


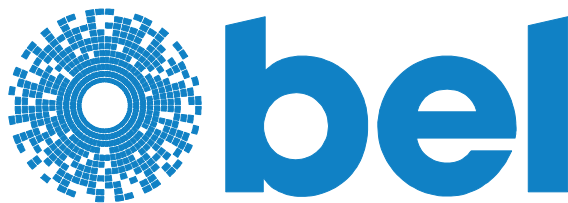


POWER | PROTECT | CONNECT

DOCUMENT / PART NO.: SI-60159-F

TITLE : 10/100BT ,TAB DOWN, SHIELDED

ISSUE	DESCRIPTION OF CHANGE						REVIEWED BY			APPROVED BY			ECN#
	Previous revisions kept in GR												
A0	Change to Bel format and add a cover sheet(GR ECO#06260:Use new format and production release)						Bain Liu			Danny Kwan (DEC.19,2008)			
A1	Update to newest format, added shield PIN Length and tolerance.(GR ECO#06337)						Bain Liu			Danny Kwan (Jul.16,2010)			RD4100102
A2	The product is patent, change the drawing to patent format.(GR ECO#06352)						Bain Liu			Danny Kwan (Aug,06,2010)			RD4100117
A3	CORRECT THE LED PIN HOLE DIMENSION & ADD UL LOGO INFORMATION						ANTON LIAO			 Leung, Wai-shun 2018.10.17 17:43:38 +08'00'			RD2180114
PAGE	1	2	3	4	5	6							
REV.	A3	A3	A3	A3	A3	A3							
PAGE													
REV.													



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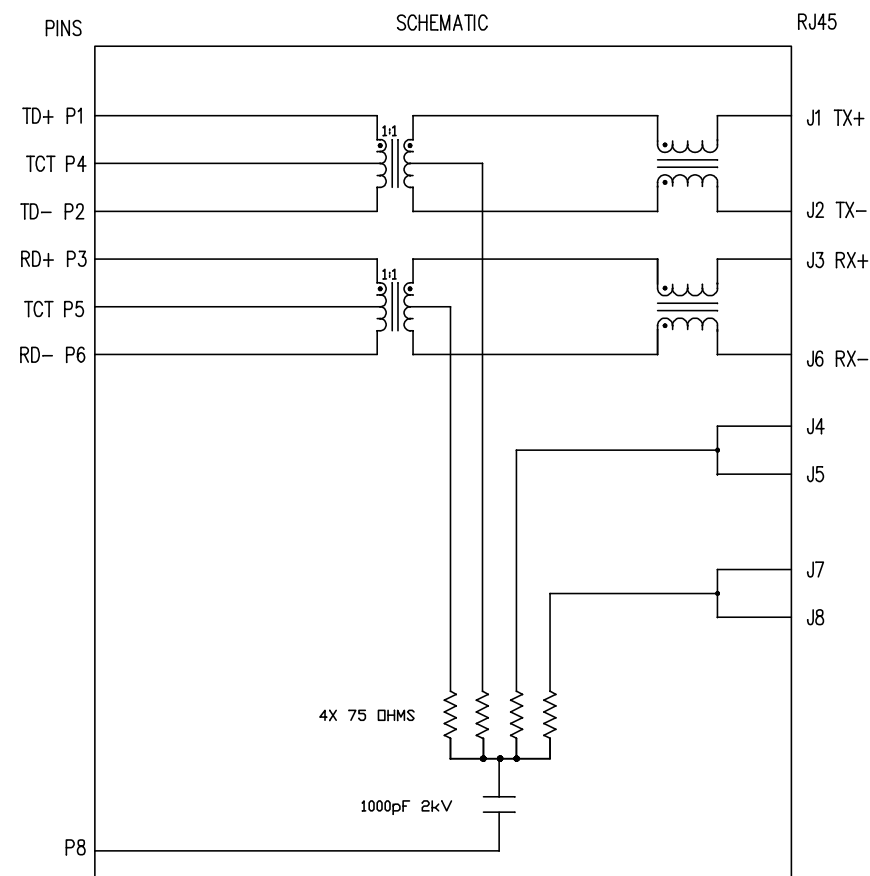
ISSUE	DESCRIPTION OF CHANGE						REVIEWED BY				APPROVED BY				ECN#
A0	USE NEW FORMAT AND PRODUCTION RELEASE.						BAIN LIU				DANNY KWAN				06260
A1	UPDATE TO NEW FORMAT, ADD SHIELD PIN LENGTH.						STEVE WELLER				STEVE WELLER				06337
A2	THE PRODUCT IS PATENT , CHANGE THE DRAWING TO PATENT FORMAT.						Bain Liu				Steve Weller				06352
A3	CORRECT THE LED PIN HOLE DIMENSION & ADD UL LOGO INFORMATION						ANTON LIAO								
PAGE	1	2	3	4	5	6									
REV.	A3	A3	A3	A3	A3	A3									
PAGE															C0148-F REV A1
REV.															24-0343-F REV A2

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ELECTRICAL CHARACTERISTICS @ 25°C

1.0	Turns Ratio: (P3-P5-P6) : (J3-J6) (P1-P4-P2) : (J1-J2)	: 1CT : 1CT ± 3% : 1CT : 1CT ± 3%
2.0	Inductance: (P1-P2) (P3-P6)	: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
3.0	Leakage Inductance: P6-P3 (WITH J6 AND J3 SHORT) P2-P1 (WITH J2 AND J1 SHORT)	: 0.3 MAX. @ 1MHz : 0.3 MAX. @ 1MHz
4.0	Interwinding Capacitance: (P6,P5,P3) TO (J6,J3) (P2,P4,P1) TO (J2,J1)	: 30pf MAX @ 1MHz : 30pf MAX. @ 1MHz
5.0	DC Resistance: (J6-J3)=(J2-J1)	: 1.2 ohms Max.
6.0	Return Loss: (P6-P4)=100 OHMS AND (P1-P2)=100 OHM REF. 1MHz TO 30MHz 60MHz TO 80MHz	: 18dB MIN. : 12dB MIN.
NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).		
7.0	Dielectric Withstand: (J1, J2) TO (P1, P2) (J3, J6) TO (P3, P6)	: 1500 Vrms : 1500 Vrms
8.0	Insertion Loss: RS=RL=100 ohms 100KHz TO 100MHz	: 1.1 dB TYP
9.0	Rise Time: RS=100 OHMS AND RL = 100 OHMS Output Voltage = 1 V peak Pulse Width= 112ns	: 3.0 nS MAX : 3.0 nS MAX
10.0	Cross Talk: 1MHz TO 100MHz	: 40 dB TYP
11.0	Common to Common Mode Attenuation: 30MHz TO 100MHz	: 35dB TYP
12.0	Operating Temperature	: 0°C TO 70°C



NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

ORIGINATED BY
CHOW WANCHUNG
DATE 2018-10-04

DRAWN BY
XIE YIMING
DATE 2018-10-04

TITLE

10/100BT MagJack®
TAB DOWN, SHIELDED

PART NO. / DRAWING NO.

SI-60159-F

FILE NAME

SI-60159-F_A3.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : A3

PAGE : 2



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RoHS

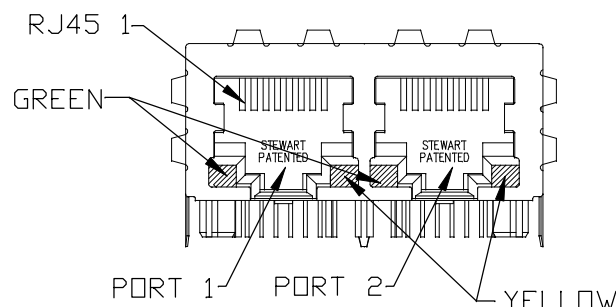
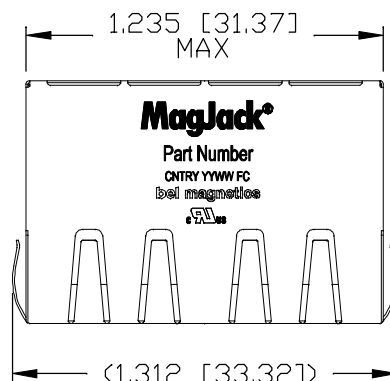


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Product Specification No.

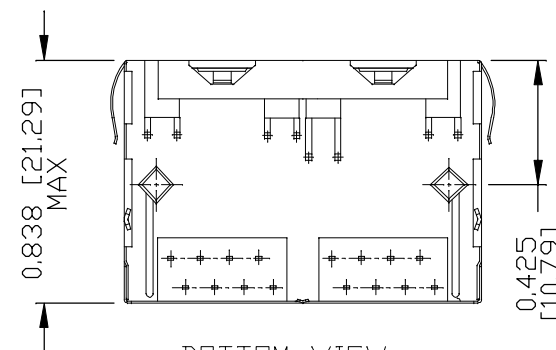
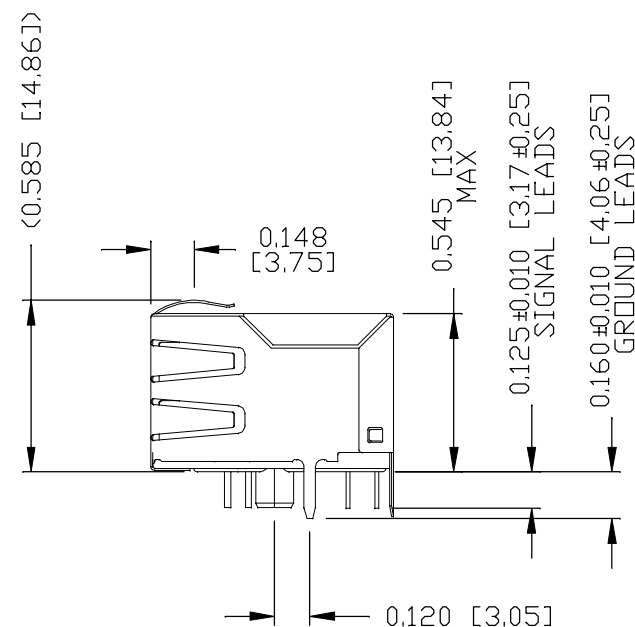
SI-60159-F

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NOTES:

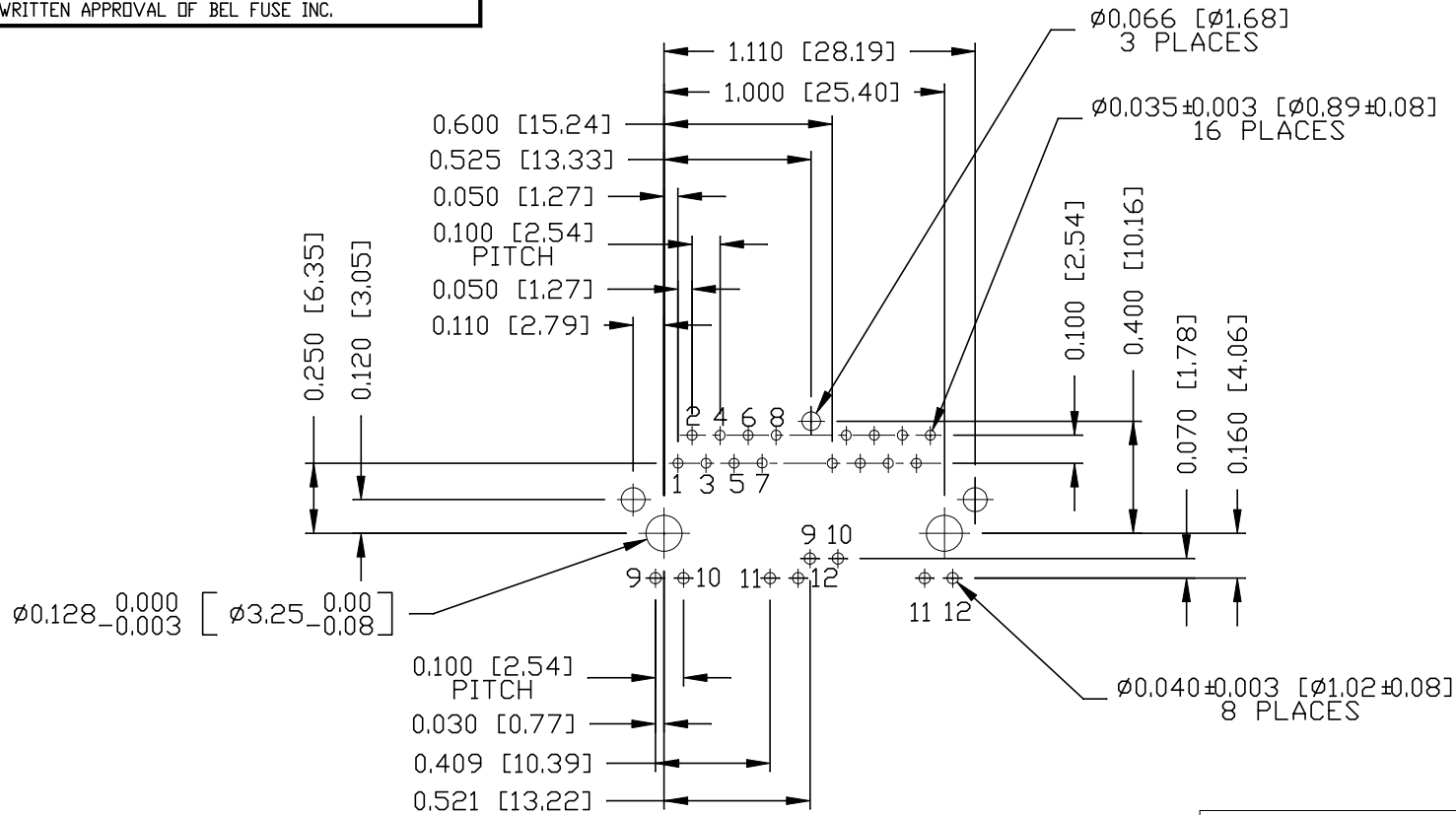
- CONNECTOR MATERIALS:
HOUSING: THERMOPLASTIC UL94 V-0
CONTACT/SHIELD: COPPER ALLOY
SHIELD PLATING: NICKEL OR TIN
CONTACT PLATING: SELECTIVE GOLD,
50 MICRO-INCHES MIN. IN CONTACT AREA.
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- THE PRODUCT IS RoHS COMPLIANT.
- UL RECOGNIZED - FILE #E474585.
- THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX.



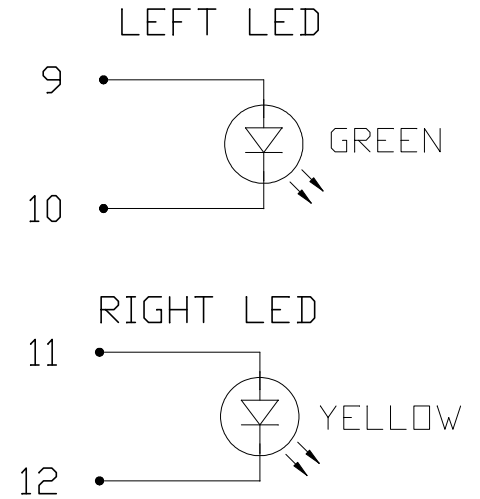
BOTTOM VIEW

ORIGINATED BY ANTON LIAO DATE 2018-10-04	TITLE 10/100BT MagJack® TAB DOWN, SHIELDED	PART NO. / DRAWING NO. SI-60159-F	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.	REV. : A3	PAGE : 3
DRAWN BY SANDY LIN DATE 2018-10-04		FILE NAME SI-60159-F_A3.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A SIZE : A4	<div data-bbox="1688 1347 2175 1482">  </div>	

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PCB RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE
ALL CENTERLINE DIMENSIONS ARE BASIC.



LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	* (TYP)
GREEN	565 nm	2.5 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

*WITH A FORWARD CURRENT OF 20 mA (TYP)

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ANTON LIAO
DATE 2018-10-04
DRAWN BY
SANDY LIN
DATE 2018-10-04

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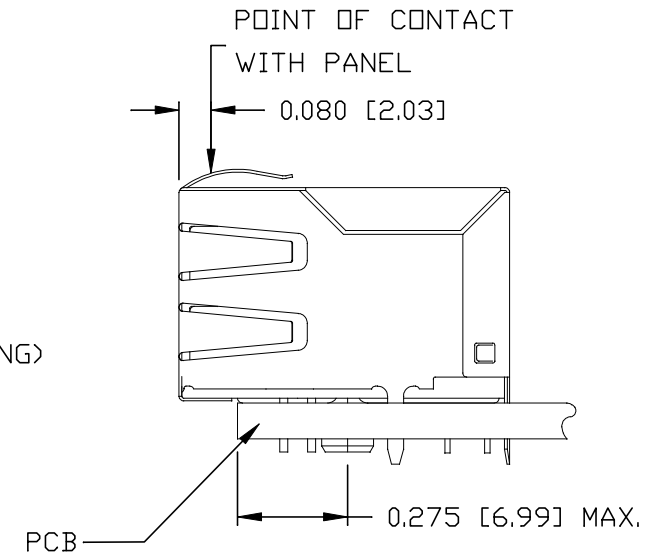
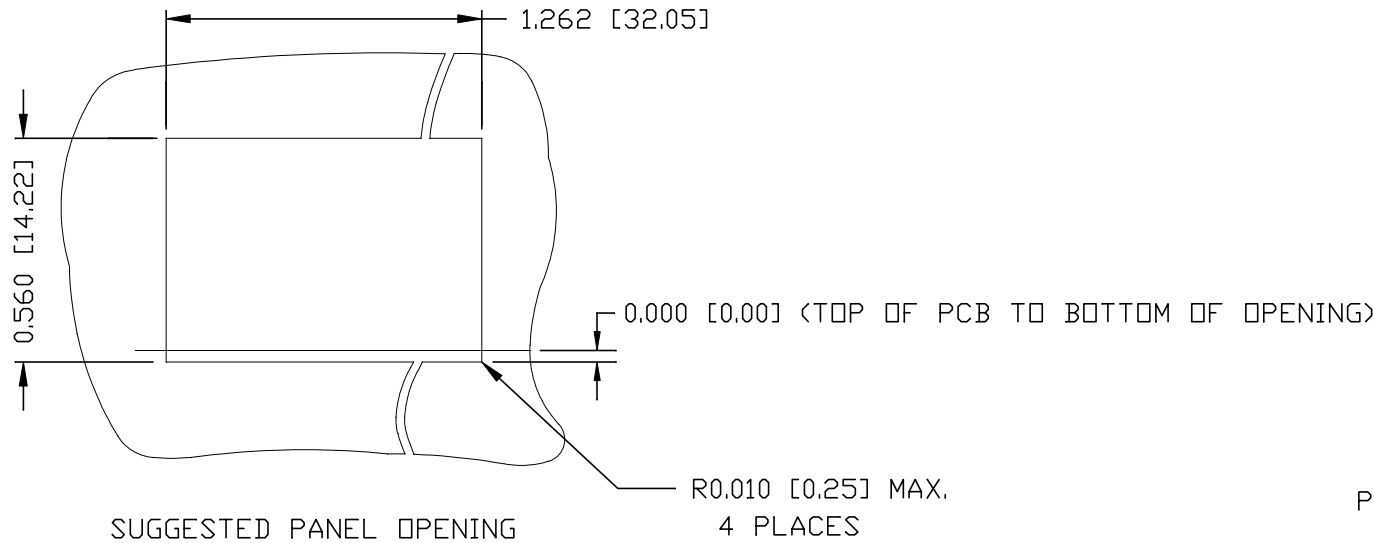
REV. : A3
PAGE : 4
 MAGNETIC SOLUTIONS
a bel group

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RoHS

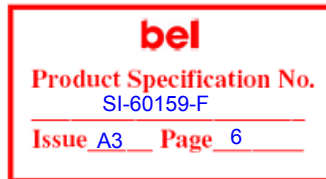


SUGGESTED PANEL OPENING



NOTES:

THE SUGGESTED PANEL OPENING IS INTENDED
TO GIVE THE USER THE ABILITY TO HAVE
REASONABLE JACK / PANEL CLEARANCES
YET MAINTAIN RELIABLE GROUNDING
CAPABILITY.



ORIGINATED BY
ANTON LIAO
DATE 2018-10-04

DRAWN BY
SANDY LIN
DATE 2018-10-04

TITLE


10/100BT MagJack®
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PART NO. / DRAWING NO.
SI-60159-F

FILE NAME
SI-60159-F_A3.DWG

STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.
.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.005	SIZE : A4

REV. : A3	PAGE : 5
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SOLUTIONS

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