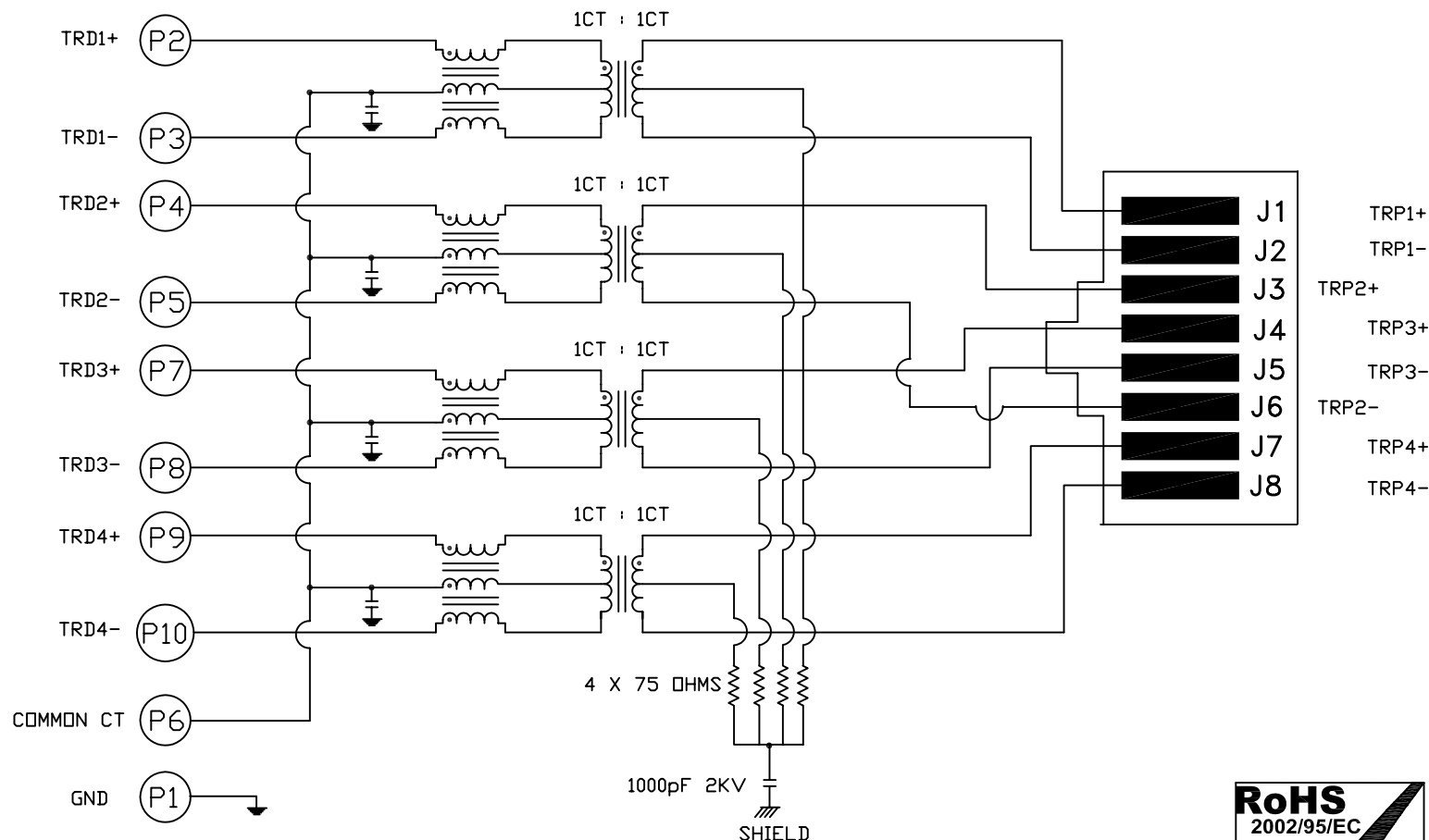




ELECTRICAL SPECIFICATIONS:

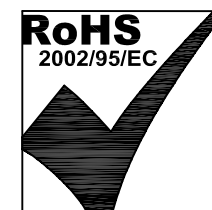
DESIGNED FOR OPERATION FROM -40 TO 85 degrees C

1.0 INDUCTANCE:

(P2-P3)	: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P4-P5)	: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P7-P8)	: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P9-P10)	: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias

2.0 TURNS RATIO:

(P2-P3) :	(J1-J2)	: 1CT : 1CT $\pm$ 2%
(P4-P5) :	(J3-J6)	: 1CT : 1CT $\pm$ 2%
(P7-P8) :	(J4-J5)	: 1CT : 1CT $\pm$ 2%
(P9-P10) :	(J7-J8)	: 1CT : 1CT $\pm$ 2%



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

MagJack®

<http://www.stewartconnector.com>

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SHEET
1 OF 4

DRAWING NO.
SI-51011-F

REV.
X1

3.0 RETURN LOSS: 100 Ω M REF.	
500kHz TO 40MHz	: -18dB MIN.
40MHz TO 100MHz	: -12+20LOG(f/80MHz) MIN.
4.0 INSERTION LOSS: RS=RL=100 Ω MS	
100kHz TO 100MHz	: 1.2dB MAX.
5.0 CROSS TALK: Ch1-Ch2, Ch1-Ch3, Ch1-Ch4, Ch2-Ch3, Ch2-Ch4, Ch3-Ch4	
1MHz TO 30MHz	: -35dB MIN.
30MHz TO 80MHz	: -24dB MIN.
80MHz TO 100MHz	: -25dB MIN.
6.0 CM TO CM REJECTION:	
100kHz TO 100MHz	: -30dB MIN.
7.0 CM TO DM REJECTION:	
100kHz TO 100MHz	: -35dB MIN.
8.0 VOLTAGE WITHSTAND:	
(J1, J2) TO (P2, P3)	: 1500 Vrms
(J3, J6) TO (P4, P5)	: 1500 Vrms
(J4, J5) TO (P7, P8)	: 1500 Vrms
(J7, J8) TO (P9, P10)	: 1500 Vrms

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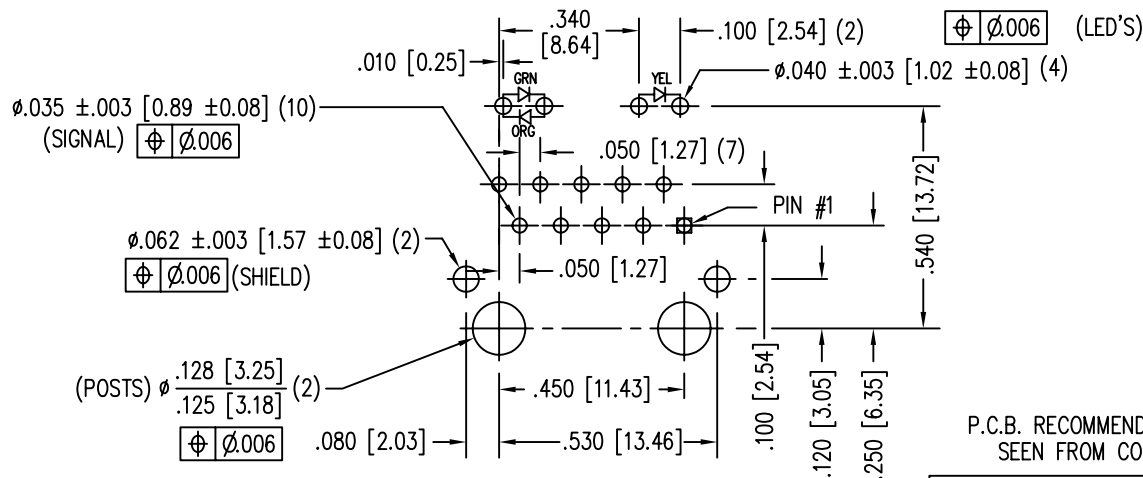
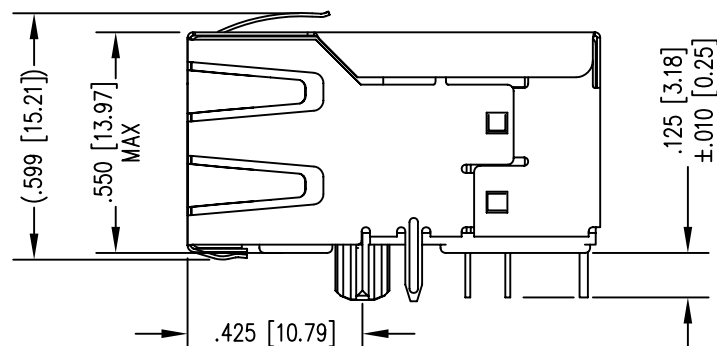
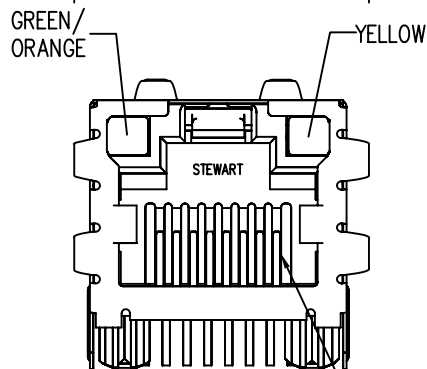
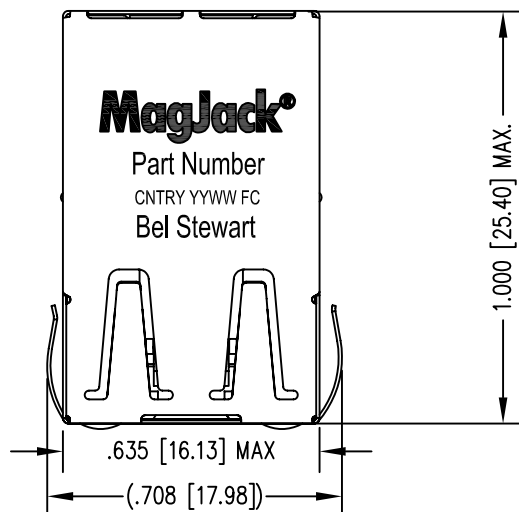
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X1



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

ALL CENTERLINE DIMENSIONS ARE BASIC.

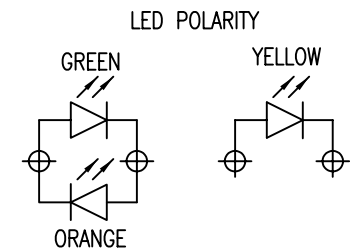
NOTES:

- 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.
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 0.005 [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR
10 SECONDS MAX.



LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	* (TYP)
YELLOW	590 nm	2.5 V	2.1 V
ORANGE	610 nm	2.5 V	2.1 V
GREEN	565 nm	2.5 V	2.2 V

*WITH A FORWARD CURRENT OF 20 mA (TYP)



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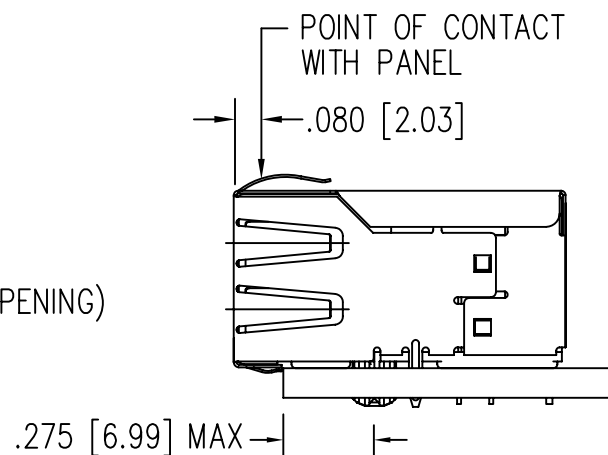
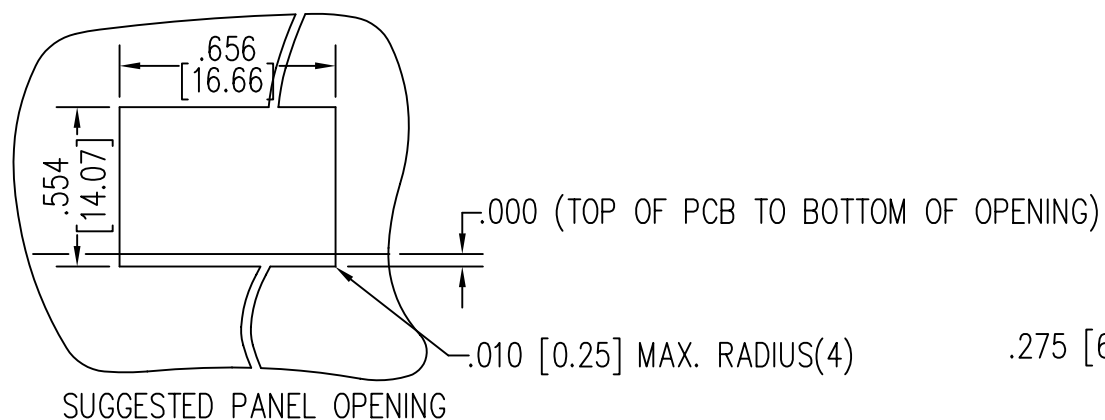
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DRAWING NO.
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01



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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SHEET
4 OF 4

DRAWING NO.
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01