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WRITTEN APPROVAL OF BEL FUSE INC.

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C

1.0 INDUCTANCE:

(P2-P3)	350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
(P4-P5)	350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
(P7-P8)	350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
(P9-P10)	350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS

2.0 TURNS RATIO:

(P2-P3):(J1-J2)	1CT : 1CT $\pm$ 2%
(P4-P5):(J3-J6)	1CT : 1CT $\pm$ 2%
(P7-P8):(J4-J5)	1CT : 1CT $\pm$ 2%
(P9-P10):(J7-J8)	1CT : 1CT $\pm$ 2%

3.0 RETURN LOSS: 100 OHM REF.

500kHz TO 40MHz	-18dB MIN.
40MHz TO 100MHz	-12+20LOG(f/80MHz) MIN.

4.0 INSERTION LOSS: RS=RL=100 OHMS

100kHz TO 100MHz	-1.2dB MAX.
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5.0 CROSS TALK: Ch1-Ch2, Ch1-Ch3, Ch1-Ch4, Ch2-Ch3, Ch2-Ch4, Ch3-Ch4

1MHz TO 30MHz	-35dB MIN.
30MHz TO 80MHz	-24dB MIN.
80MHz TO 100MHz	-25dB MIN.

6.0 CM TO CM REJECTION:

100kHz TO 100MHz	-30dB MIN.
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7.0 CM TO DM REJECTION:

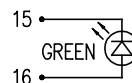
100kHz TO 100MHz	-35dB MIN.
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8.0 VOLTAGE WITHSTAND:

(J1,J2) TO (P2,P3)	1500Vrms
(J3,J6) TO (P4,P5)	1500Vrms
(J4,J5) TO (P7,P8)	1500Vrms
(J7,J8) TO (P9,P10)	1500Vrms

9.0 THIS COMPONENT IS A PATENT PRODUCT;US PATENT NUMBER 7,123,117.

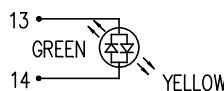
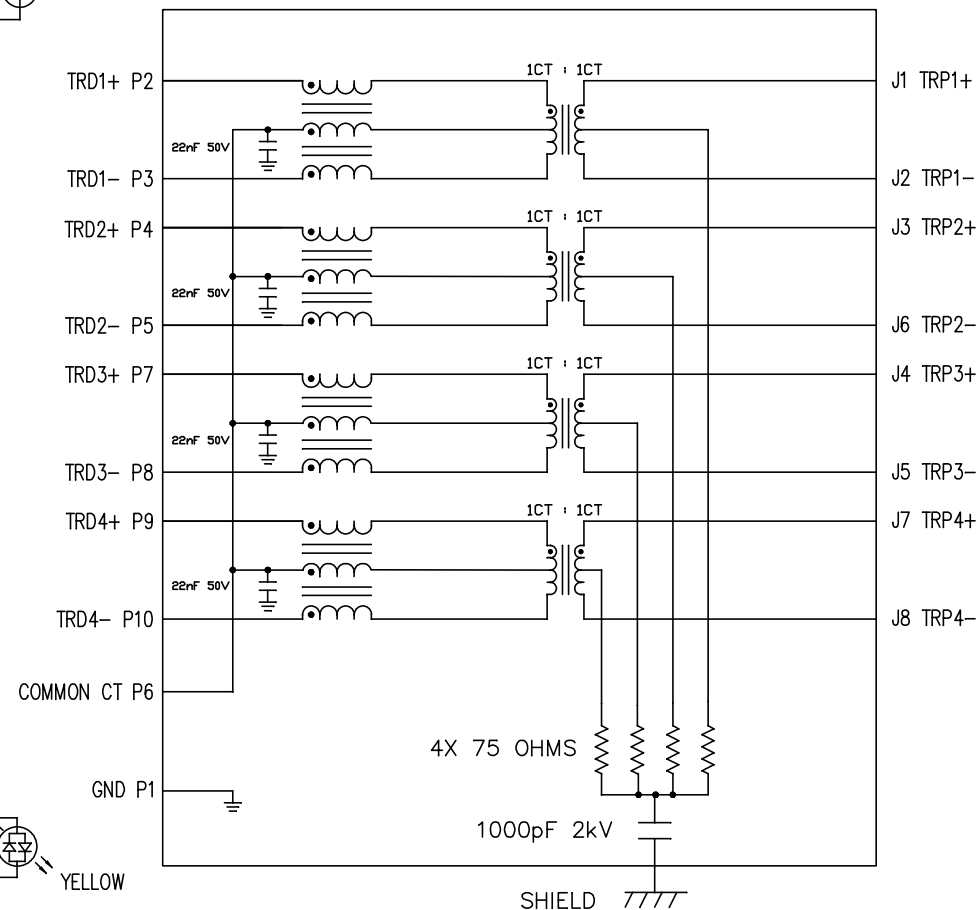
10.0 OPERATING TEMPERATURE RANGE: 0°C TO +70°C



PINS

SCHEMATIC

RJ45



ORIGINATED BY CHOW WANCHUNG DATE 2018-04-14		TITLE 10/100 BT MagJack® TAB UP, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-51009-FB		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.		 bel MAGNETIC SOLUTIONS a bel group
DRAWN BY XIE YIMING DATE 2018-04-14			FILE NAME SI-51009-FB_02.DWG		.X		UNIT : INCH [mm]		
					.XX		SCALE : N/A		
					.XXX		 SIZE : A4		

DC002(2)120214

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NOTES:

1. 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.

2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.

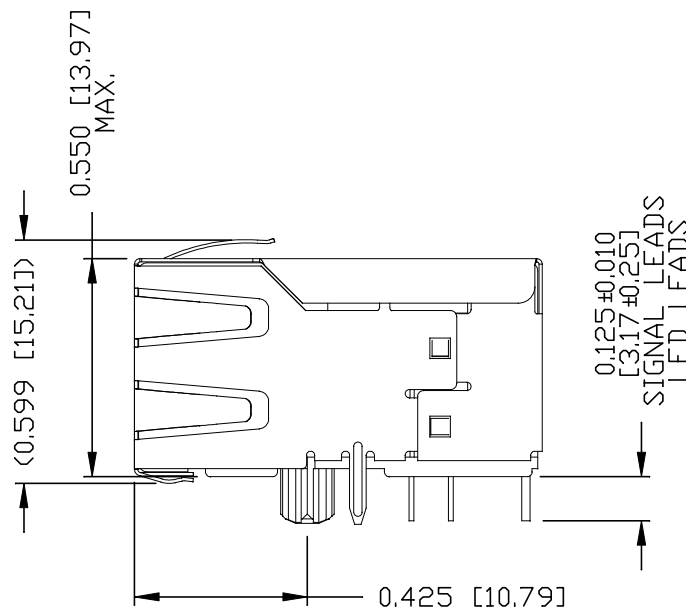
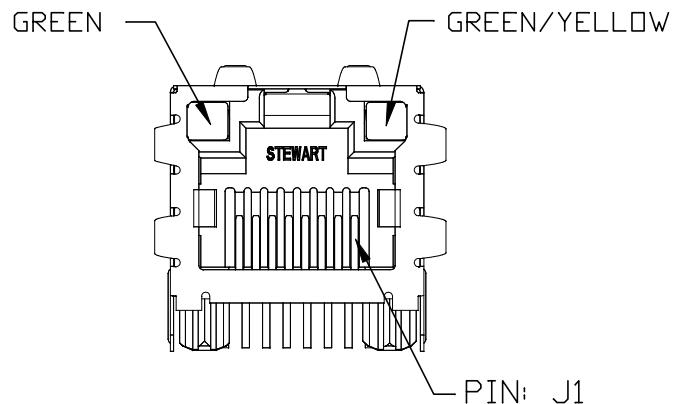
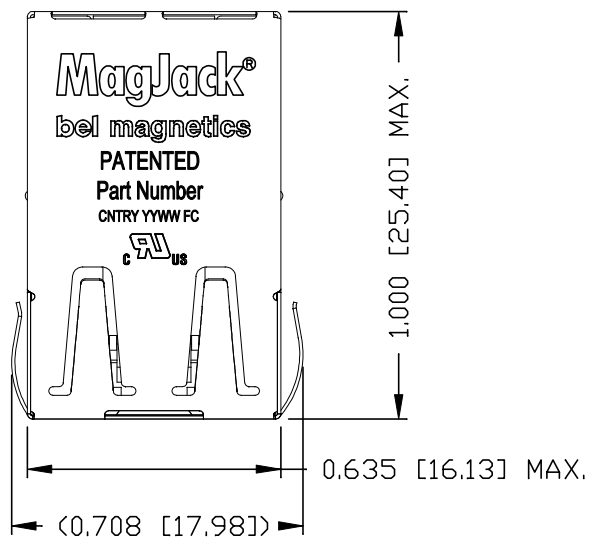
SEE ELECTRICAL DRAWING FOR OMITTED PINS.

3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.

4. THE PRODUCT IS RoHS COMPLIANT.

 UL RECOGNIZED - FILE #E474585.

5. THE PRODUCT IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX. AND 10 SECONDS MAX..



ORIGINATED BY
ANTON LIAO
DATE 2018-04-14

DRAWN BY
SANDY LIN
DATE 2018-04-14

TITLE
10/100 BT MagJack®
TAB UP, SHIELDED
PATENTED

PART NO. / DRAWING NO.
SI-51009-FB

FILE NAME
SI-51009-FB_02.DWG

STANDARD DIM.
TOL. IN INCH [] METRIC DIM.
AS REF.

.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.005	SIZE : A4

REV. : 02

PAGE : 3

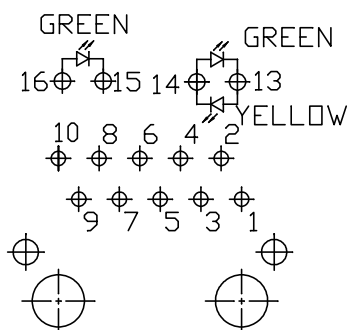




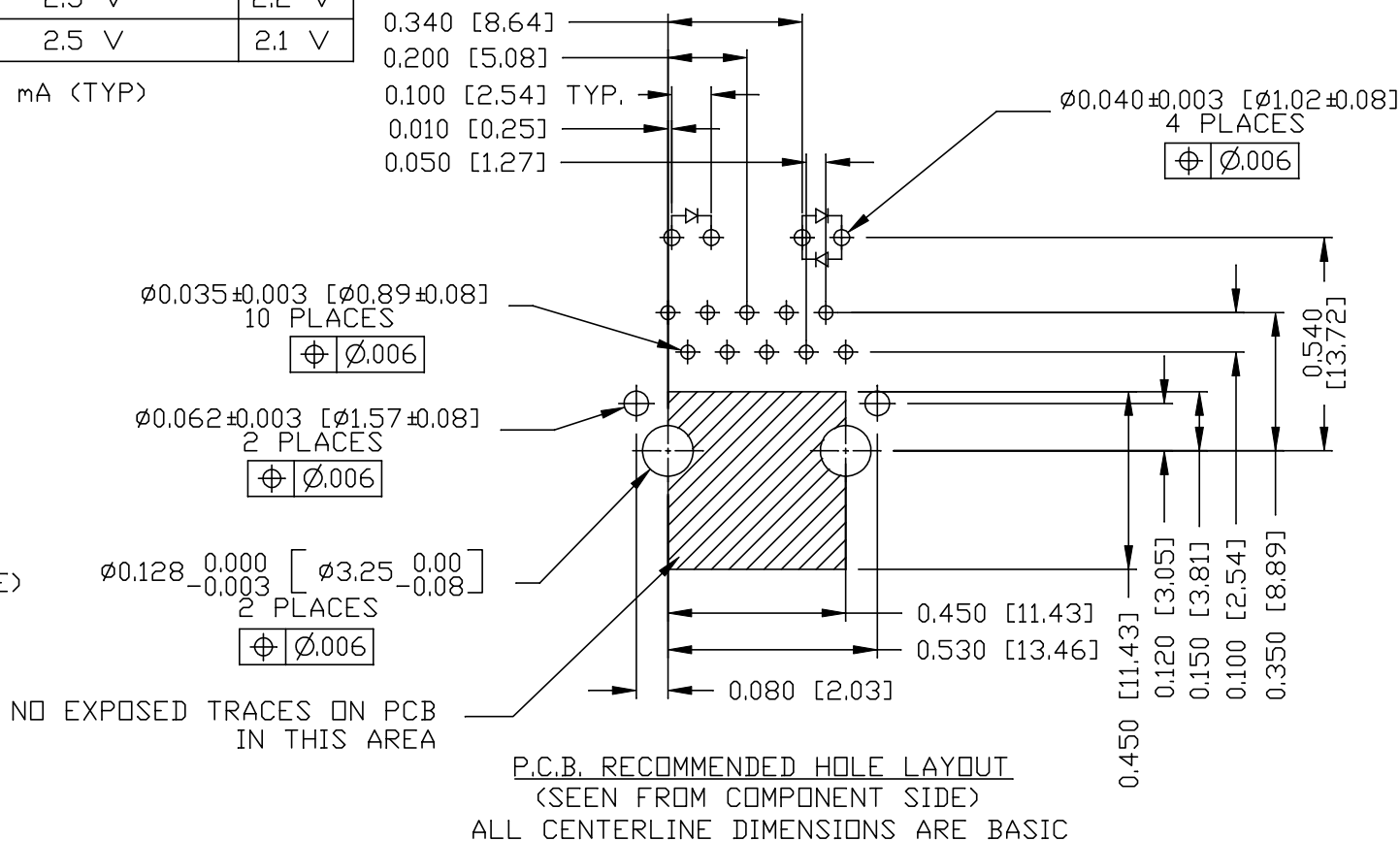
LED SPECIFICATION

LED COLOR	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)



PIN-OUT INFORMATION
(SEEN FROM COMPONENT SIDE)



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TAB UP, SHIELDED
PATENTED

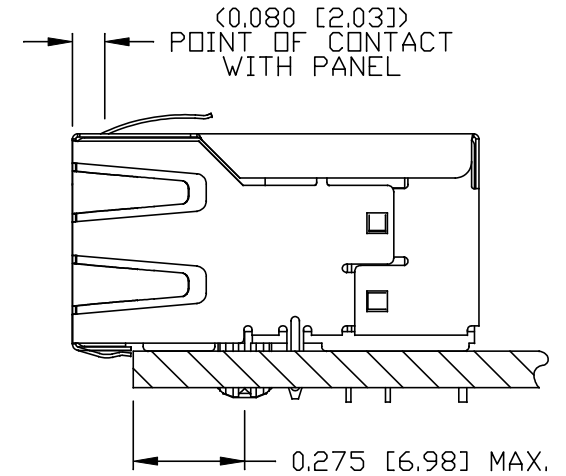
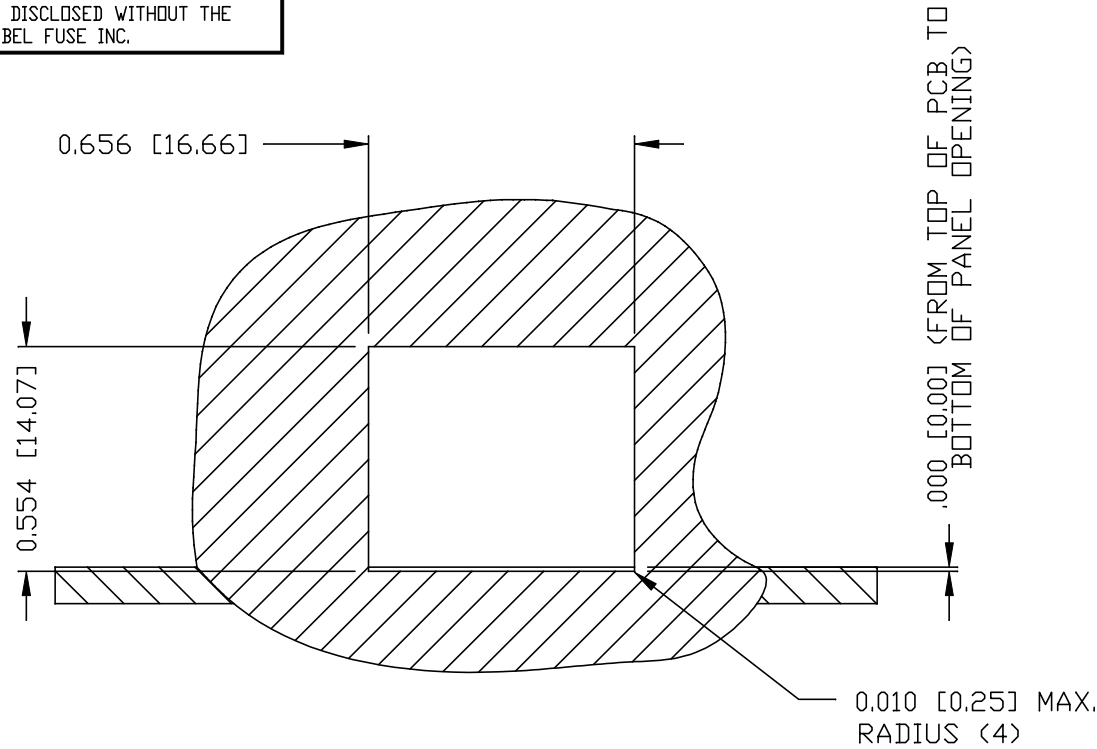
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SUGGESTED PANEL OPENING

NOTES:

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

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PATENTED

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TOL. IN INCH

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.XX
.XXX ±0.005

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PAGE : 5

