{ AND } J1 \text{ SHORT)} \end{matrix}$  : 0.3 uH MAX. @ 1MHz  
: 0.3 uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE:  $\begin{matrix} (P6,P5,P4) \text{ TO } (J6,J3) \\ (P3,P2,P1) \text{ TO } (J2,J1) \end{matrix}$  : 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.

RECEIVE

6.0 RETURN LOSS: 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

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

**MagJack®**

<http://www.stewartconnector.com>

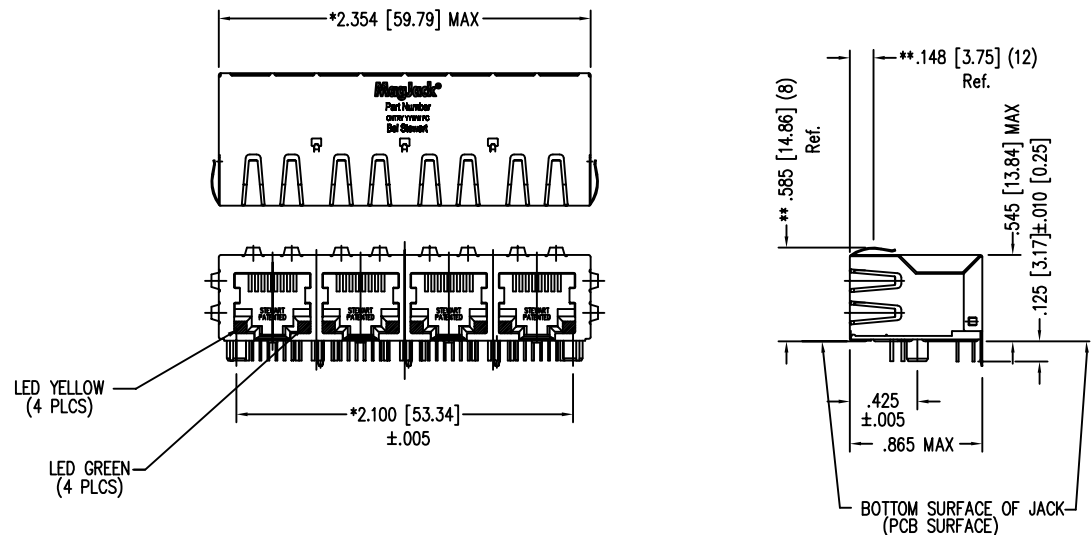
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DRAWING NO.

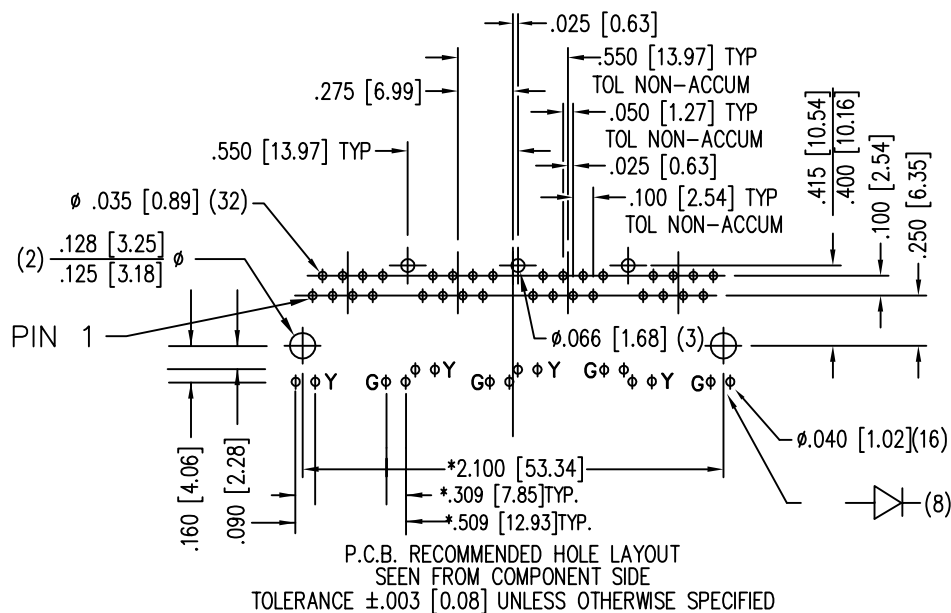
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REV.  
02



#### 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
- DIMENSIONS SHOWN ARE SUBJECT TO CHANGE WITHOUT NOTICE
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED. SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- STANDARD 50 MICRO-INCH SELECTIVE



#### LED SPECIFICATIONS

	YELLOW	GREEN
FORWARD VOLTAGE(20mA) :	2.2v (MAX)	2.5v (MAX)
FORWARD VOLTAGE(20mA) :	2.1v (TYP)	2.2v (TYP)
POWER DISSIPATION :	105mW	105mW
WAVE LENGTH:	590nm	565nm
INTENSITY @ 10mA :	2-8 MCD	8-32 MCD

CT720091/CT720074/24-0028

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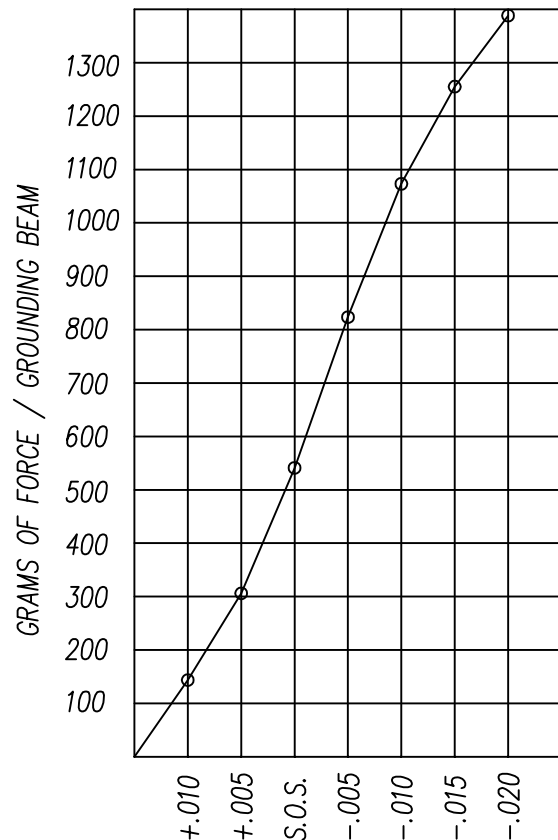
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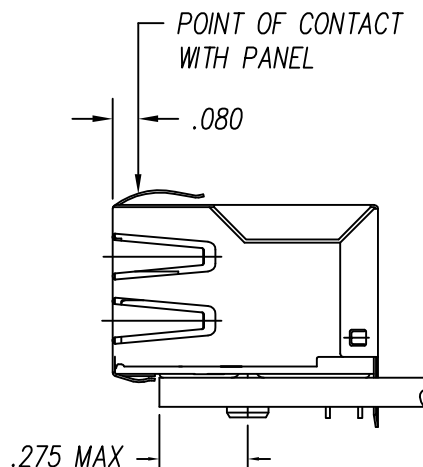
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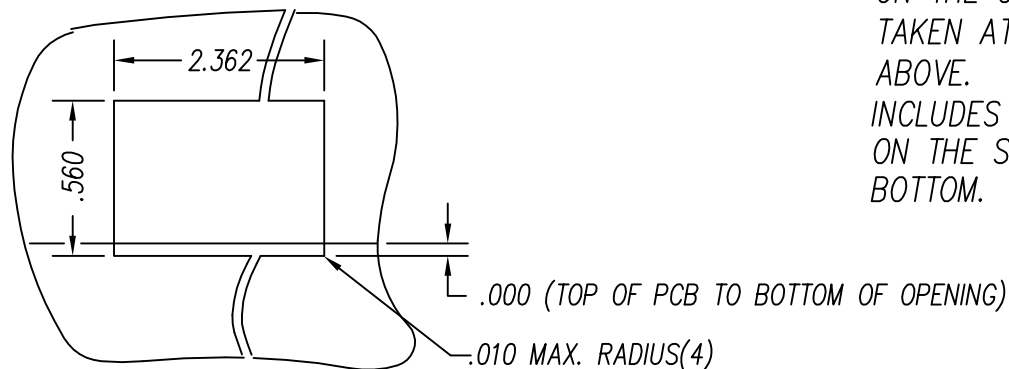
REV.  
06



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 .005 ON THE BOTTOM.



SUGGESTED PANEL OPENING

CT720035X1/24-001701

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