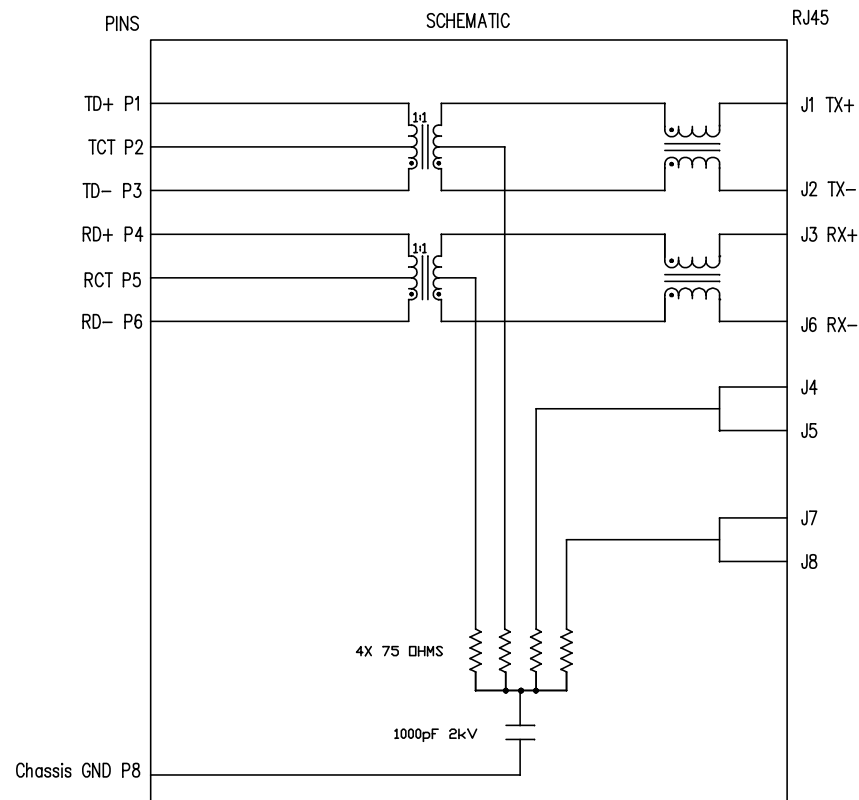




ELECTRICAL CHARACTERISTICS @ 25°C

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
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bel MAGNETIC SOLUTIONS
a bel group

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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.

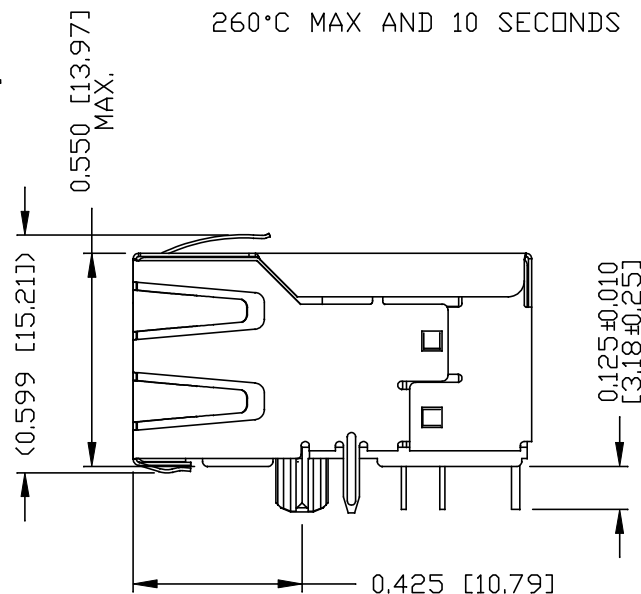
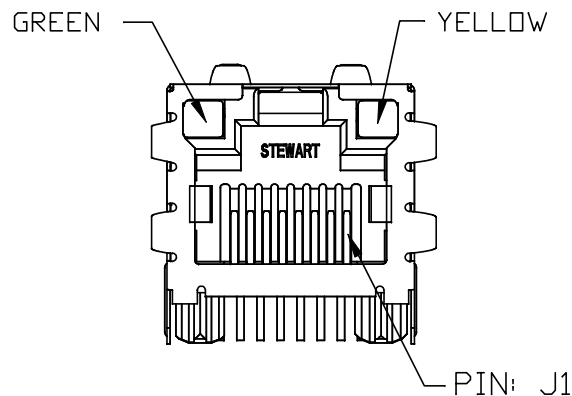
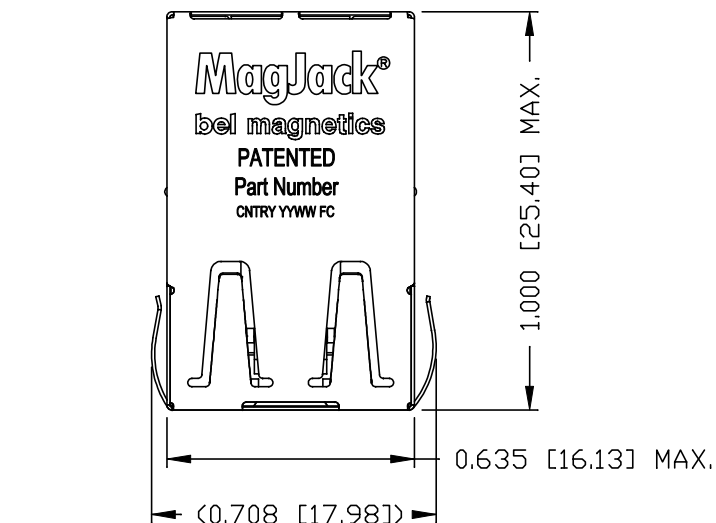
SEE ELECTRICAL DRAWING FOR OMITTED PINS.

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

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

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

REV. : B

PAGE : 3

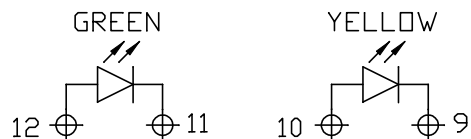


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RoHS

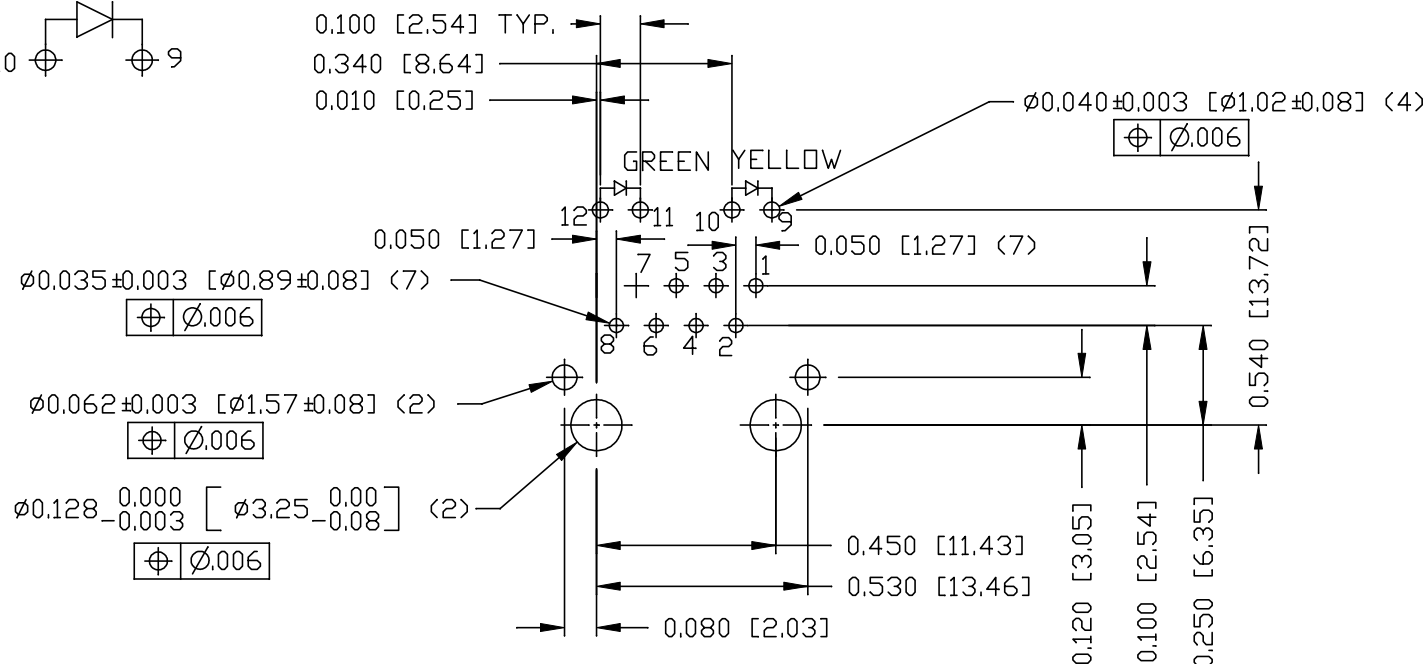


LED POLARITY



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

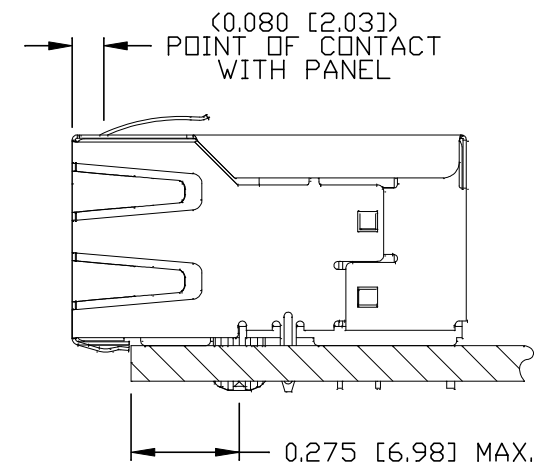
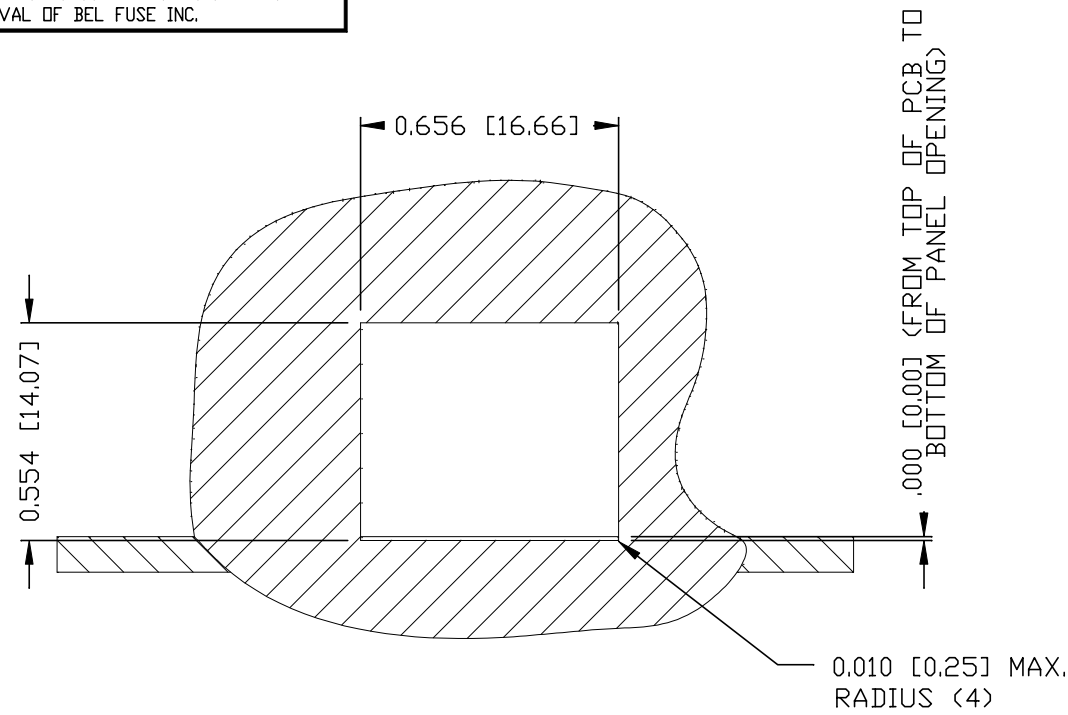
[] METRIC DIM.
AS REF.

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

REV. : B PAGE : 4



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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 2018-01-31 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 : 5
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