

ELECTRICAL SPECIFICATIONS:

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| 1.0 TURNS RATIO: {P6-P5-P4} : {J6-J3} | : 1CT : 1 ± 3% |
| {P3-P2-P1} : {J2-J1} | : 1CT : 1 ± 3% |
| 2.0 INDUCTANCE: {P6-P4} | : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias |
| {P3-P1} | : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias |
| 3.0 LEAKAGE INDUCTANCE: P6-P4 {WITH J6 AND J3 SHORT} | : 0.3 MAX. @ 1MHz |
| P3-P1 {WITH J2 AND J1 SHORT} | : 0.3 MAX. @ 1MHz |
| 4.0 INTERWINDING CAPACITANCE: {P6,P5,P4} TO {J6,J3} | : 30pf MAX @ 1MHz |
| {P3,P2,P1} TO {J2,J1} | : 30pf MAX. @ 1MHz |
| 5.0 DC RESISTANCE: {J1-J2} | : 1.2 ohms Max. |
| {P6-P4} | : 1.2 ohms Max. |

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.



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

MagJack[®]
<http://www.stewartconnector.com>

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RECEIVE

- 6.0 RETURN LOSS: 1MHz TO 30MHz : 18dB MIN.
60MHz TO 80MHz : 12dB MIN.
- 7.0 DIELECTRIC WITHSTAND: {J1, J2} TO {P1, P2} : 1500 VAC
{J3, J6} TO {P8,P7} : 1500 VAC
- 8.0 INSERTION LOSS: RS=RL=100 ohms : 1.1 dB TYP
100KHz TO 100MHz
- 9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS : 3.0 nS MAX
OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX
PULSE WIDTH= 112nS
- 10.0 GROSS TALK: 1MHz TO 100MHz : 35 dB TYP
- 11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz : 35dB TYP

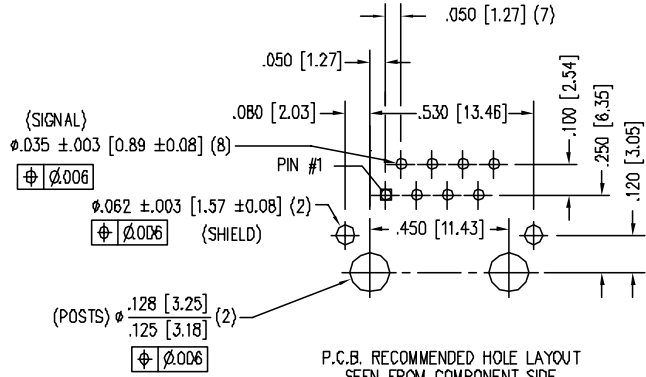
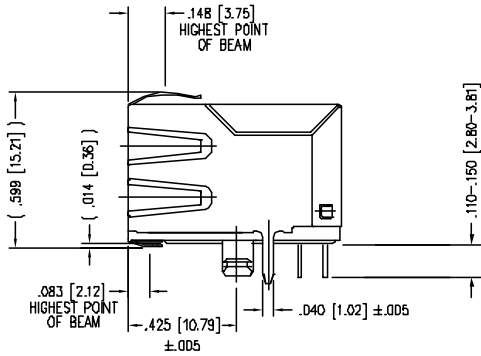
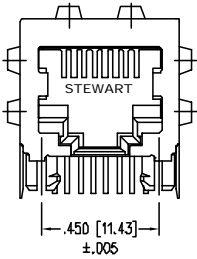
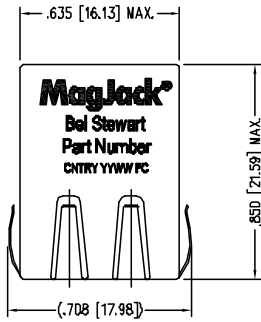
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REV. 02



P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE
ALL CENTERLINE DIMENSIONS ARE BASIC.



NOTES:

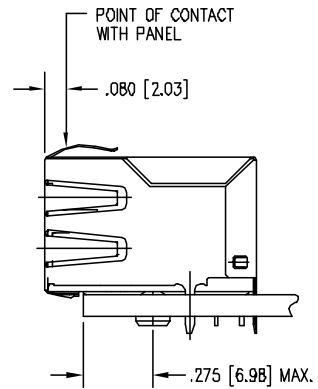
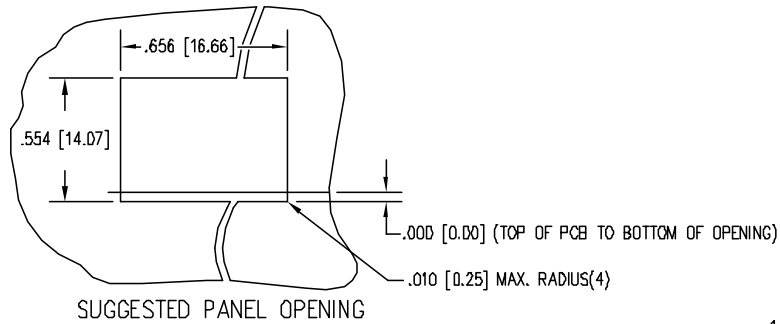
- CONNECTOR MATERIALS:
HOUSING: THERMOPLASTIC UL94 V-0
CONTACT/SHIELD: COPPER ALLOY
SHIELD PLATING: NICKEL OR TIN
CONTACT PLATING: SELECTIVE GOLD,
50 MICRO-INCHES MIN. IN CONTACT AREA.
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±.005 [0.13]
- WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.

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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 ± 0.005 [0.13]

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