

NOTES

1.0 COMPLIES WITH THE EUROPEAN  
DIRECTIVE 2002/95/EC CALLING FOR  
THE ELIMINATION OF LEAD AND OTHER  
HAZARDOUS SUBSTANCES FROM  
ELECTRONICS PRODUCTS

2.0 UNUSED PIN 7 IS OMITTED

ELECTRICAL SPECIFICATIONS:

OPERATING TEMPERATURE RANGE:

: -40°C TO +85°C

1.0 TURNS RATIO: (P3-P5-P6) : (J3-J6)  
(P1-P4-P2) : (J1-J2)

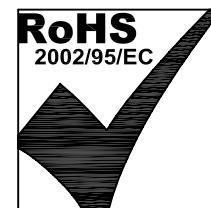
: 1CT : 1CT  $\pm$  3%  
: 1CT : 1CT  $\pm$  3%

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

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

3.0 DC RESISTANCE: (J6-J3)=(J2-J1)

: 1.2 ohms Max.



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-60144-F

REV. X2

RECEIVE

4.0 RETURN LOSS:

1MHz TO 30MHz : 18dB MIN.  
60MHz TO 80MHz : 12dB MIN.

8.0 INSERTION LOSS:

100KHz TO 100MHz : 1.1 dB TYP

10.0 CROSS TALK:

1MHz TO 100MHz : 40 dB TYP

11.0 COMMON TO COMMON MODE ATTENUATION:

30MHz TO 100MHz : 35dB TYP

9.0 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

7.0 DIELECTRIC WITHSTAND: {J1, J2} TO {P1, P2} : 1500 VAC  
{J3, J6} TO {P3, P6} : 1500 VAC

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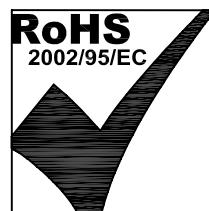
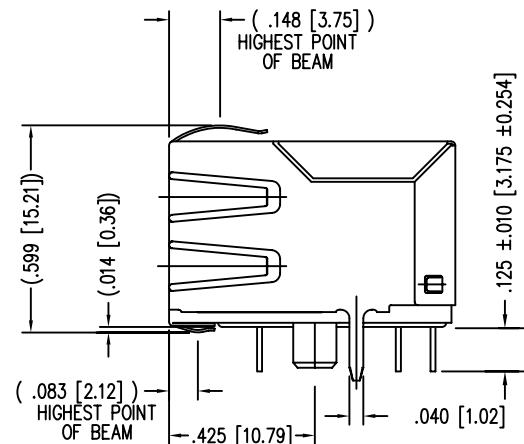
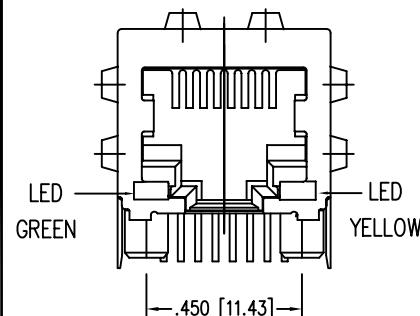
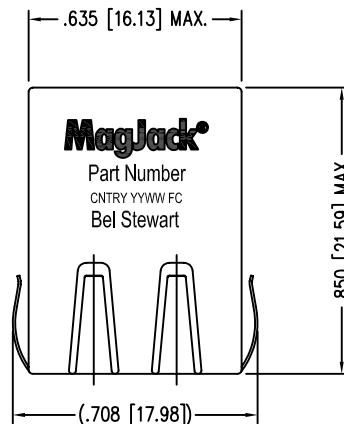
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SHEET  
2 OF 4

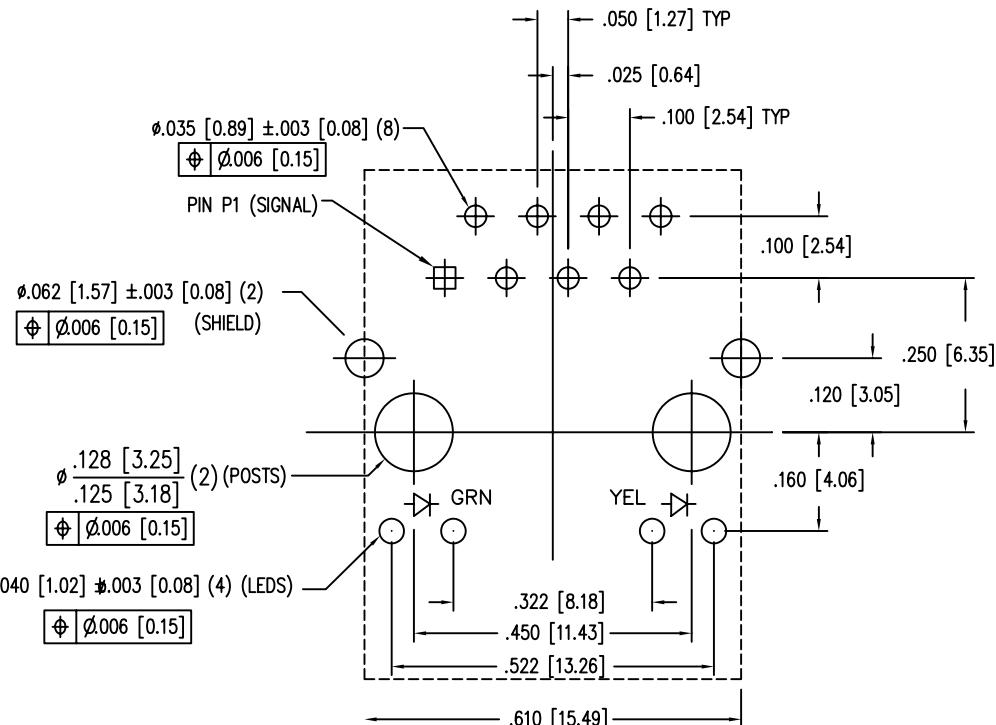
DRAWING NO.

SI-60144-F REV. X1



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

\*WITH A FORWARD CURRENT OF 20 mA (TYP)



ALL CENTERLINE DIMENSIONS ARE BASIC.

NOTES:

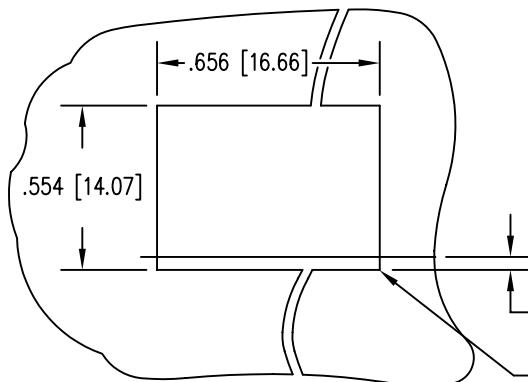
1. CONNECTOR MATERIALS:  
HOUSING: THERMOPLASTIC UL94 V-0  
CONTACT/SHIELD: COPPER ALLOY  
SHIELD PLATING: NICKEL OR TIN  
CONTACT PLATING: SELECTIVE GOLD,  
50 MICRO-INCHES MIN. IN CONTACT AREA.
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.  
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±.005 [0.13]
5. REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR  
10 SECONDS MAX.

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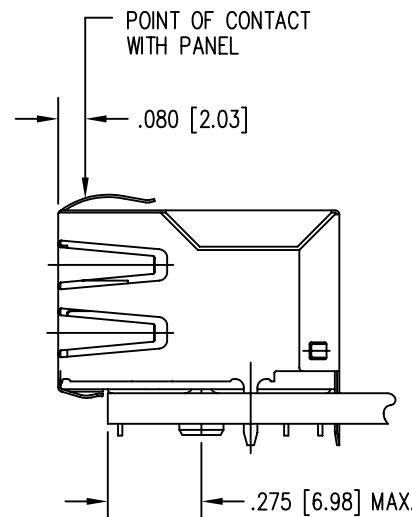
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SUGGESTED PANEL OPENING



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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