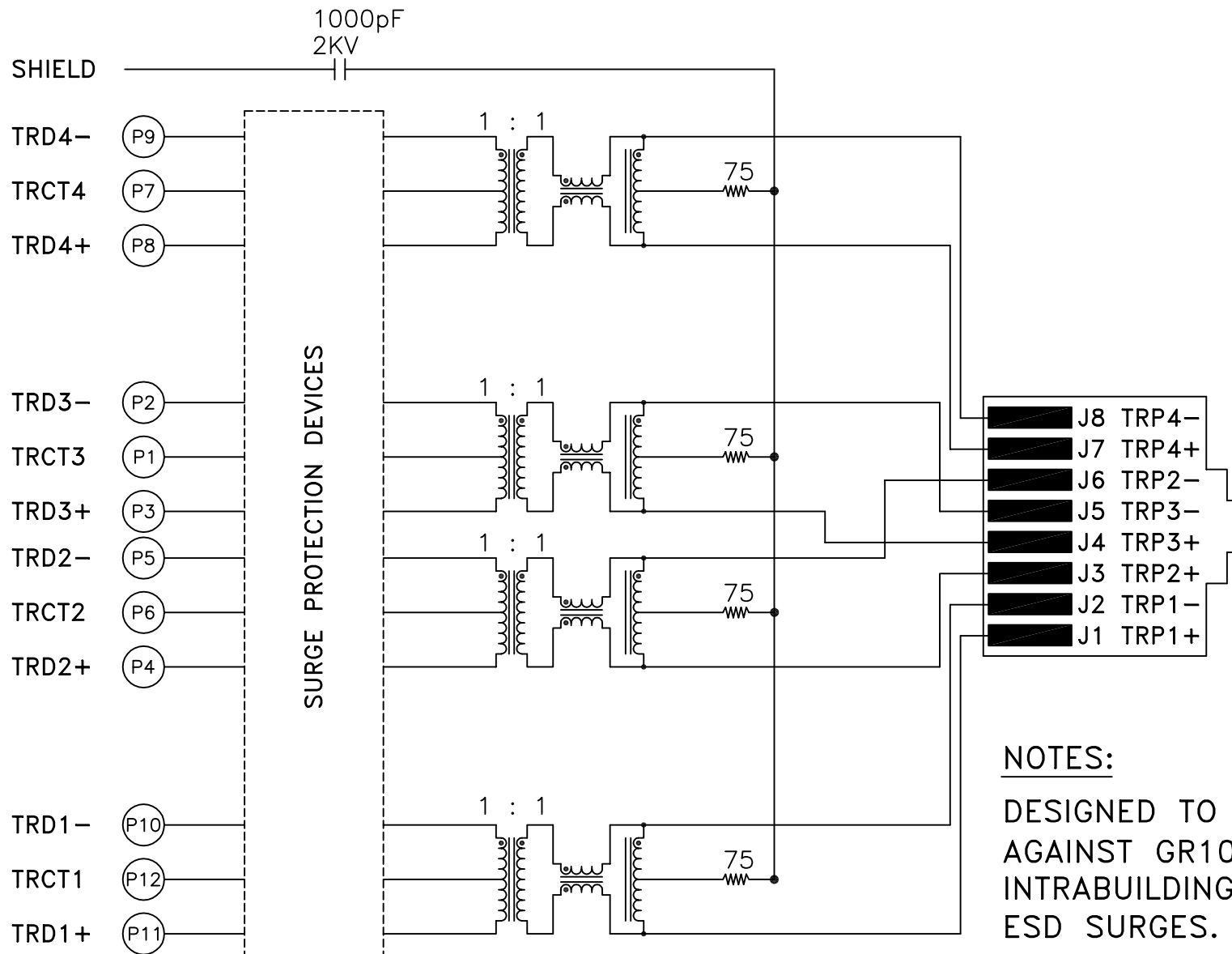




NOTES:

DESIGNED TO PROTECT
AGAINST GR1089
INTRABUILDING AND
ESD SURGES.

ELECTRICAL SPECIFICATIONS:

1.0 TURNS RATIO: (P10-P11) :	(J2-J1)	: 1 : 1 ±2%
(P5-P4) :	(J6-J3)	: 1 : 1 ±2%
(P2-P3) :	(J5-J4)	: 1 : 1 ±2%
(P9-P8) :	(J8-J7)	: 1 : 1 ±2%

Bel Stewart Connector
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Glen Rock, Pa 17327-9199
717.234.7512

MagJack®

<http://www.stewartconnector.com>

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SHEET
1 OF 4

DRAWING NO.

SI-53023

REV. 03

2.0 DC RESISTANCE	(J8-J7); (J6-J3); (J5-J4); (J2-J1)	: 1.2 OHMS MAX.
3.0 INDUCTANCE:	(P2-P3) ; (P5-P4) (P10-P11) ; (P9-P8)	: 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS : 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS
4.0 RETURN LOSS:	1MHz TO 30MHz 30MHz TO 60MHz 60MHz TO 80MHz 80MHz TO 100MHz	: -19dB MIN. : -13dB MIN. : -12dB MIN. : -10dB MIN.
5.0 INSERTION LOSS:	RS=RL=100 ohms 100KHz TO 125MHz	: -1.1 dB TYP
6.0 CROSS TALK:	1-100 MHz	: $-[33-20 \text{ LOG } (\frac{F}{50 \text{ MHz}})] \text{ MIN.}$
7.0 COMMON TO COMMON MODE ATTENUATION:	1MHz TO 100MHz	: -35dB TYP
8.0 RISE TIME:	RS=100 OHMS AND RL = 100 OHMS OUTPUT VOLTAGE = 1 V peak PULSE WIDTH= 112nS	: 3.0 nS MAX : 3.0 nS MAX
9.0 DIELECTRIC WITHSTAND:	(J1,J2) TO (P11,P10) ; (J4,J5) TO (P3-P2) (J3,J6) TO (P4,P5) ; (J7,J8) TO (P8, P9)	: 1500 VAC : 1500 VAC

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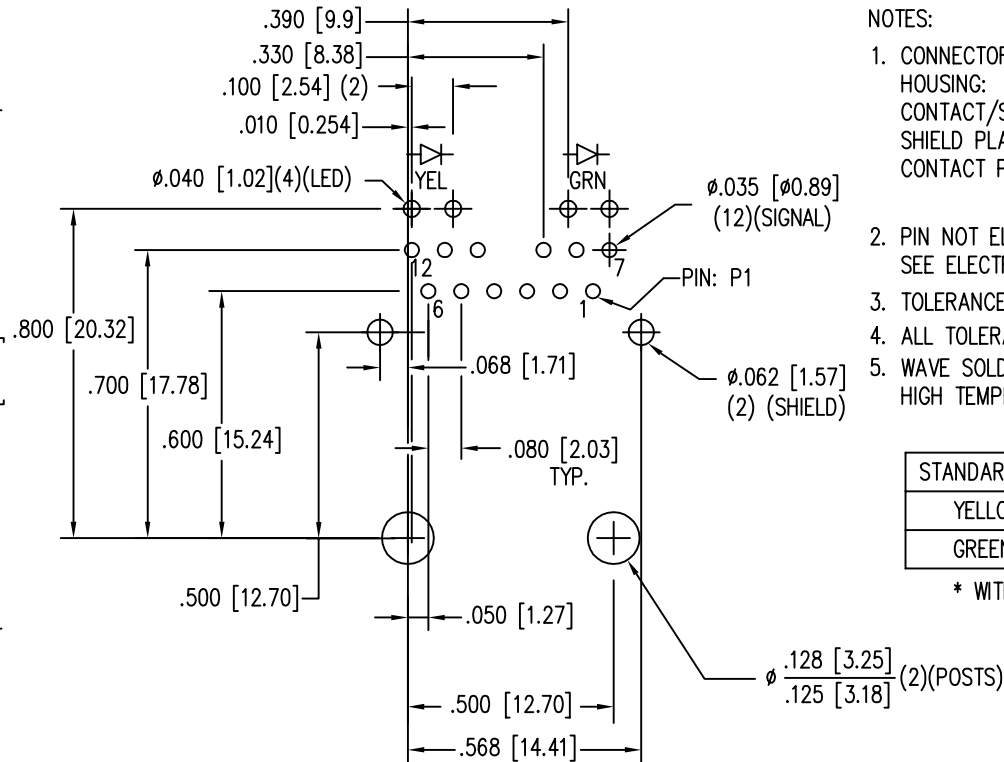
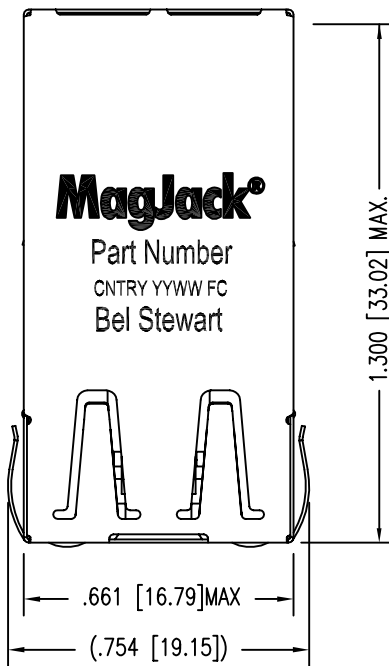
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SHEET
2 OF 4

DRAWING NO.

SI-53023 REV. 03

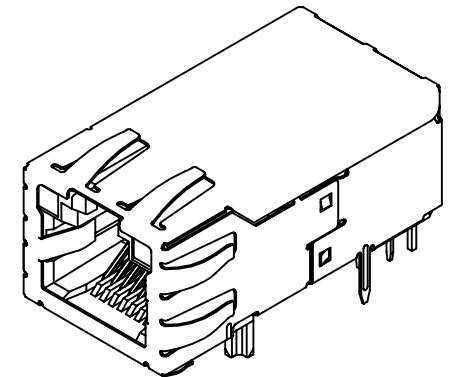
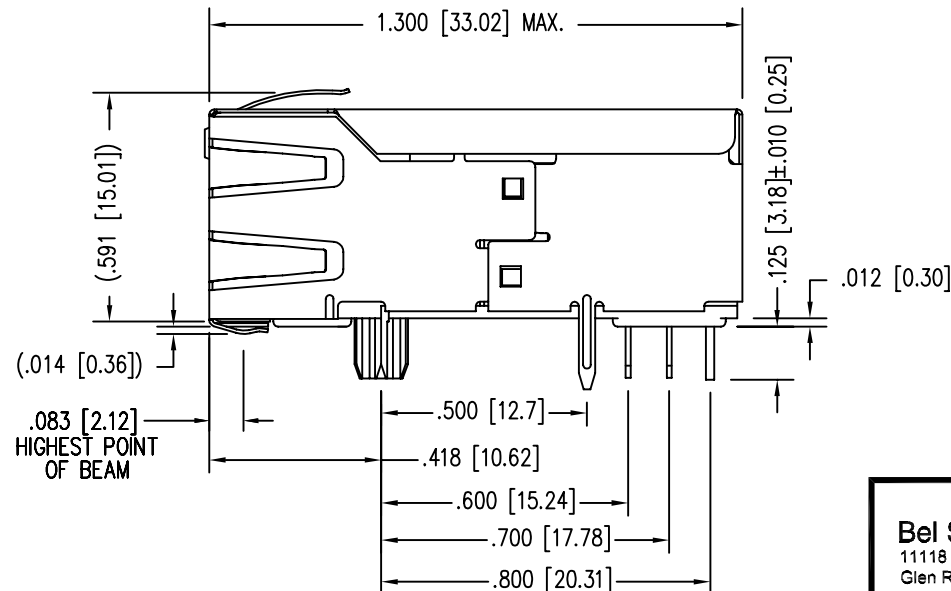
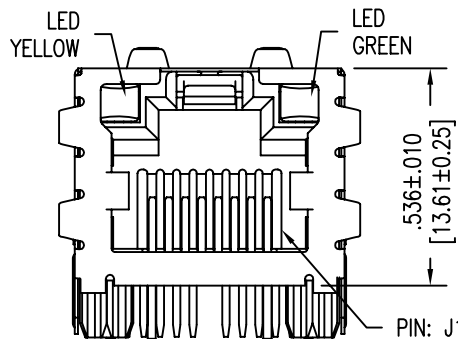


NOTES:

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 ± 0.005 [0.13]
5. WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.
HIGH TEMPERATURE REFLOW COMPATIBLE - 230°C/90 SEC MAX.

STANDARD LED	WAVELENGTH	* Forward V (MAX)	(TYP)
YELLOW	590 nm	2.5 V	2.1 V
GREEN	565 nm	2.5 V	2.2 V

* WITH A FORWARD CURRENT OF 20 mA



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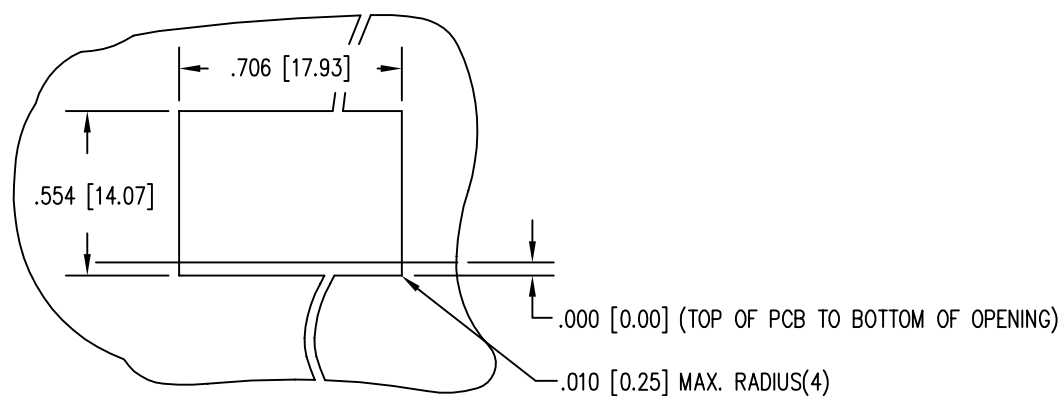
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SHEET
3 OF 4

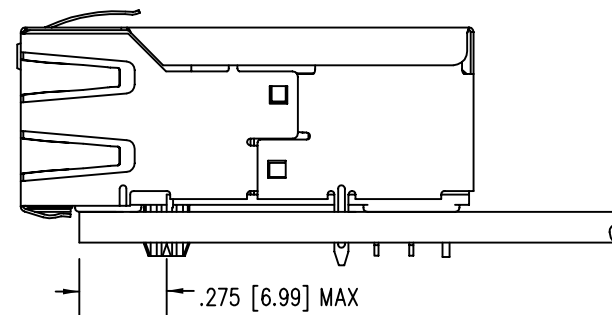
DRAWING NO.

SI-53023

REV. X



SUGGESTED PANEL OPENING



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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