



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 1

RX 1CT : 1

□CL @ 100kHz/100mVRMS

8mA DC BIAS 350μH MIN.

INS. LOSS

1MHz TO 100MHz -1.0 dB MAX

RET. LOSS (MIN)

1MHz-30MHz -18 dB

30MHz-60MHz -18+20LOG(F/30MHz) dB

60MHz-80MHz -12 dB

CROSS TALK (TX - RX)

500kHz-1MHz -70 dB MIN

10 MHz -50 dB MIN

30 MHz -45 dB MIN

50 MHz -40 dB MIN

100 MHz -35 dB MIN

CM TO CM REJ

100kHz-1MHz -70 dB MIN

10 MHz -47 dB MIN

30 MHz -42 dB MIN

60 MHz -37 dB MIN

100 MHz -30 dB MIN

CM TO DM REJ

100kHz-1MHz -70 dB MIN

10 MHz -60 dB MIN

30 MHz -50 dB MIN

60 MHz -45 dB MIN

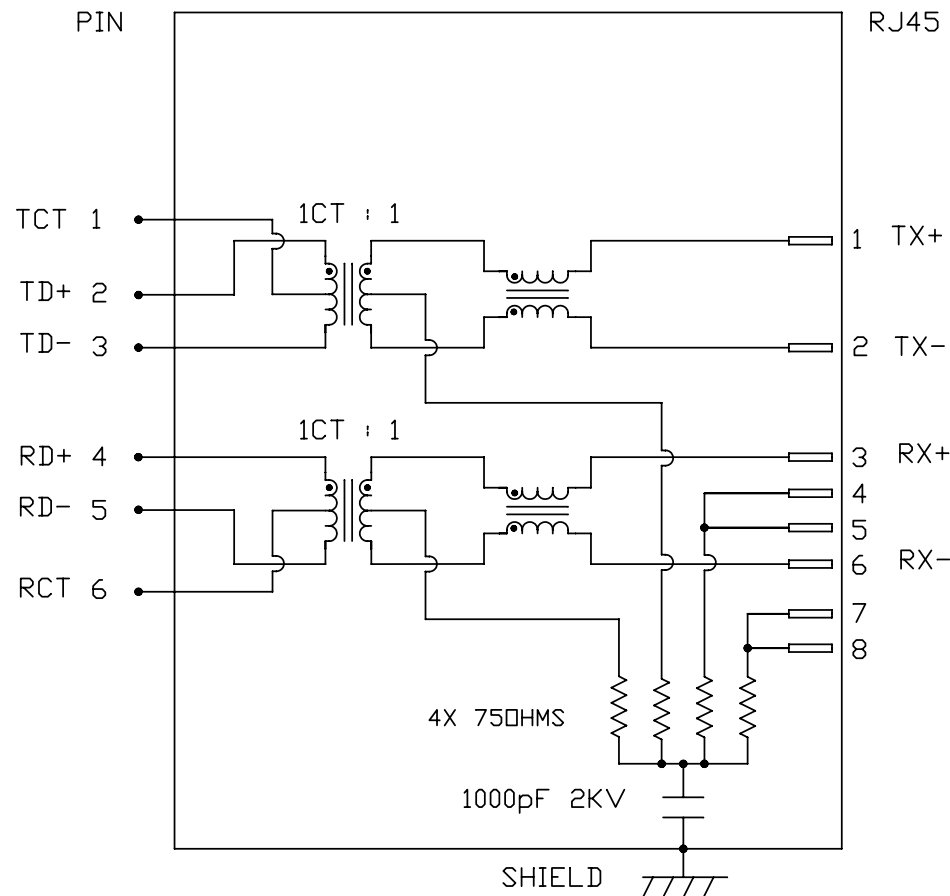
100 MHz -40 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms or 2250VDC

100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISOLATION REQUIREMENTS.

SCHEMATIC



ORIGINATED BY DATE
CHOW WANCHUNG 2012-08-03

DRAWN BY DATE
TAN QIGUANG 2012-08-03

TITLE SMD MagJack®
(4 Cores,MDIX,CM Termination)
S811-1X1T-06-F
PATENTED

PART NO. / DRAWING NO.
S8111X1T06-F

FILE NAME
S8111X1T06-F_E.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM. AS REFERENCE

UNIT : INCH [mm]

SCALE : N/A

⊕ ---

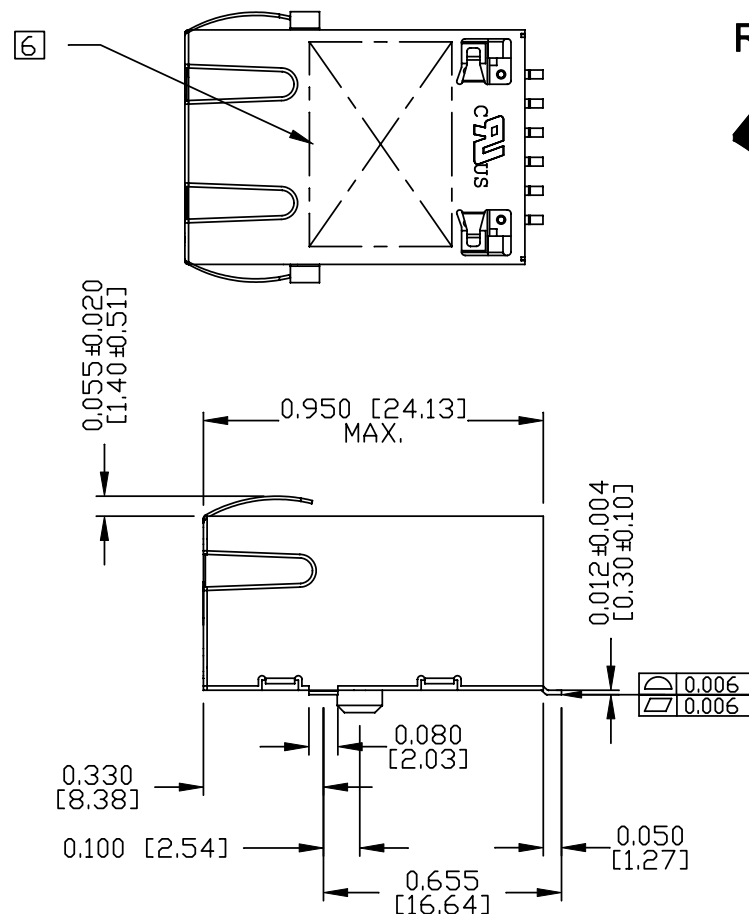
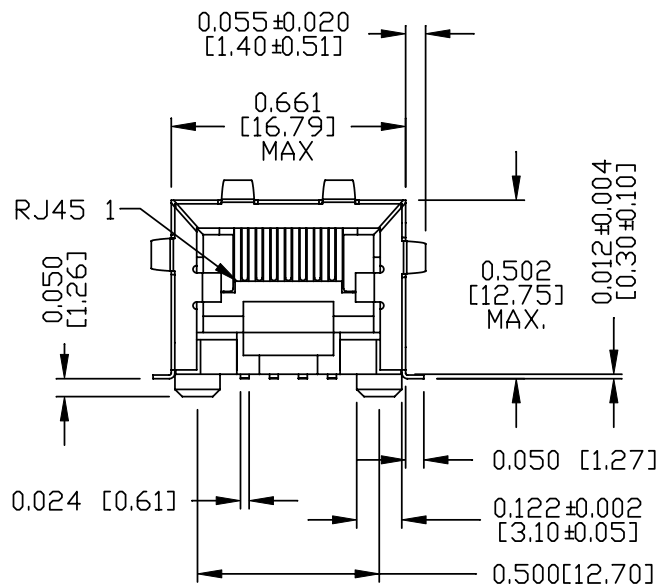
REV. : E

SIZE : A4

PAGE : 2

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.

RoHS



NOTES:

1. PLASTIC HOUSING: THERMOPLASTIC PA & THERMOSET PHENOLIC.
FLAMMABILITY RATING UL 94V-0
2. CONTACTS PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
3. PINS: TIN-COATED COPPER WIRE, 0.024 [0.6] X 0.012 [0.3] THK.
4. METAL SHIELD: NICKEL PLATED COPPER ALLOY.
5. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
6. MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER, DATE CODE AND PATENTED.

7. THE PRODUCT IS RoHS COMPLIANT.

8. THE PRODUCT IS PATENT PRODUCT. THE PATENT NUMBER IS U.S. PAT. 5,736,910.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
ANTON LIAO	2012-08-03	SMD MagJack® (4 Cores,MDIX,CM Termination)	S8111X1T06-F	.X	UNIT : INCH [mm]
DRAWN BY	DATE	S811-1X1T-06-F	FILE NAME	.XX	SCALE : N/A
HE ZHEN	2012-08-03	PATENTED	S8111X1T06-F_E.DWG	.XXX	SIZE : A4
				±0.010	PAGE : 3

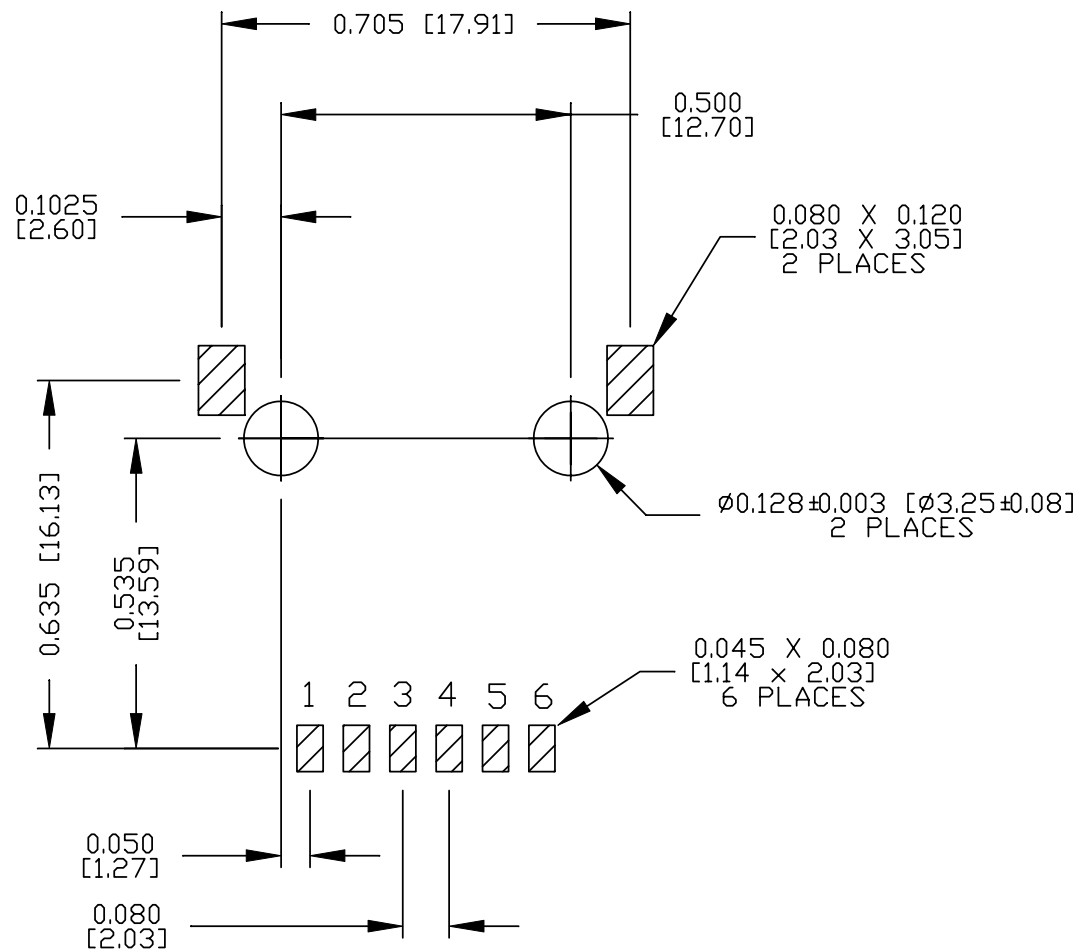
bel
COMPONENTS FOR A
CONNECTED
PLANET


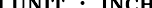
THE INFORMATION CONTAINED HEREIN IS CONSIDERED
"PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE
COPIED, REPRODUCED OR DISCLOSED WITHOUT THE
WRITTEN APPROVAL OF BEL FUSE INC.

RoHS



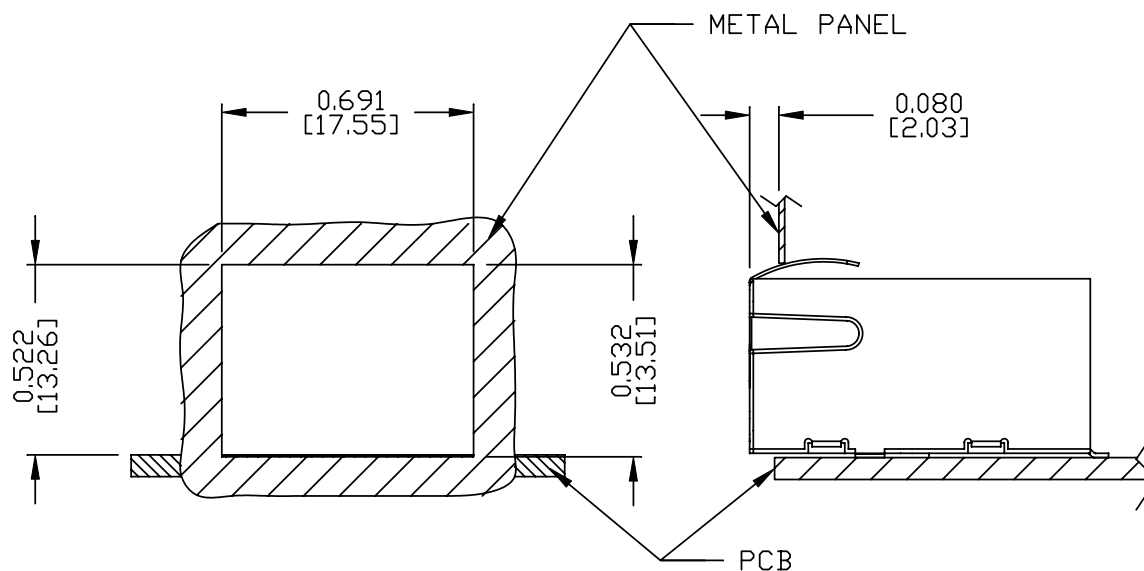
RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW



ORIGINATED BY	DATE	TITLE SMD MagJack ® (4 Cores,MDIX,CM Termination) S811-1X1T-06-F PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
ANTON LIAO	2012-08-03		S8111X1T06-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : E	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
HE ZHEN	2012-08-03		S8111X1T06-F_E.DWG	.XX			PAGE : 4	
				.XXX	±0.004			



SUGGESTED PANEL OPENING



NOTES:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT
SURFACE OF PART IS ONLY A SUGGESTION.
IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED
PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
ANTON LIAO	2012-08-03	SMD MagJack® (4 Cores,MDIX,CM Termination)	S8111X1T06-F		UNIT : INCH [mm] REV. : E
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A SIZE : A4
HE ZHEN	2012-08-03	S811-1X1T-06-F PATENTED	S8111X1T06-F_E.DWG	.XX	
				.XXX	±0.004
					⊕ - - - - -
					PAGE : 5

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

[S811-1X1T-06-F](#)