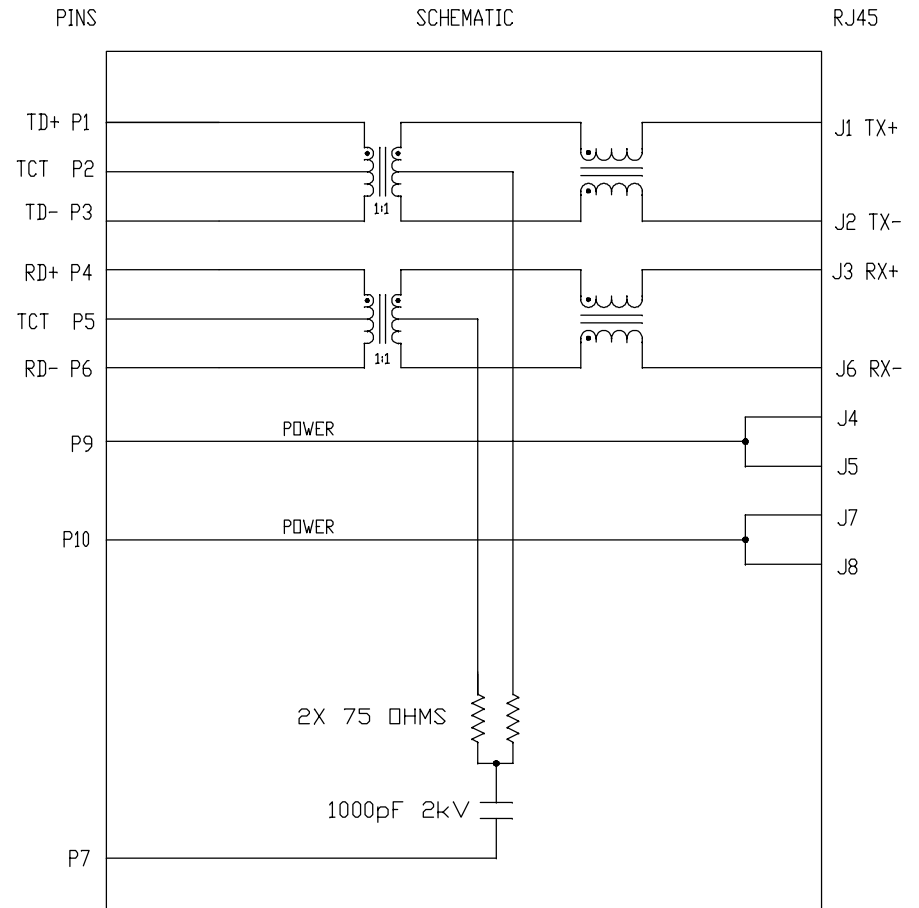


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ELECTRICAL CHARACTERISTICS @ 25°C

CURRENT CAPABILITY FOR POWER LINES:	400 mA MAX
1.0 INDUCTANCE:	
(P4-P6)	350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
(P1-P3)	350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
2.0 TURNS RATIO:	
(P4-P5-P6):(J3-J6)	1CT : 1CT ± 3%
(P1-P2-P3):(J1-J2)	1CT : 1CT ± 3%
3.0 LEAKAGE INDUCTANCE:	
P4-P6 (WITH J3 AND J6 SHORT)	0.3 uH MAX. @ 1MHz
P1-P3 (WITH J1 AND J2 SHORT)	0.3 uH MAX. @ 1MHz
4.0 INTERWINDING CAPACITANCE:	
(P4,P5,P6) TO (J3,J6)	30pF MAX. @ 1 MHz
(P1,P2,P3) TO (J1,J2)	30pF MAX. @ 1 MHz
5.0 DC RESISTANCE:	
(J3-J6)=(J1-J2)	1.2 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 (J1-J2) 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	
100KHz TO 100MHz	-1.1 dB
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:	
1MHz TO 100MHz	-40 dB TYP
11.0 COMMON TO COMMON MODE ATTENUATION:	
30MHz TO 100MHz	-35dB TYP
12.0 OPERATING TEMPERATURE RANGE:	0°C TO +70°C



NOTES  
1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED

REV. : C      PAGE : 2

ORIGINATED BY  
CHOW WANCHUNG  
DATE 2021-01-06  
DRAWN BY  
TANG YUAN  
DATE 2021-01-06

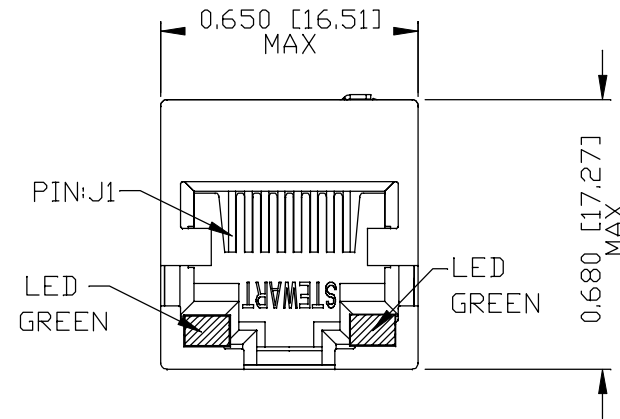
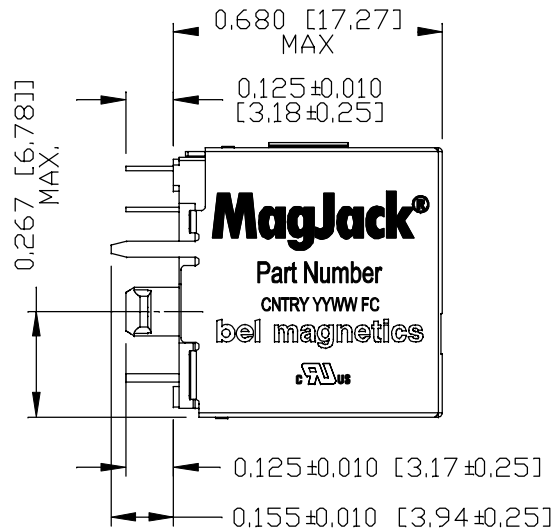
TITLE  
MagJack®  
10/100BT  
VERTICAL, SHIELDED

PART NO. / DRAWING NO.  
SI-46020-F  
FILE NAME  
SI-46020-F\_C.DWG

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



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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 F.C.C. DIMENSION REQUIREMENTS.

4. THE PRODUCT IS ROHS COMPLIANT.

UL RECOGNIZED - FILE #E474585.

5. 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	TITLE MagJack® 10/100BT VERTICAL, SHIELDED
DATE 2021-01-06	
DRAWN BY RUAN WENJUN	PART NO. / DRAWING NO. SI-46020-F
DATE 2021-01-06	

FILE NAME SI-46020-F_C.DWG	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.
	.X	UNIT : INCH [mm]
	.XX	SCALE : N/A
	.XXX ±0.005	SIZE : A4

REV. : C	PAGE : 3
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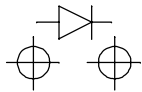
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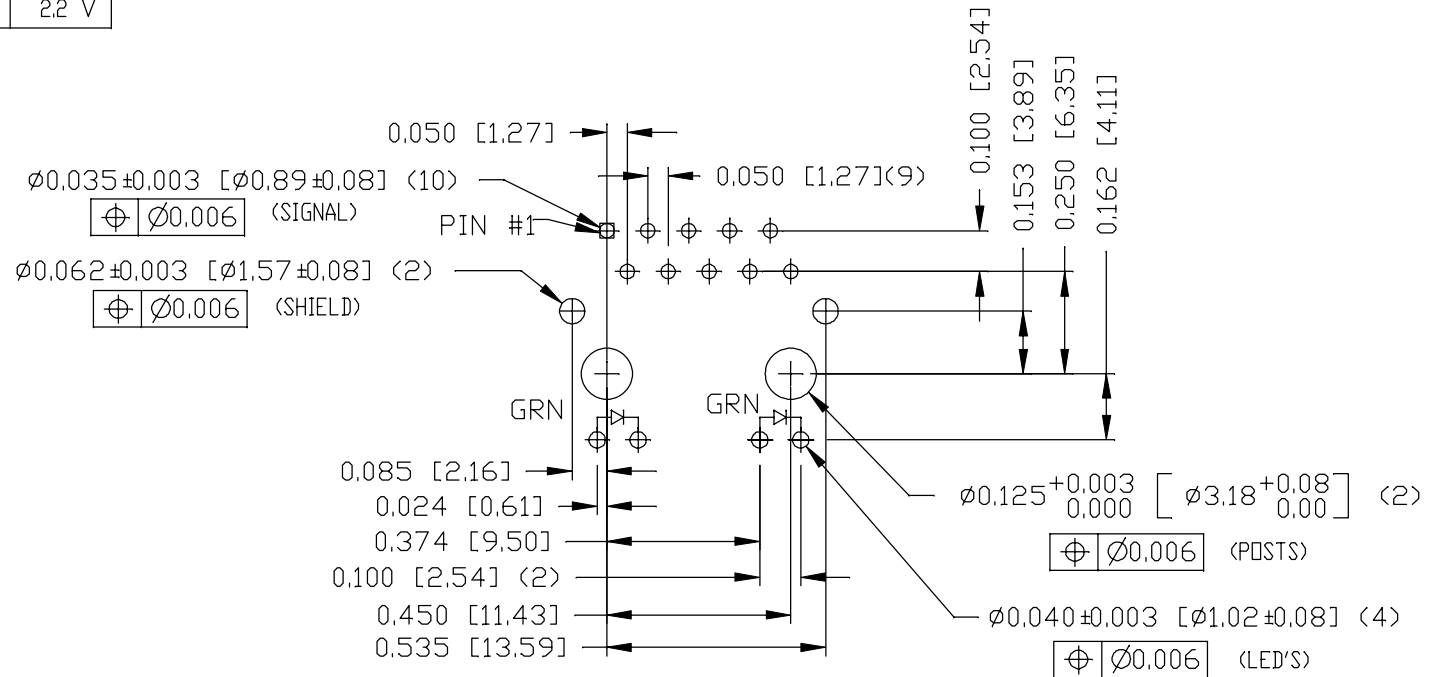
LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	*(TYP)
GREEN	570 nm	2.5 V	2.2 V

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

LED POLARITY  
(ENLARGED VIEW)



SINGLE COLOR LED



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

ALL CENTERLINE DIMENSIONS ARE BASIC.

ORIGINATED BY SANDY LIN DATE 2021-01-06		TITLE MagJack® 10/100BT VERTICAL, SHIELDED	PART NO. / DRAWING NO. SI-46020-F		STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.		REV. : C	PAGE : 4
DRAWN BY RUAN WENJUN DATE 2021-01-06			FILE NAME SI-46020-F_C.DWG		.X		UNIT : INCH [mm]		a bel group	
					.XX		SCALE : N/A			
				.XXX	±0.005	SIZE : A4				