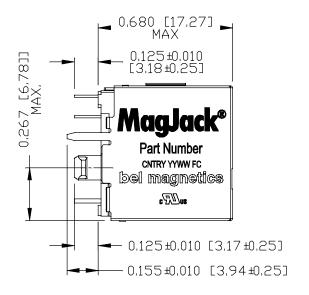
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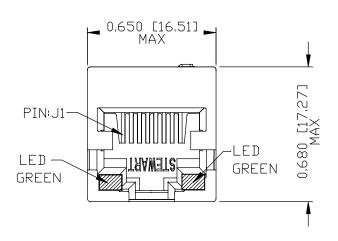


## ELECTRICAL CHARACTERISTICS @ 25°C CURRENT CAPABILITY FOR POWER LINES: 400 mA MAX 1.0 INDUCTANCE: PINS SCHEMATIC RJ45 (P4-P6) 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS (P1-P3) 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS 2,0 TURNS RATIO: TD+ P1 J1 TX+ (P4-P5-P6):(J3-J6) 1CT : 1CT ± 3% (P1-P2-P3);(J1-J2) 1CT : 1CT ± 3% TCT P2 3.0 LEAKAGE INDUCTANCE: TD- P3 1:1 J2 TX-P4-P6 (WITH J3 AND J6 SHORT) 0.3 uH MAX. @ 1MHz P1-P3 (WITH J1 AND J2 SHORT) 0.3 uH MAX. @ 1MHz J3 RX+ RD+ P4 4.0 INTERWINDING CAPACITANCE: TCT P5 (P4,P5,P6) TD (J3,J6) 30pF MAX. @ 1 MHz (P1.P2.P3) T0 (J1.J2) 30pF MAX, @ 1 MHz RD- P6 J6 RX-5.0 DC RESISTANCE: J4 (J3-J6)=(J1-J2)1.2 DHMS MAX. POWER Р9 J5 6.0 RETURN LOSS: (P4-P6)=100 OHMS AND (P1-P3)=100 OHM REF. 1MHz TO 30MHz -18dB MIN. J7 60MHz TO 80MHz POWER -12dB MIN. P10 NOTE: 100 DHMS CONNECTED TO (J1-J2) DR (J3-J6), J8 7.0 DIELECTRIC WITHSTAND: (J1, J2) T0 (P1, P3) 1500 VAC (J3, J6) TO (P4,P6) 1500 VAC 8.0 INSERTION LOSS: RS=RL=100 ohms 2X 75 DHMS 100KHz T□ 100MHz -1.1 dB 9.0 RISE TIME: RS=100 DHMS AND RL = 100 DHMS DUTPUT VOLTAGE = 1 V peak 3.0 nS MAX 1000pF 2kV 3.0 nS MAX PULSE WIDTH= 112nS P7 10.0 CROSS TALK: 1MHz TD 100MHz -40 dB TYP 11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TD 100MHz -35dB TYP 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED 12.0 OPERATING TEMPERATURE RANGE: 0°C TO +70°C 2 REV. : PAGE: ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM [ ] METRIC DIM. CHOW WANCHUNG MagJack® TOL. IN INCH AS REF. SI-46020-F **DATE** 2021-01-06 10/100BT UNIT: INCH [mm] X. DRAWN BY FILE NAME VERTICAL, SHIELDED SCALE : N/A TANG YUAN .XX a bel group SI-46020-F C.DWG 2021-01-06 DATE 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.

   STUB 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.

						R
ORIGINATED BY SANDY LIN	TITLE	PART NO. / DRAWING NO.		ARD DIM.		
DATE 2021-01-06	MagJack <sup>®</sup>	SI-46020-F	TOL.	IN INCH	AS REF. UNIT: INCH [mm]	ł
DRAWN BY Ruan Wenjun	10/100BT VERTICAL, SHIELDED	FILE NAME	$\frac{X}{XX}$		SCALE : N/A	ł
DATE 2021-01-06	VERTIONE, SHILLDED	SI-46020-F_C.DWG	.XXX	±0,005	SIZE : A4	
70000(0)400044	ma · ·	1 1 1 1 1 1 1	1 (77)		11 1 10 1 1	<del></del>

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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)

0,100 [2,54] [3,89] 0.050 [1.27] -0,153 0,250 0,162 0.050 [1.27](9) Ø0,035±0,003 [Ø0,89±0,08] (10) -Ø0,006 (SIGNAL) PIN #1 Ø0,062±0,003 [Ø1,57±0,08] (2) (SHIELD) ⊕ Ø0,006 GRN 0.085 [2.16] -Ø0.125<sup>+0.003</sup> Ø3.18 + 0.08 ] 0.024 [0.61] -0,374 [9,50] (POSTS) 0,100 [2,54] (2) 0,450 [11,43] \$\\\\\phi\_0.040\text{\pm}0.003 \quad [\phi\_1.02\text{\pm}0.08] (4)\$ 0.535 [13.59] → Ø0,006 (LED'S)

LED POLARITY

(ENLARGED VIEW)

SINGLE COLOR LED

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

ALL CENTERLINE DIMENSIONS ARE BASIC.

						REV.
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STAND.	ARD DIM.	[ ] METRIC DIM.	
SANDY LIN <b>DATE</b> 2021-01-06	MagJack <sup>®</sup>	SI-46020-F	TOL.	IN INCH	AS REF.	3
	10/100BT		.x		UNIT : INCH [mm]	
DRAWN BY Ruan Wenjun	VERTICAL, SHIELDED	FILE NAME	.XX	<del>- / -</del>	SCALE : N/A	त्
DATE 2021-01-06		SI-46020-F_C.DWG	.XXX	£0,005	SIZE : A4	

REV. : C PAGE : 4

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