

ELECTRICAL SPECIFICATIONS:

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 ± 2%
(P4-P5) :	(J3-J6)	: 1CT : 1CT ± 2%
(P7-P8) :	(J4-J5)	: 1CT : 1CT ± 2%
(P9-P10) :	(J7-J8)	: 1CT : 1CT ± 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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3.0 RETURN LOSS: 100 OHM REF.
500kHz TO 40MHz : -18dB MIN.
40MHz TO 100MHz : -12+20LOG(f/80MHZ) MIN.

4.0 INSERTION LOSS: RS=RL=100 OHMS
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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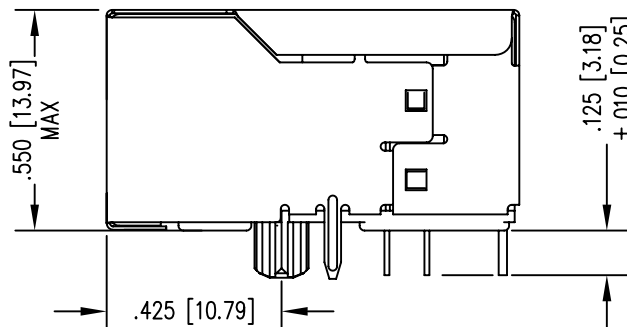
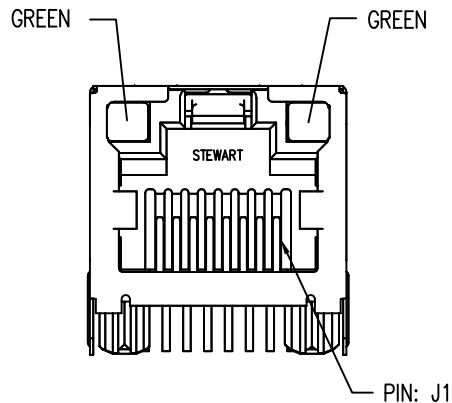
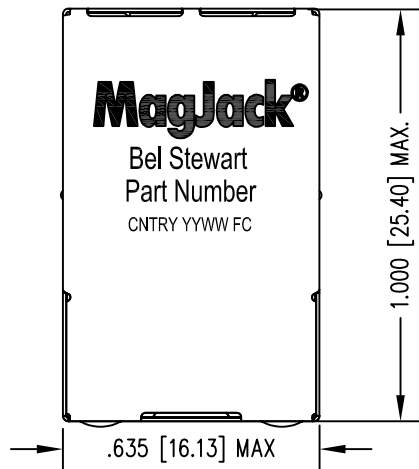
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SHEET
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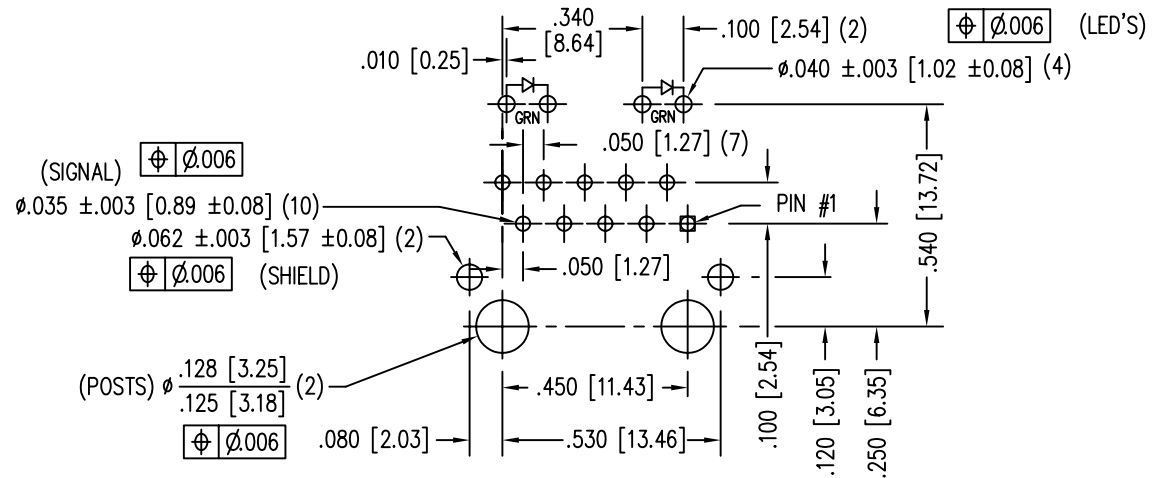
DRAWING NO.
SI-51016-F

REV.
X0



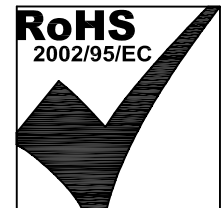
LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	* (TYP)
GREEN	565 nm	2.5 V	2.2 V

*WITH A FORWARD CURRENT OF 20 mA (TYP)



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 ±.005 [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR
10 SECONDS MAX.

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DRAWING NO.
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REV. X1