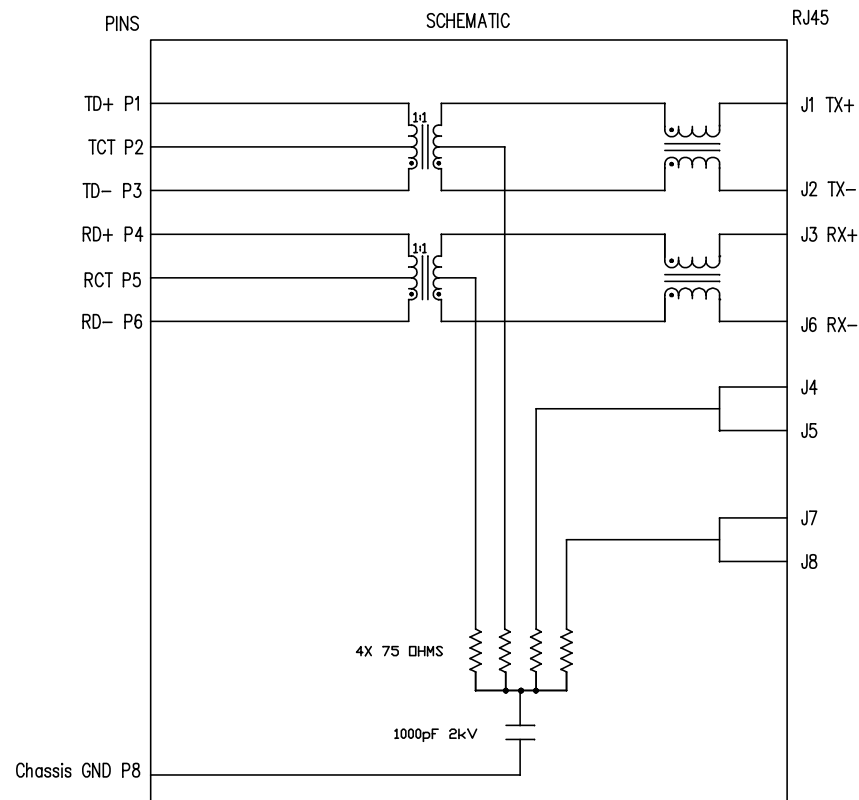




ELECTRICAL CHARACTERISTICS @ 25°C

1.0 TURNS RATIO:(P4-P5-P6) : (J3-J6)	: 1CT : 1CT ± 3%
(P3-P2-P1) : (J2-J1)	: 1CT : 1CT ± 3%
2.0 INDUCTANCE:(P4-P6) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias	
(P3-P1) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias	
3.0 LEAKAGE INDUCTANCE:P6-P4 (WITH J6 AND J3 SHORT)	: 0.3uH MAX. @ 1MHz
P3-P1 (WITH J2 AND J1 SHORT)	: 0.3uH MAX. @ 1MHz
4.0 INTERWINDING CAPACITANCE:(P6,P5,P4) TO (J6,J3)	: 30pF MAX @ 1MHz
(P3,P2,P1) TO (J2,J1)	: 30pF MAX. @ 1MHz
5.0 DC RESISTANCE:(J6-J3)=(J2-J1)	: 1.35 ohms Max.
6.0 RETURN LOSS:(P4-P6)=100 OHMS AND (P1-P3)=100 OHM REF.	
1MHz TO 30MHz	: 18dB MIN.
60MHz TO 80MHz	: 12dB MIN.
NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J3-J6).	
7.0 DIELECTRIC WITHSTAND:(J1, J2) TO (P1, P3)	: 1500 Vrms
(J3, J6) TO (P4, P6)	: 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	: 3.0 nS MAX
PULSE WIDTH= 112nS	: 3.0 nS MAX
10.0 CROSS TALK:1-100 MHz	: 40 dB TYP
11.0 COMMON TO COMMON MODE ATTENUATION:30MHz TO 100MHz: 35dB TYP	



NOTES: 1.0 UNUSED PIN P7 IS OMITTED.

ORIGINATED BY
CHOW WANCHUNG
DATE 2018-01-31

DRAWN BY
XIE YIMING
DATE 2018-01-31

TITLE
10/100BT MagJack®
TAB UP, SHIELDED

PART NO. / DRAWING NO.
SI-50154-F

FILE NAME
SI-50154-F_B.DWG

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

REV. : B	PAGE : 2
----------	----------

bel MAGNETIC SOLUTIONS
a bel group

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. CONNECTOR MATERIALS:

HOUSING: THERMOPLASTIC UL94 V-0

CONTACT/SHIELD: COPPER ALLOY

SHIELD PLATING: NICKEL OR TIN

CONTACT PLATING: 50 MICRO-INCH SELECTIVE HARD GOLD PLATING
OR EQUIVALENT IN CONTACT AREA

2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.

SEE ELECTRICAL DRAWING FOR OMITTED PINS.

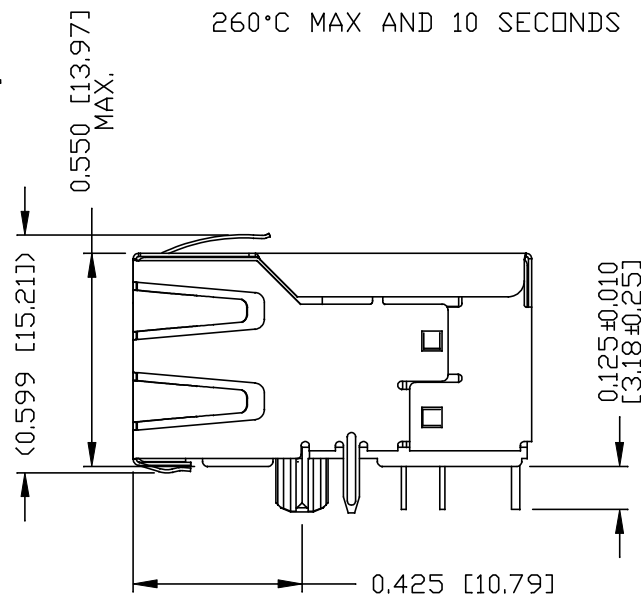
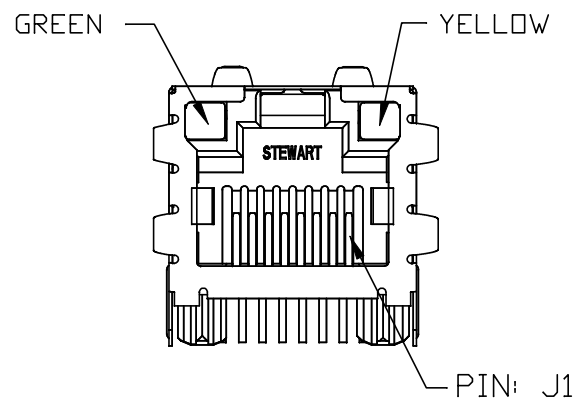
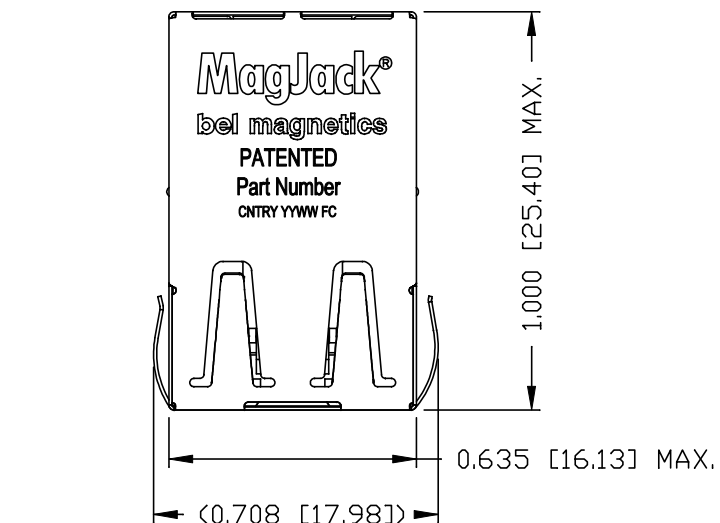
3. TOLERANCES COMPLY WITH TIA-1096 DIMENSION REQUIREMENTS.

4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 0.005 [0.13]

5. THE PRODUCT IS RoHS COMPLIANT.

6. THE PART IS RECOMMENDED FOR WAVE SOLDERING.

THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS
260°C MAX AND 10 SECONDS MAX.



ORIGINATED BY
ANTON LIAO
DATE 2018-01-31
DRAWN BY
LIU DONGJUN
DATE 2018-01-31

TITLE
10/100BT MagJack®
TAB UP, SHIELDED

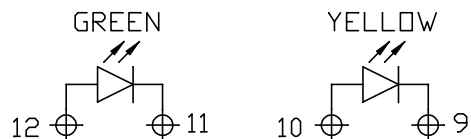
PART NO. / DRAWING NO.
SI-50154-F
FILE NAME
SI-50154-F_B.DWG

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

REV. :	B	PAGE :	3
 a bel group			

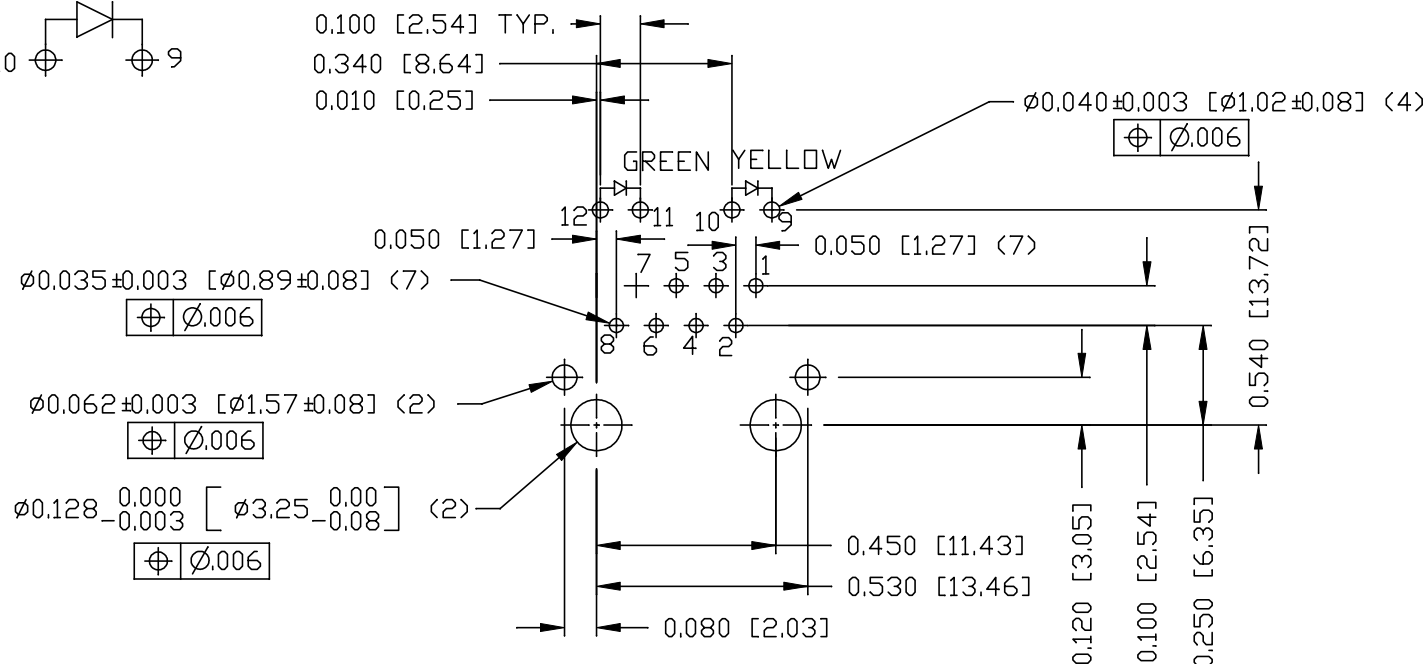


LED POLARITY



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)



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

ALL CENTERLINE DIMENSIONS ARE BASIC

ORIGINATED BY
ANTON LIAO
DATE 2018-01-31

DRAWN BY
LIU DONGJUN
DATE 2018-01-31

TITLE
10/100BT MagJack®
TAB UP, SHIELDED

PART NO. / DRAWING NO.
SI-50154-F

FILE NAME
SI-50154-F_B.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX
±0.005

[] METRIC DIM.
AS REF.

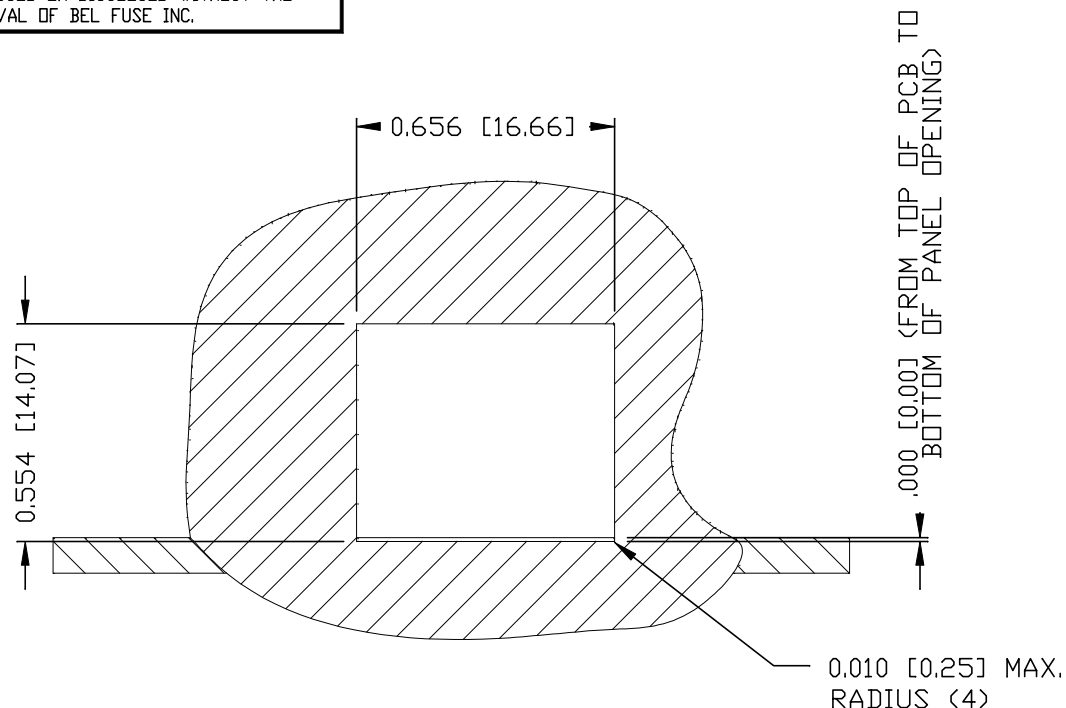
UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : B PAGE : 4

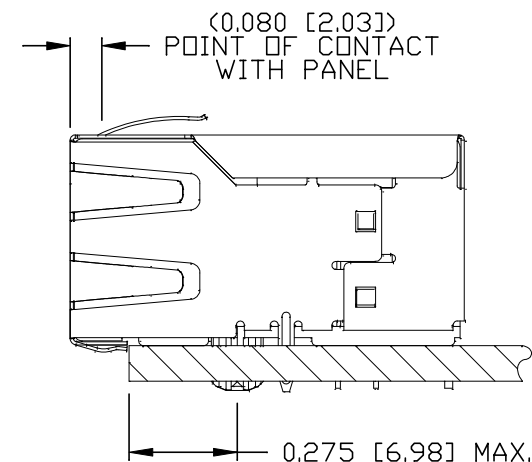


THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS



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.

					REV. : B		PAGE : 5		
ORIGINATED BY ANTON LIAO DATE 2018-01-31		TITLE 10/100BT MagJack® TAB UP, SHIELDED		PART NO. / DRAWING NO. SI-50154-F		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
DRAWN BY LIU DONGJUN DATE 2018-01-31				FILE NAME SI-50154-F_B.DWG		.X		UNIT : INCH [mm]	
						.XX		SCALE : N/A	
						.XXX		±0.005	
					bel MAGNETIC SOLUTIONS a bel group				

DC002(2)120214

This document is electronically generated. This is a controlled copy if used internally