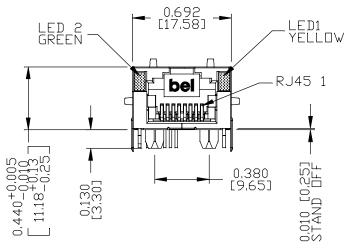
### Additional Resources: Product Page PCB Footprint Technical Documentation

THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE LED1 POLARITY LED2 POLARITY COPIED, REPRODUCED OR DISCLOSED WITHOUT THE PRELIMINARY WRITTEN APPROVAL OF BEL FUSE INC. PIN 15 PIN 16 PIN 13 PIN 14 COLOR COLOR **GREEN** YELLOW ELECTRICAL CHARACTERISTICS @ 25°C LED 1 SCHEMATIC 13 TURNS RATIO RJ45 YELLOW ΤX 1CT : 1RX 1CT : 1OCL @ 100kHz/100mVRMS (0-70°C) 8mA DC BIAS 350µH MIN. 11 • 1CT : 1 INS, LOSS TX+ 0.1MHz TO 1MHz -1.1 dB MAX 12 TD+-0,5 dB MAX 1MHz TO 65MHz 2 TX-TD-10 65MHz TO 100MHz -0,8 dB MAX 1CT : 1 -1,2 dB MAX 100MHz TD 125MHz 3 RX+ RD+ RET, LOSS (MIN) @ 100 □HMS +/- 15% RD- $\mathcal{M}$ 0.5MHz - 40MHz $-18 \, dB$ 6 RX-40MHz-100MHz  $-12+20L\Box G(f/80MHz) dB$ RCT 5 CM TO CM REJ 100kHz - 100MHz -30 dB MIN 5 CM TO DM REJ 7 100kHz - 100MHz -35 dB MIN HIPOT (Isolation Voltage): 1500 Vrms or 2250 VDC 15 100% OF PRODUCT TESTED IN PRODUCTION GREEN 4X 75 DHMS LED 1 16 VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP. LED 2 YELLOW 590nm TYP. AD (DOMINANT WAVELENGTH) IF=20mA 1000pF 2kV IFD 2 VF (FORWARD VOLTAGE) GREEN 2,2V TYP. IF=20mA SHIELD 7777 人D (DOMINANT WAVELENGTH) IF=20mA GRFFN 570nm TYP. □PERATING TEMPERATURE: -40 T□ +100°C 2 PΑ PAGE: REV. : ORIGINATED BY TITLE PART NO. / DRAWING NO. STANDARD DIM. [ ] METRIC DIM. CHOW WANCHUNG 10/100 MagJack® AS REF. TOL. IN INCH A829-1A1T91B DATE 2018-10-09 (Ultra Low Profile) UNIT : INCH [mm] Automotive temperature DRAWN BY FILE NAME A829-1A1T-91B SCALE : N/A XIE YIMING .XX a bel group A829-1A1T91B PA.DWG PATENTED DATE 2018-10-09 SIZE : A4

## Additional Resources: Product Page PCB Footprint Technical Documentation

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## PRELIMINARY



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK

FLAMMABILITY RATING UL 94V-0

CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT,

DUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.

100 MICRO-INCH MIN MATTE TIN.

PINS ARE SOLDER DIPPED.

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.

(ALL GROUND LEADS ARE SOLDER DIPPED)

[1] MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER, DATE CODE AND PATENTED.

2. THE PRODUCT IS ROHS COMPLIANT WITH NO EXEMPTION AND HALOGEN FREE. SEALING CLASS S1 AND VIBRATION CLASS V1.

RoHS も,020 も,511 EADS 0,055±0,020 [1,40±0,51] 55. 0.0 0,125 SIGNAL & 0.945 [24,00] 0.100 [2.54] PITCH 0,350 [8,89] -0,520 [13,20] -0,260 [6,60] 0.360 [9.14]

- 3, JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S PAT. 6,840,817.
- 5. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.
- 6. THE PRODUCT IS DESIGNED TO BE COMPATIBLE WITH THE SAE/USCAR2-6 STANDARD, TEMPERATURE CLASS T2, SEALING CLASS S1 AND VIBRATION CLASS V1.

C 7 BUS OF RECOGNIZED - FIEL #E176366 AND E167787.									
ORIGINATED BY	TITLE	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[ ] METRIC DIM.				
ANTON LIAO Date 2018-10-09	10/100 MagJack® (Ultra Low Profile)	A829-1A1T91B	TOL. IN INCH		AS REF.				
DRAWN BY	Automotive temperature	FILE NAME	.x		UNIT : INCH [mm]				
LI QUANKUN	A829-1A1T-91B		.XX		SCALE : N/A				
<b>DATE</b> 2018-10-09	PATENTED	A829-1A1T91B_PA.DWG	.xxx	±0,010	SIZE : A4				

REV. : PA PAGE : 3

MAGNETIC SOLUTIONS

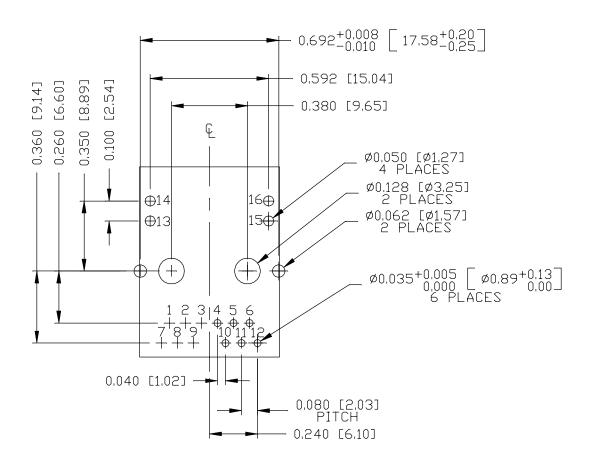
a bel group

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# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



ORIGINATED BY ANTON LIAO			
DATE	2018-10-09		
DRAWN	BY		
	ANKUN		
DATE	2018-10-09		

TITLE

10/100 MagJack®

(Ultra Low Profile)

Automotive temperature

A829-1A1T-91B

PATENTED

 PART NO. / DRAWING NO.
 STANDARD DIM.
 [ ] METRIC DIM.

 A829-1A1T91B
 TOL. IN INCH
 AS REF.

 .X
 UNIT: INCH [mm]

 .XX
 SCALE: N/A

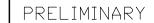
 .XXX
 ±0.004
 SIZE: A4



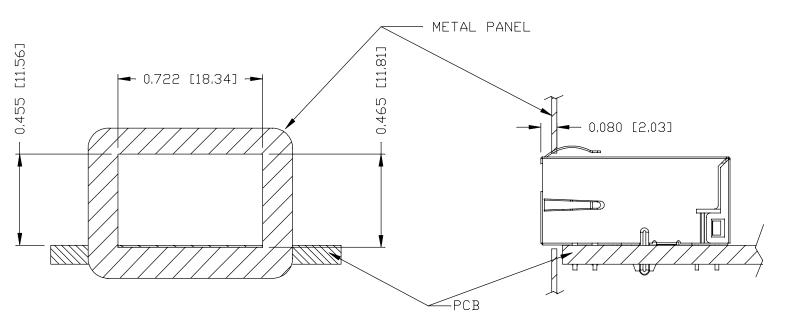
## Additional Resources: Product Page PCB Footprint Technical Documentation

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### SUGGESTED PANEL OPENING







NOTE:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION, IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

### TRAY PACKING INFORMATION

PACKING TRAY: 0200-9999-E4 (TOP)

0200-9999-E5 (BOTTOM)

PACKING QUANTITY: 60 PCS FINISHED GOODS PER TRAY

11 TRAYS (660 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX

(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY	TITLE
ANTON LIAO	10/100 MagJack®
<b>DATE</b> 2018-10-09	(Ultra Low Profile)
DRAWN BY	Automotive temperature A829-1A1T-91B
LI QUANKUN	PATENTED
DATE 2018-10-09	PAICNICD

<b>PART NO. / DRAWING NO.</b> A829-1A1T91B	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.		
FILE NAME	.X		UNIT : II	NCH [mm]	
	.XX		SCALE : N/A		
A829-1A1T91B_PA.DWG	.xxx	±0,005		SIZE : A4	

