

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.



PATENTED:
THIS PRODUCT IS
COVERED BY U.S.
PATENT 5,736,910

DOCUMENT / PART NO.: SI-35003-F

TITLE : 10/100BT,STACK JACK, SHIELDED

ISSUE	DESCRIPTION OF CHANGE								REVIEWED BY				APPROVED BY				ECN#
01	Update the mechanical drawing								Bian Liu				Steve Weller				06374
																	</

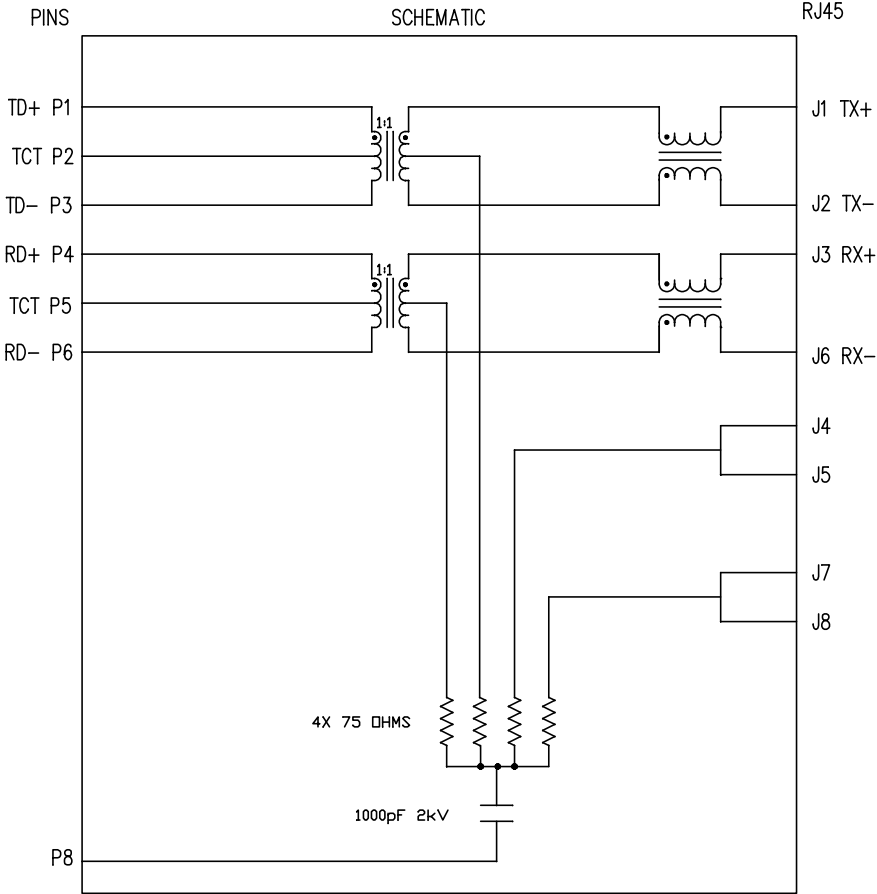
THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



ELECTRICAL CHARACTERISTICS @ 25° C

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

- 1.0 TURNS RATIO:
(P1-P2-P3) : (J1-J2)
(P4-P5-P6) : (J3-J6)
: 1CT : 1 ±3%
: 1CT : 1 ±3%
- 2.0 INDUCTANCE:
(P6-P4)
(P3-P1)
: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias, -40° C TO +85° C
: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias, -40° C TO +85° C
- 3.0 LEAKAGE INDUCTANCE:
P6-P4 (WITH J6 AND J3 SHORT)
P3-P1 (WITH J2 AND J1 SHORT)
: 0.3uH MAX. @ 1MHz
: 0.3uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE:
(P6,P5,P4) TO (J6,J3)
(P3,P2,P1) TO (J2,J1)
: 40pf MAX @ 1MHz
: 40pf MAX @ 1MHz
- 5.0 DC RESISTANCE: (J6-J3)=(J1-J2)
(P6-P4)
(P3-P1)
: 1.2 ohms Max.
: 0.7 ohms Max.
: 0.7 ohms Max.
- 6.0 RETURN LOSS:1MHz TO 30MHz
30MHz TO 80MHz
: 18dB MIN.
: 12dB MIN.
- 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P2)
(J3, J6) TO (P3, P6)
: 1500 Vrms
: 1500 Vrms
- 8.0 INSERTION LOSS: 100KHz TO 100MHz
: 1.1 dB TYP
- 9.0 RISE TIME: OUTPUT VOLTAGE = 1 V peak
PULSE WIDTH= 112nS
: 3.0 nS MAX
: 3.0 nS MAX
- 10.0 CROSS TALK: 1-100 MHz
: 40 dB TYP
- 11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz
: 35dB TYP



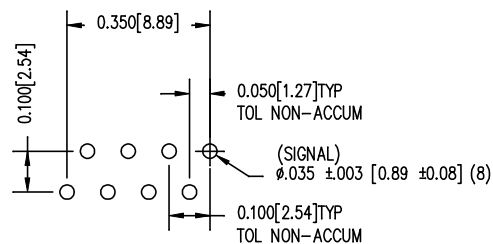
NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

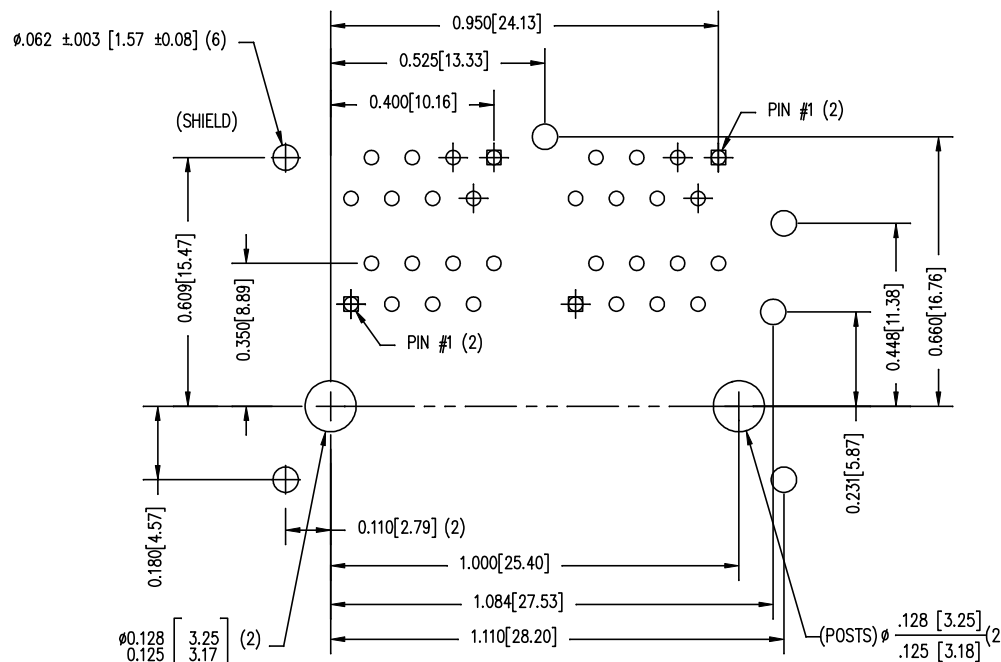
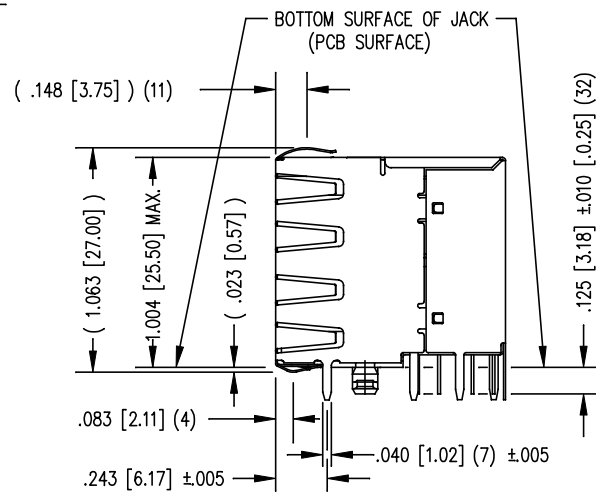
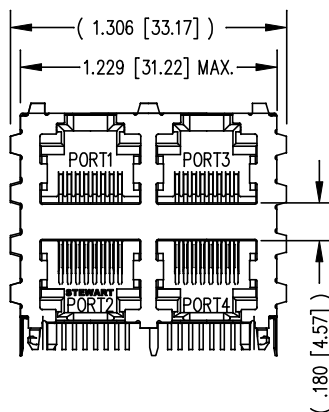
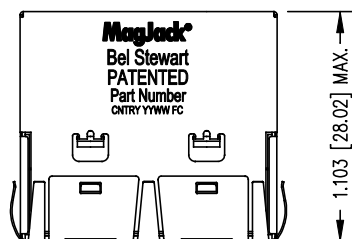
ORIGINATED BY		DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		
Zeng Xiao Chun		2011-08-18			TOL. IN INCH		UNIT : INCH [mm]	REV. : 01	
DRAWN BY		DATE			FILE NAME		SCALE : N/A	SIZE : A4	
Zhang Ru Sheng		2011-08-18			SI-35003-F.DWG			PAGE : 2	

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



TYPICAL HOLE LAYOUT
(4 POSITIONS)



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 ± 0.005 [0.13]
- WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.

ORIGINATED BY	DATE
Zeng Xiao Chun	2011-08-18
DRAWN BY	DATE
Zhang Ru Sheng	2011-08-18

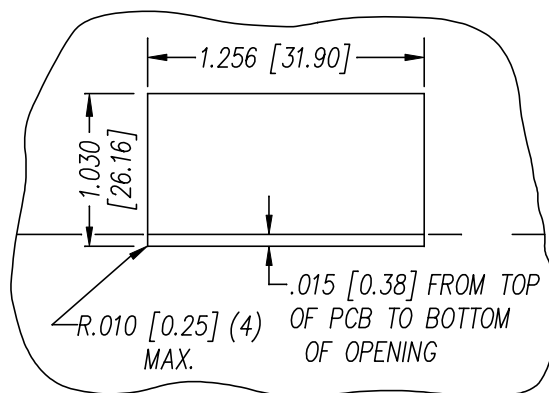
TITLE
MagJack® 10/100BT STACK JACK, SHIELDED PATENTED

PART NO. / DRAWING NO.
SI-35003-F
FILE NAME
SI-35003-F.DWG

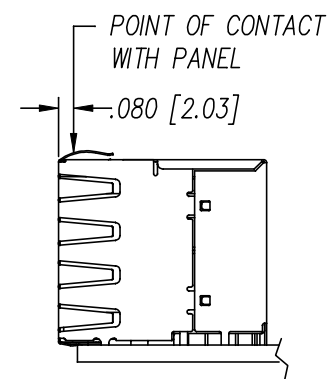
STANDARD DIM.
TOL. IN INCH
.X
.XX
.XXX
±0.005

[] METRIC DIM. AS REFERENCE
UNIT : INCH [mm]
SCALE : N/A
REV. : 01
SIZE : A4
PAGE : 3





SUGGESTED PANEL OPENING
(N.T.S.)



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]

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
Zeng Xiao Chun	2011-08-18	MagJack® 10/100BT STACK JACK, SHIELDED PATENTED	SI-35003-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : 01
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
Zhang Ru Sheng	2011-08-18		SI-35003-F.DWG	.XX		PAGE : 4
				.XXX		