

**ELECTRICAL SPECIFICATIONS:**

- |     |                           |                              |  |
|-----|---------------------------|------------------------------|--|
| 1.0 | URNS RATIO:               | (P3-P7-P6) : (J3-J6)         | : 1CT : 1CT ±3%                          |
|     |                           | (P1-P4-P5-P2) : (J1-J2)      | : 1CT : 1CT ±3%                          |
| 2.0 | INDUCTANCE:               | (P3-P6)                      | : 400uH MIN. @ 0.1V, 100KHz, 8mA DC Bias |
|     |                           | (J1-J2)                      | : 400uH MIN. @ 0.1V, 100KHz, 8mA DC Bias |
| 3.0 | LEAKAGE INDUCTANCE:       | P3-P6 (WITH J6 AND J3 SHORT) | : 0.3uH MAX. @ 1MHz                      |
|     |                           | P2-P1 (WITH J2 AND J1 SHORT) | : 0.3uH MAX. @ 1MHz                      |
| 4.0 | INTERWINDING CAPACITANCE: | (P3,P6,P7) TO (J6,J3)        | : 30pf MAX @ 1MHz                        |
|     |                           | (P2,P4,P5,P1) TO (J2,J1)     | : 30pf MAX @ 1MHz                        |
| 5.0 | 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

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<http://www.stewartconnector.com>

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- 6.0 RETURN LOSS: (J3-J6)=100 OHMS AND (P1-P2)=100 OHM REF.  
 1MHz TO 30MHz : -20dB MIN.  
 30MHz TO 60MHz : -(19-20LOG (f/30MHz)) MIN  
 80MHz : -12dB MIN.
- NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (P6-P3).
- 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P2) : 1500 RMS  
 (J3, J6) TO (P3,P6) : 1500 RMS
- 8.0 INSERTION LOSS: RS=RL=100 ohms  
 1MHz TO 65MHz : -1 dB MAX
- 9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS  
 OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX  
 PULSE WIDTH= 112nS : 3.0 nS MAX
- 10.0 CROSS TALK: 1-65 MHz : -35 dB MIN.
- 11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : -30 dB MIN  
 100MHz TO 130MHz : -20 dB MIN

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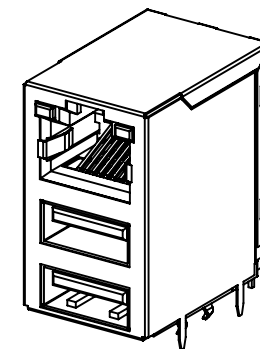
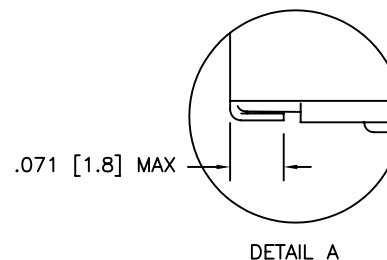
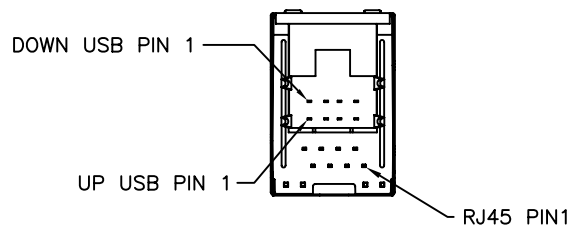
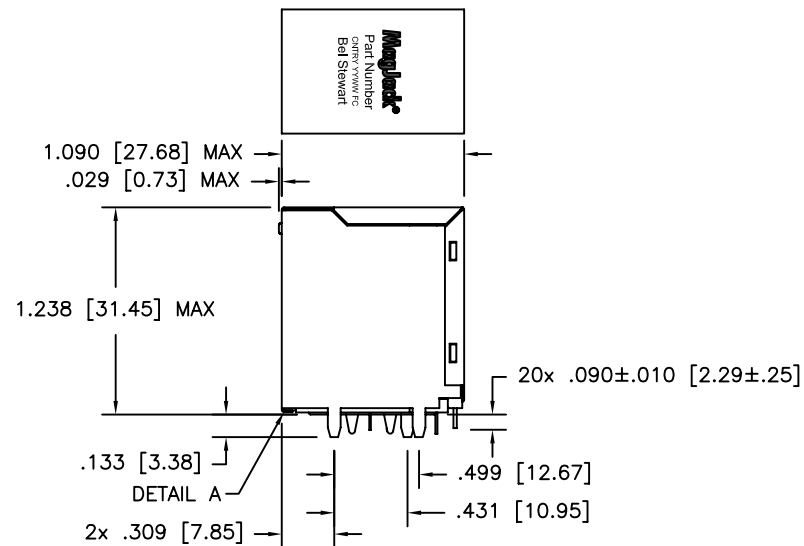
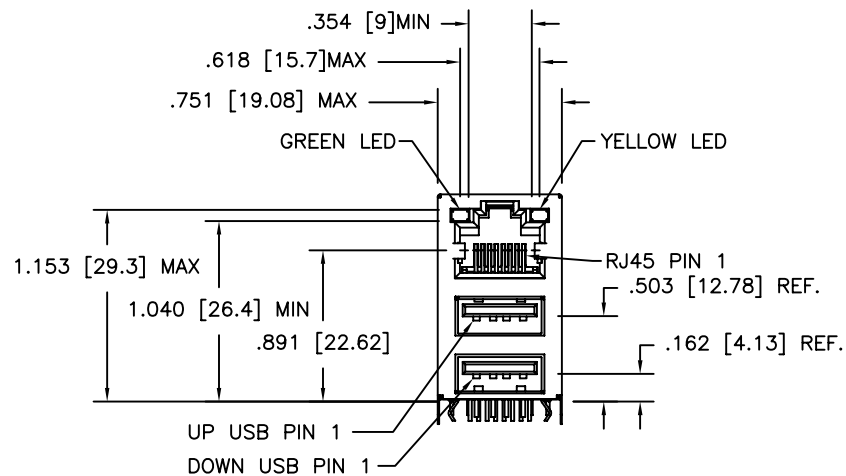
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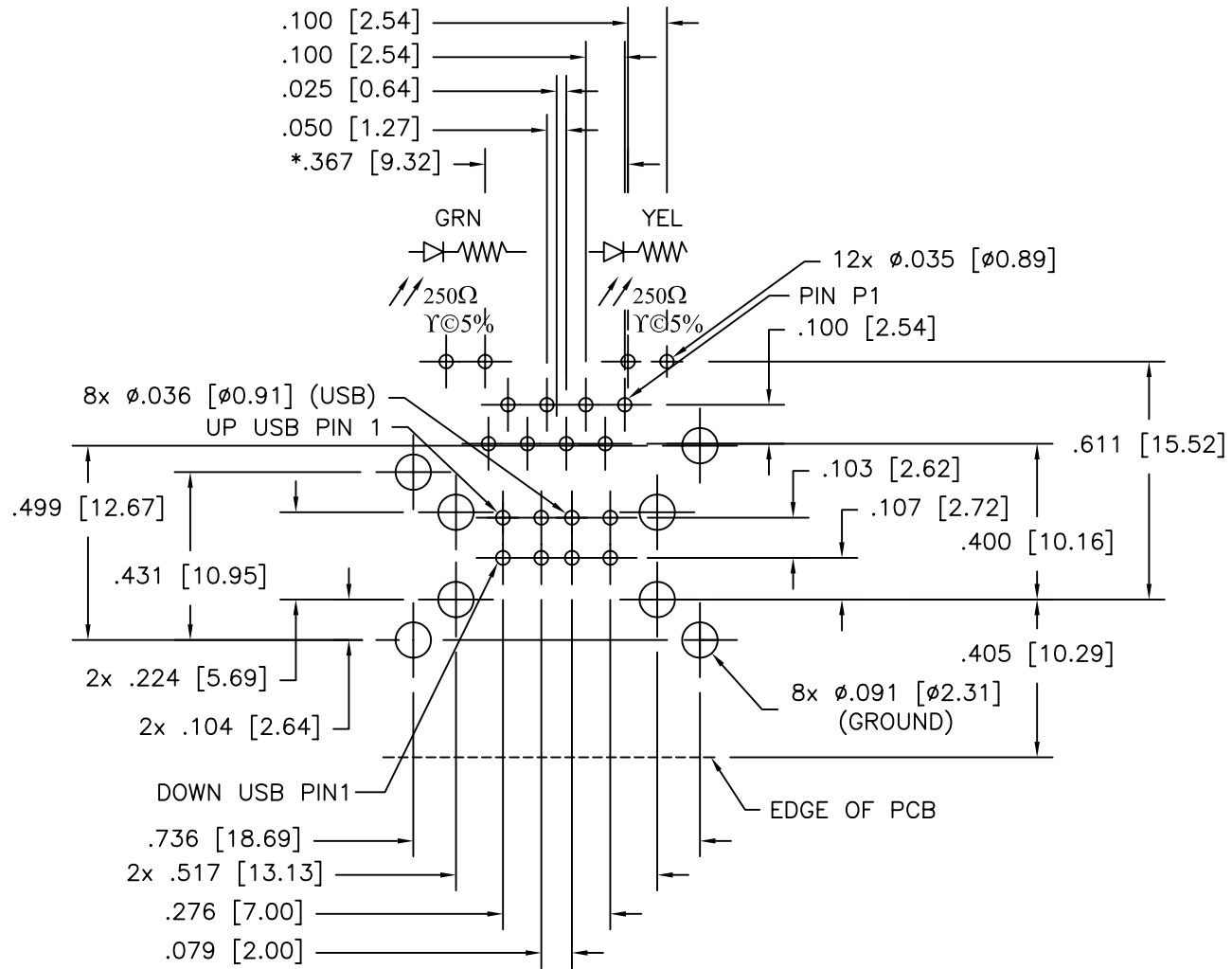


NOTES:

- 1.0 TOLERANCE COMPLY WITH FCC DIMENSION REQUIREMENTS.
- 2.0 PIN NOT ELECTRICALLY CONNECTED MAY BE OMITTED. SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- 3.0 MATERIAL:  
 PLASTIC: UL94V-0  
 TERMINAL USB: PLATING PER USB SPEC 2.0  
 TERMINAL RJ45: 50 MICROINCHES Au OVER 50 MICROINCHES Ni OVER PHOSBRONZE  
 SHIELD, BOTH USB AND RJ45: BRASS PLATED W/EITHER Ni OR TIN-LEAD
- 4.0 GENERAL TOLERANCE: ±.005 [.127]
- 5.0 INSERTION FORCE RJ45: 9.0 lbs MAX  
 INSERTION FORCE USB: 7.7 lbs MAX
- 6.0 WITHDRAW FORCE RJ45: 2.9 lbs MIN  
 WITHDRAW FORCE USB: 2.2 lbs MIN
- 7.0 DURABILITY FORCE RJ45: 1000 INSERTIONS  
 DURABILITY FORCE USB: 1500 INSERTIONS

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PC BOARD LAYOUT COMPONENT SIDE SHOWN  
 TOLERANCE: ±.003 [.08] UNLESS OTHERWISE SPECIFIED

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