

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



ELECTRICAL CHARACTERISTICS @ 25°C

OPERATING TEMPERATURE RANGE: -40° C TO 85° C

CURRENT CARRYING CAPABILITY ON UNUSED PAIRS: 3A MAX P9 & P10
1.5A MAX J4, J5, J7, & J8

- 1.0 TURNS RATIO:

(P2-P3) : (J1-J2) : 1CT : 1CT ± 3%
(P4-P7) : (J3-J6) : 1CT : 1CT ± 3%
- 2.0 INDUCTANCE:

(P2-P3) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P4-P7) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 DC RESISTANCE:

(P2-P3); (P4-P7) : 1.2 OHMS
(J1-J2); (J3-J6) : 1.2 OHMS
- 4.0 RETURN LOSS: (P2-P3)=100 OHMS REF. AND (P4-P7)=100 OHM REF.

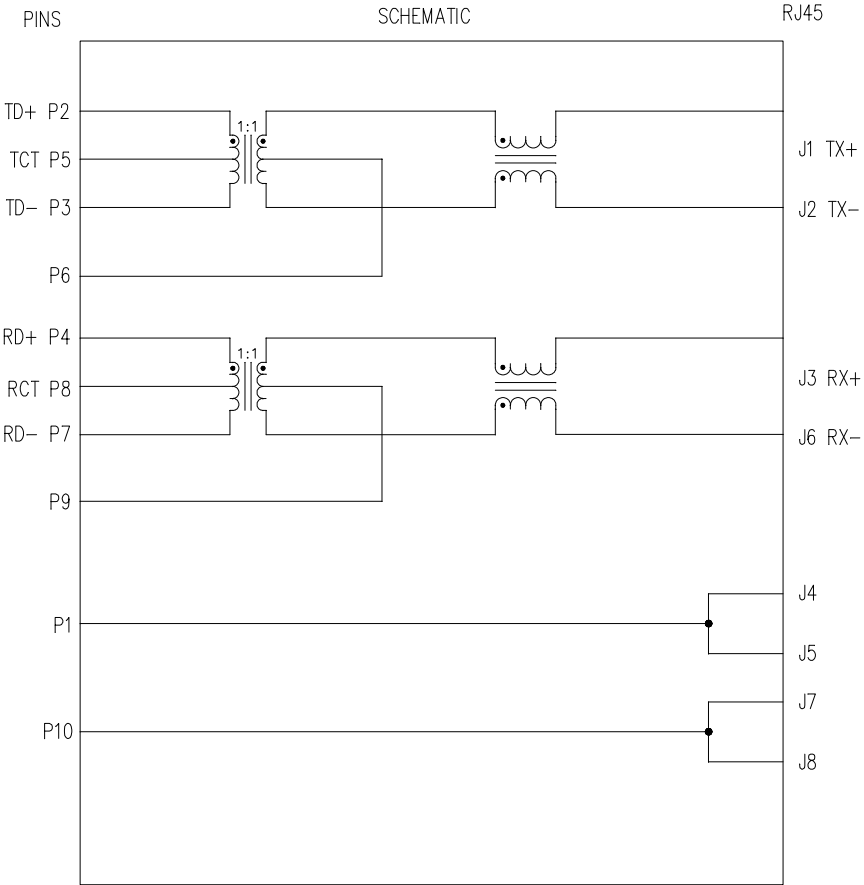
1MHz TO 30MHz : 18dB MIN.
31MHz TO 80MHz : 12dB MIN.
RS & RL =100 ohms
1MHz TO 100MHz : 1.1 dB TYP
- 5.0 INSERTION LOSS:

1MHz - 100 MHz : 35 dB TYP
- 6.0 CROSS TALK:

1MHz - 100 MHz : 35 dB TYP
- 7.0 DIFFERENTIAL TO COMMON MODE ATTENUATION:

1MHz TO 100MHz : 40dB TYP
- 8.0 DIELECTRIC WITHSTAND:

(P2-P3) TO (J1-J2) : 1500 Vrms
(P4-P7) TO (J3-J6) : 1500 Vrms



NOTES

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

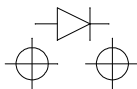
ORIGINATED BY Bain Liu	DATE 10-15-08	TITLE MagJack® 10/100BT VERTICAL, SHIELDED	PART NO. / DRAWING NO. SI-46012-F		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
			FILE NAME SI-46012-F.DWG		.X .XX .XXX	±0.005	UNIT : INCH [mm] SCALE : N/A	REV. : 01 SIZE : A4 PAGE : 1	

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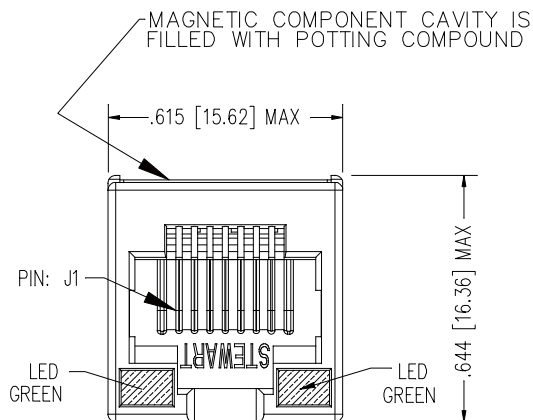
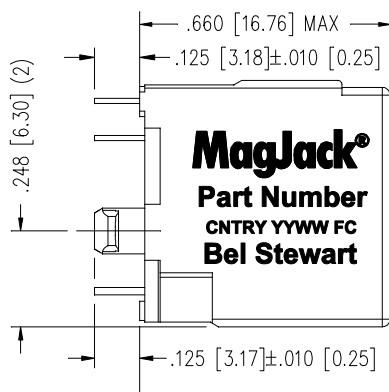
RoHS
2002/95/EC



LED POLARITY (ENLARGED VIEW)



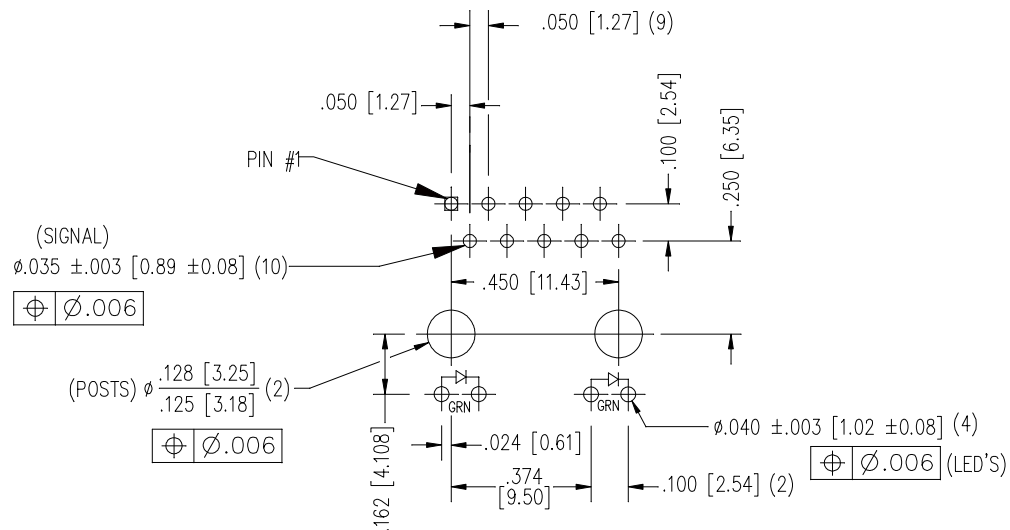
SINGLE COLOR LED



MAGNETIC COMPONENT CAVITY IS FILLED WITH POTTING COMPOUND

LED SPECIFICATIONS						
STANDARD LED	* FORWARD VOLTAGE (MAX)	* FORWARD VOLTAGE (TYP)	POWER DISSIPATION	WAVELENGTH	LUMINOUS INTENSITY @ 10mA	
GREEN DIFFUSED	2.6 V	2.25 V	105 mW	555 nm	MIN	MAX
					2 MCD	8 MCD

* WITH A FORWARD CURRENT OF 20 mA



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

ALL CENTERLINE DIMENSIONS ARE BASIC.

NOTES:

- CONNECTOR MATERIALS:
HOUSING: THERMOPLASTIC UL94 V-0
CONTACT: COPPER ALLOY
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]
- WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.

ORIGINATED BY	DATE
Bain Liu	10-15-08
DRAWN BY	DATE
LW Yuan	10-15-08

TITLE
MagJack®
10/100BT VERTICAL, SHIELDED

PART NO. / DRAWING NO.
SI-46012-F
FILE NAME
SI-46012-F.DWG

STANDARD DIM.
TOL. IN INCH
.X
.XX
.XXX
±0.005

[] METRIC DIM. AS REFERENCE
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COMPONENTS FOR A
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PLANET