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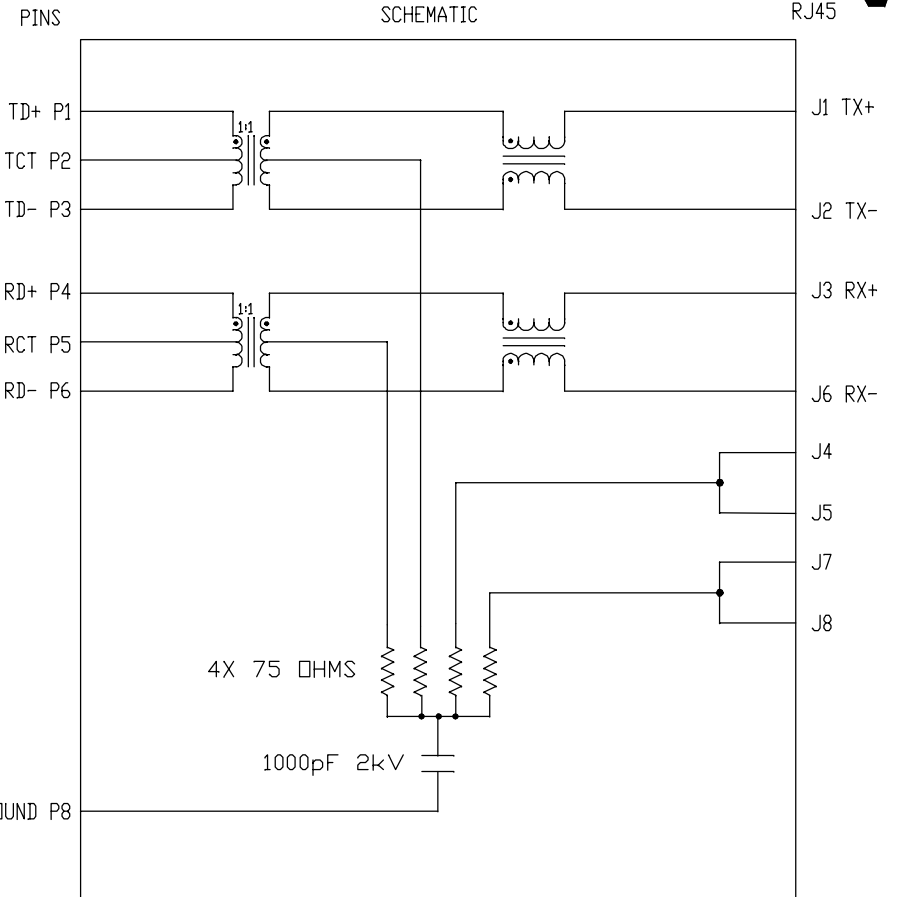
PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

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

- 1.0 TURNS RATIO: (P4-P5-P6) : (J3-J6) : 1CT : 1CT ± 3%  
(P3-P2-P1) : (J1-J2) : 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 OHMS 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 VAC  
(J3, J6) TO (P4, P6) : 1500 VAC
- 8.0 INSERTION LOSS: RS=RL=100 ohms : 1.1 dB TYP  
100KHz TO 100MHZ
- 9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS : 3.0 nS MAX  
OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX  
PULSE WIDTH= 112nS
- 10.0 CROSS TALK: 1-100 MHZ : 40 dB MIN
- 11.0 COMMON TO COMMON MODE ATTENUATION: 30MHZ TO 100MHZ : 35dB TYP



NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

ORIGINATED BY  
CHOW WANCHUNG  
DATE 2020-11-16

TITLE

10/100 BT MagJack®  
TAB UP, SHIELDED

DRAWN BY  
XIE YIMING  
DATE 2020-11-16

PART NO. / DRAWING NO.

SI-80053-F

FILE NAME

SI-80053-F\_2.DWG

STANDARD DIM.  
TOL. IN INCH

.X

.XX

.XXX

[ ] METRIC DIM.  
AS REF.

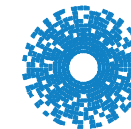
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SCALE : N/A

SIZE : A4

REV. : 2

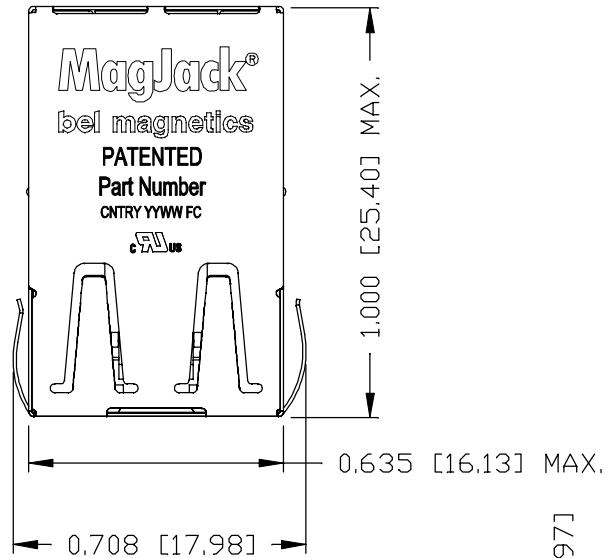
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**bel** MAGNETIC SOLUTIONS  
a bel group

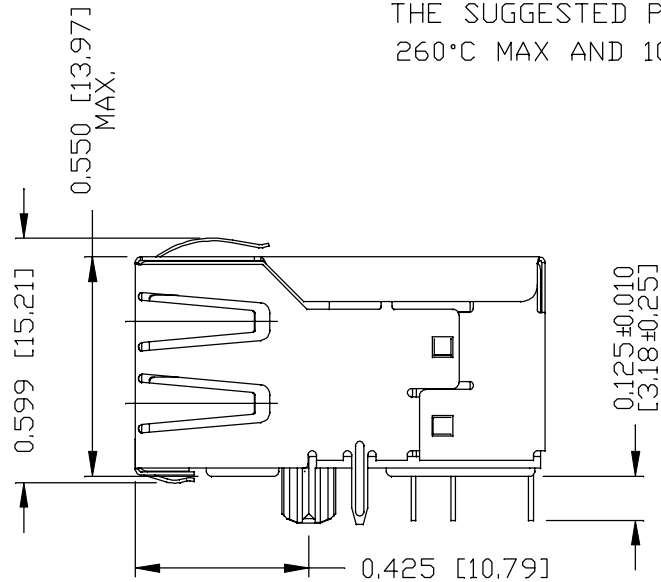
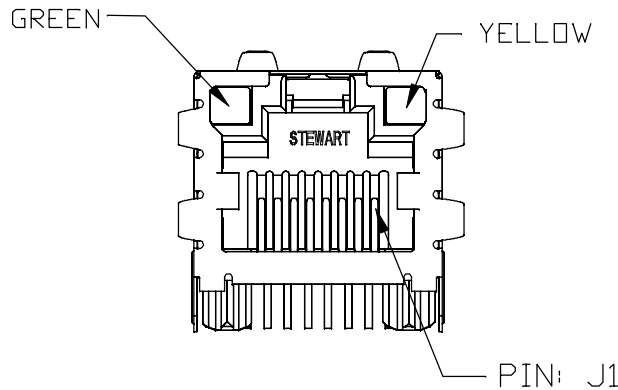
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NOTES:

- CONNECTOR MATERIALS:  
 HOUSING: THERMOPLASTIC UL94 V-0  
 CONTACT/SHIELD: COPPER ALLOY  
 SHIELD PLATING: NICKEL OR TIN  
 CONTACT PLATING: 15 MICRO-INCH SELECTIVE HARD GOLD PLATING OR EQUIVALENT 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.  
 cULus 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.



ORIGINATED BY  
SANDY LIN  
DATE 2020-11-16  
DRAWN BY  
RUAN WENJUN  
DATE 2020-11-16

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RoHS

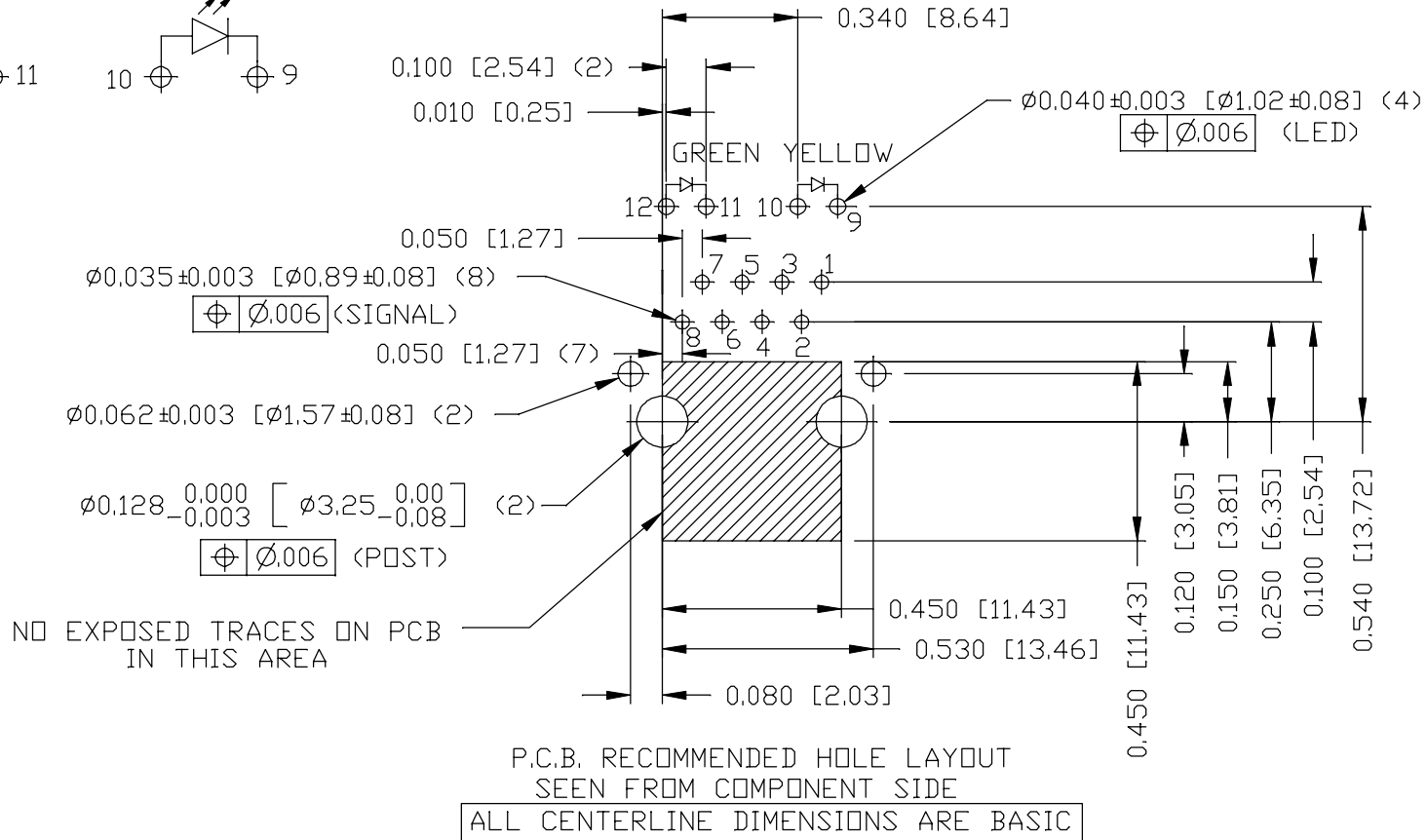
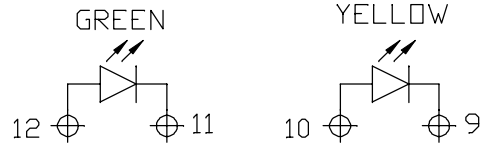


PRELIMINARY

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	*(TYP)
GREEN	570 nm	2.5 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

\*WITH A FORWARD CURRENT OF 20 mA (TYP)

LED POLARITY



REV. : 2 PAGE : 4

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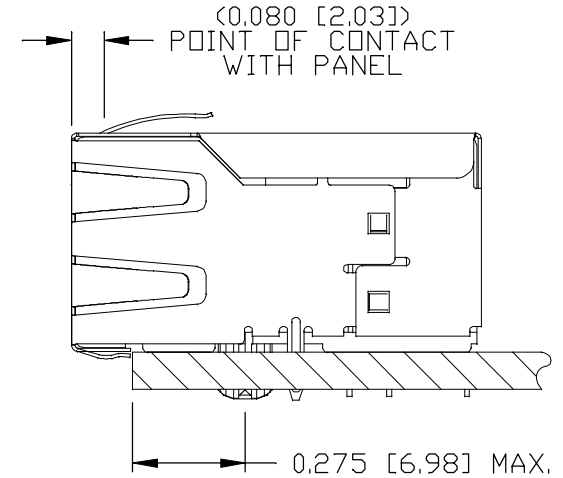
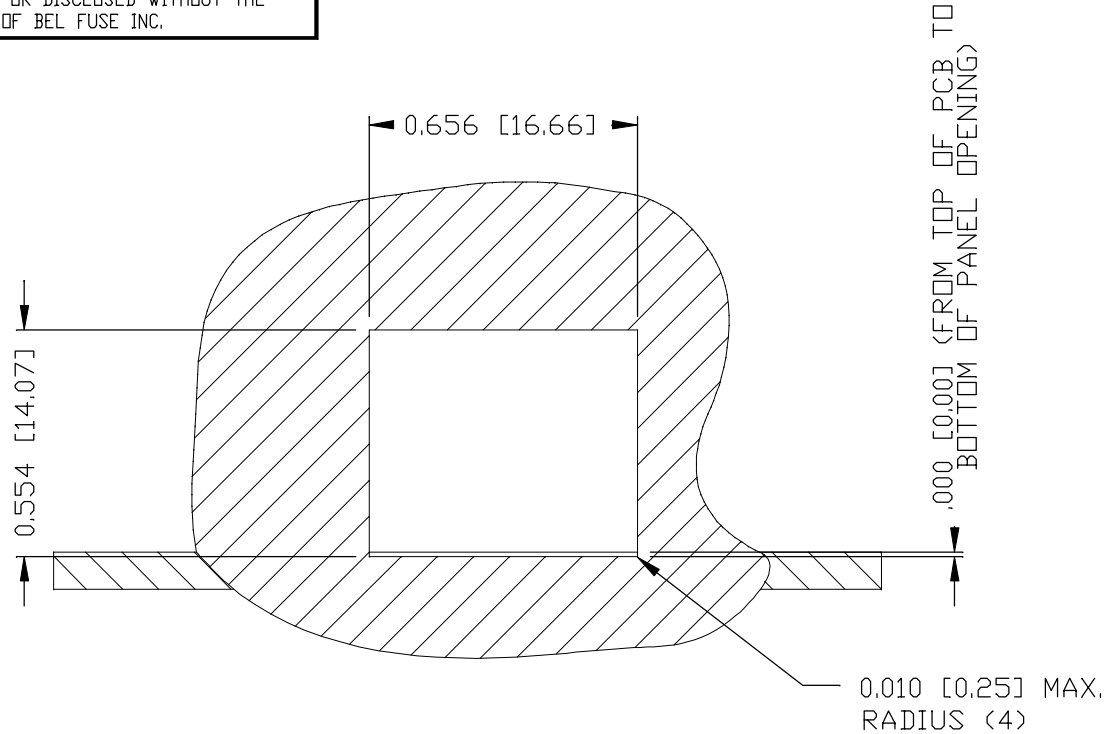
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PRELIMINARY



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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