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2.0 INDUCTANCE:

5.0 DC RESISTANCE:

## **SCHEMATIC** PINS RJ45 ELECTRICAL CHARACTERISTICS @ 25°C TD+ P1 J1 TX+ : 1CT : 1CT ± 3% : 1CT : 1CT ± 3% TCT P2 : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias TD- P3 J2 TX-RD+ P4 J3 RX+ 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 RCT P5 RD-P6 (P6,P5,P4) TO (J6,J3) (P3,P2,P1) TO (J2,J1) J6 RX-: 30pF MAX @ 1MHz : 30pF MAX. @ 1MHZ J4 : 1.35 ohms Max. J5 6.0 RETURN LOSS: (P4-P6)=100 OHMS AND (P1-P3)=100 OHM REF. : 18dB MIN. J7 : 12dB MIN. J8 : 1500 Vrms : 1500 Vrms 4X 75 DHMS

**RoHS** 

NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J3-J6).

1MHz TO 30MHz

60MHz TO 80MHz

(J1, J2) TO (P1, P3) (J3, J6) TO (P4, P6) 7.0 DIELECTRIC WITHSTAND:

8.0 INSERTION LOSS: RS=RL=100 ohms

1.0 TURNS RATIO: (P4-P5-P6): (J3-J6) (P3-P2-P1): (J2-J1)

4.0 INTERWINDING CAPACITANCE:

100KHz TO 100MHz

(J6-J3)=(J2-J1)

: 1.1 dB TYP

9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS

OUTPUT VOLTAGE = 1 V peak PULSE WIDTH= 112nS

: 3.0 nS MAX : 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.

1000pF 2kV

					REV. :	В	PAGE:	2
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STANDARD DI	1. [ ] METRIC DIM.				
CHOW WANCHUNG		SI-50170-F	TOL. IN INCH	AS REF.	AND THE REAL PROPERTY.			
<b>DATE</b> 2018-01-31	10/100BT MagJack®	31 30170 1	v	UNIT : INCH [mm]			MAG	NETIC
DRAWN BY	TAB UP, SHIELDED	FILE NAME	·^	+	7720-000		SOL	UTIONS
XIE YIMING	1112 31, 311122222	ST 50170 F DDV/C	.XX	SCALE : N/A	1565.2	a bel grou	ip	
DATE 2018-01-31		SI-50170-F_B.DWG	.xxx	SIZE : A4			•	

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Chassis GND P8

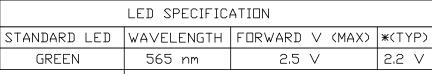
THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE NOTES: COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. 1, CONNECTOR MATERIALS: HOUSING: THERMOPLASTIC UL94 V-0 CONTACT/SHIELD: COPPER ALLOY SHIELD PLATING: NICKEL OR TIN MAX. CONTACT PLATING: 50 MICRO-INCH SELECTIVE HARD GOLD PLATING bel magnetics OR EQUIVALENT IN CONTACT AREA **PATENTED** [25,40] 2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED. Part Number SEE ELECTRICAL DRAWING FOR OMITTED PINS. CNTRY YYWW FC 3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS. 4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±0.005 [0.13] 1,000 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. 0,635 [16,13] MAX. ├**-** (0,708 [17,98]) ┡┤ GREEN **GREEN** (5,211) 599 0 PIN: J1 0,425 [10,79] 3 REV. : В PAGE:

	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[ ] METRIC DIM.	
ANTON LIAO <b>date</b> 2018-01-31	10 (100DT M II-®)	SI-50170-F	TOL.	IN INCH	AS REF.	
	10/100BT MagJack®		.x		UNIT : INCH [mm]	
DRAWN BY LIU DONGJUN	TAB UP, SHIELDED	FILE NAME	.XX		SCALE : N/A	•
<b>DATE</b> 2018-01-31		SI-50170-F_B.DWG	.xxx	±0.005	SIZE : A4	

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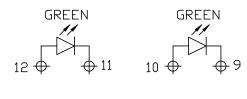


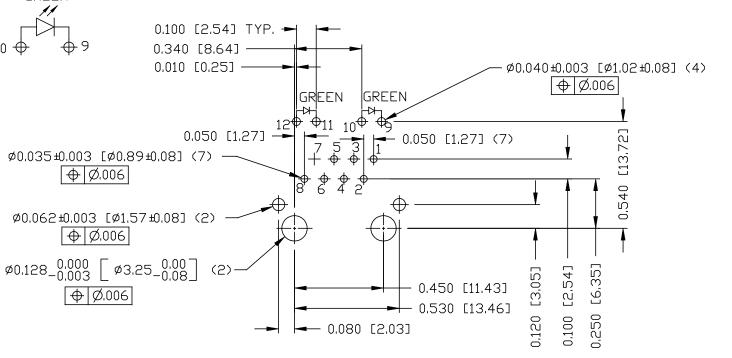


PAGE:

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\*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						
<b>DATE</b> 2018-01-31						
DRAWN BY						
LIU DONGJUN						
<b>DATE</b> 2018-01-31						
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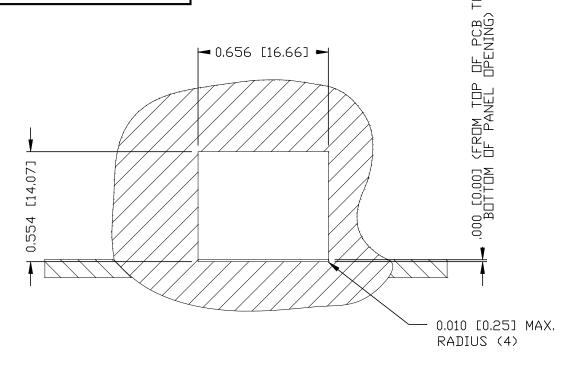
TITLE

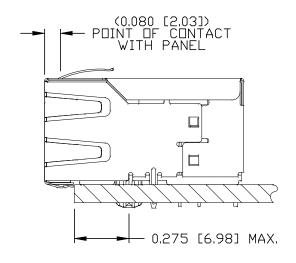
					REV. :	
10/100BT MagJack® TAB UP, SHIELDED	PART NO. / DRAWING NO.	STAND	ARD DIM.	[ ] METRIC DIM.	24.5	
	SI-50170-F	TOL.	IN INCH	AS REF.		
		.x		UNIT : INCH [mm]		
	FILE NAME	.xx		SCALE : N/A	7	
	SI-50170-F_B.DWG	.xxx	±0.005	SIZE : A4	7	

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SUGGESTED PANEL DPENING

## NOTES:

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

						L
ORIGINATED BY ANTON LIAO	TITLE	MOT TAT TATOTT AC 1		[ ] METRIC DIM. AS REF.	Γ	
DATE 2018-01-31	10/100BT MagJack®	SI-50170-F	.x		UNIT : INCH [mm]	
DRAWN BY Liu Dongjun	TAB UP, SHIELDED	FILE NAME	.XX		SCALE : N/A	
<b>DATE</b> 2018-01-31		SI-50170-F_B.DWG	.xxx	±0.005	SIZE : A4	

REV. : B PAGE : 5

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