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LED1 POLARITY			LED2 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
-	+	YELLOW	-	+	GREEN

PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

TX 1CT : 1

RX 1CT : 1

DCL @ 100kHz/100mVRMS (0-70°C)

8mA DC BIAS 350μH MIN.

INS. LOSS

0.1MHz TO 1MHz -1.1 dB MAX

1MHz TO 65MHz -0.5 dB MAX

65MHz TO 100MHz -0.8 dB MAX

100MHz TQ 125MHz -1.2 dB MAX

RET. LOSS (MIN) @ 100 OHMS +/- 15%

0.5MHz-40MHz -18 dB

40MHz-100MHz $-12+20\text{LOG}(f/80\text{MHz})$ dB

CM TO CM REJ

100kHz - 100MHz -30 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms or 2250 VDC

100% OF PRODUCT TESTED IN PRODUCTION

LED 1

VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

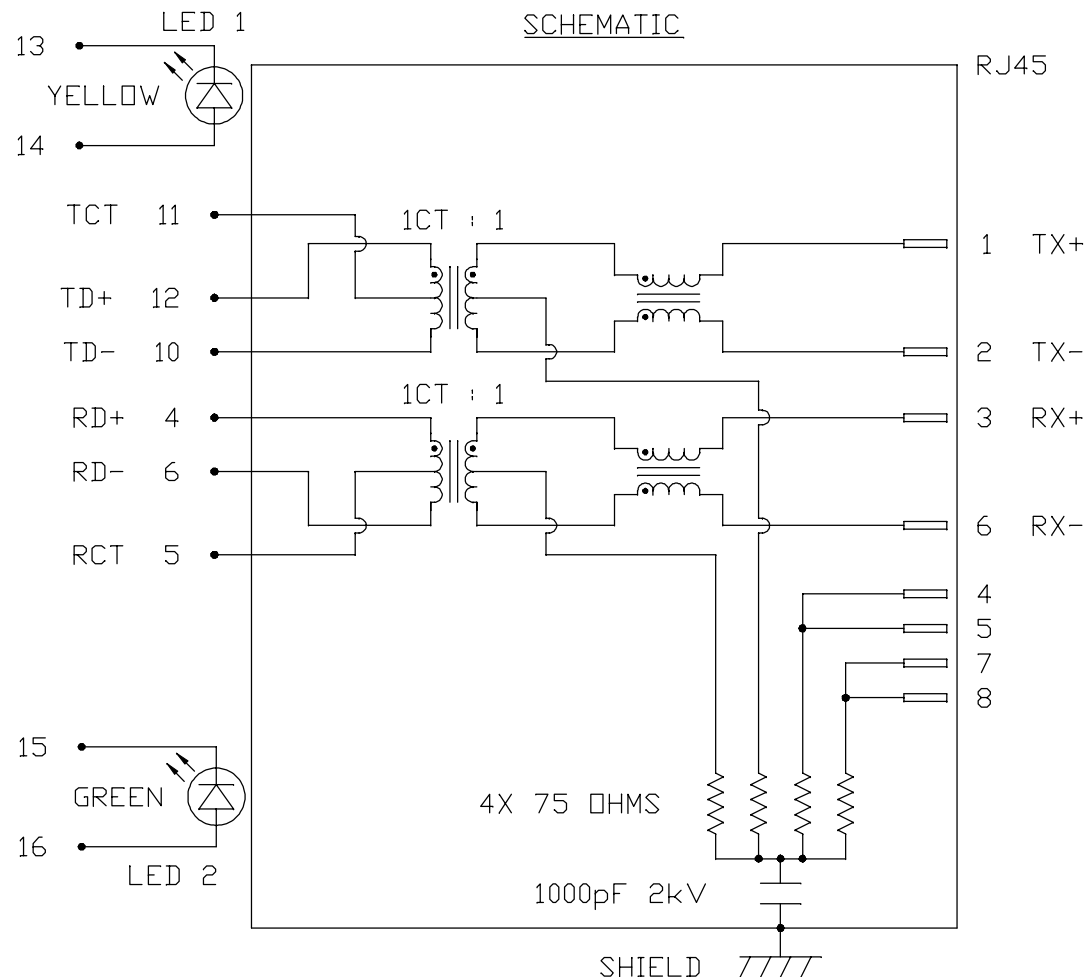
LED 2

V_F (FORWARD VOLTAGE) I_F=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

OPERATING TEMPERATURE: -40 TO +100°C

SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2018-10-09

TITLE

10/100 MagJack®
(Ultra Low Profile)
Automotive temperature
A829-1A1T-91B
PATENTED


PART NO. / DRAWING NO.
A829-1A1T91B

FILE NAME
A829-1A1T91B_PA.DWG

STANDARD DIM.	
TOL. IN INCH	

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]	
SCALE : N/A	
	SIZE : A4

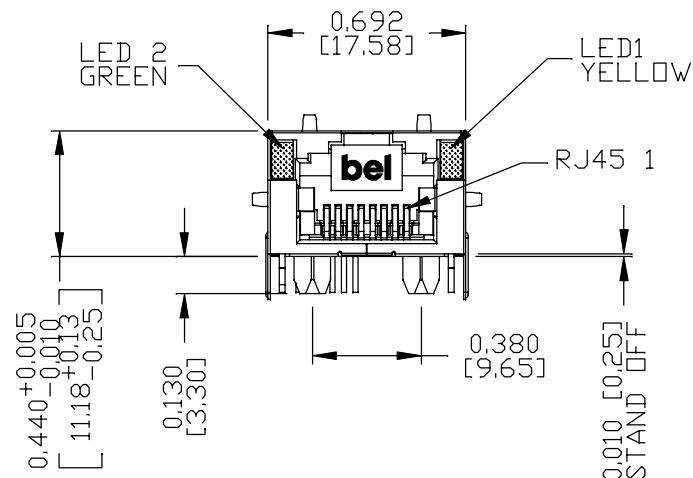
REV. : PA

PAGE : 2



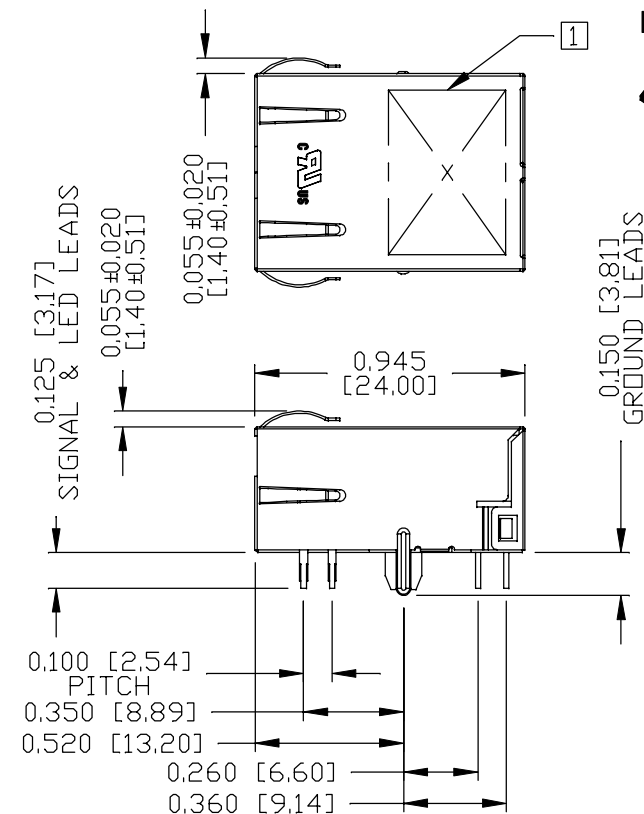
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PRELIMINARY




NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
FLAMMABILITY RATING UL 94V-0
- CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
- OUTPUT 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.
- UL RECOGNIZED - FILE #E196366 AND E169987.



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.

ORIGINATED BY ANTON LIAO DATE 2018-10-09		TITLE 10/100 MagJack® (Ultra Low Profile) Automotive temperature A829-1A1T-91B PATENTED	PART NO. / DRAWING NO. A829-1A1T91B		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.		 bel MAGNETIC SOLUTIONS a bel group
DRAWN BY LI QUANKUN DATE 2018-10-09			FILE NAME A829-1A1T91B_PA.DWG		.X		UNIT : INCH [mm]		
					.XX		SCALE : N/A		
					.XXX		SIZE : A4		

DC002(2)120214

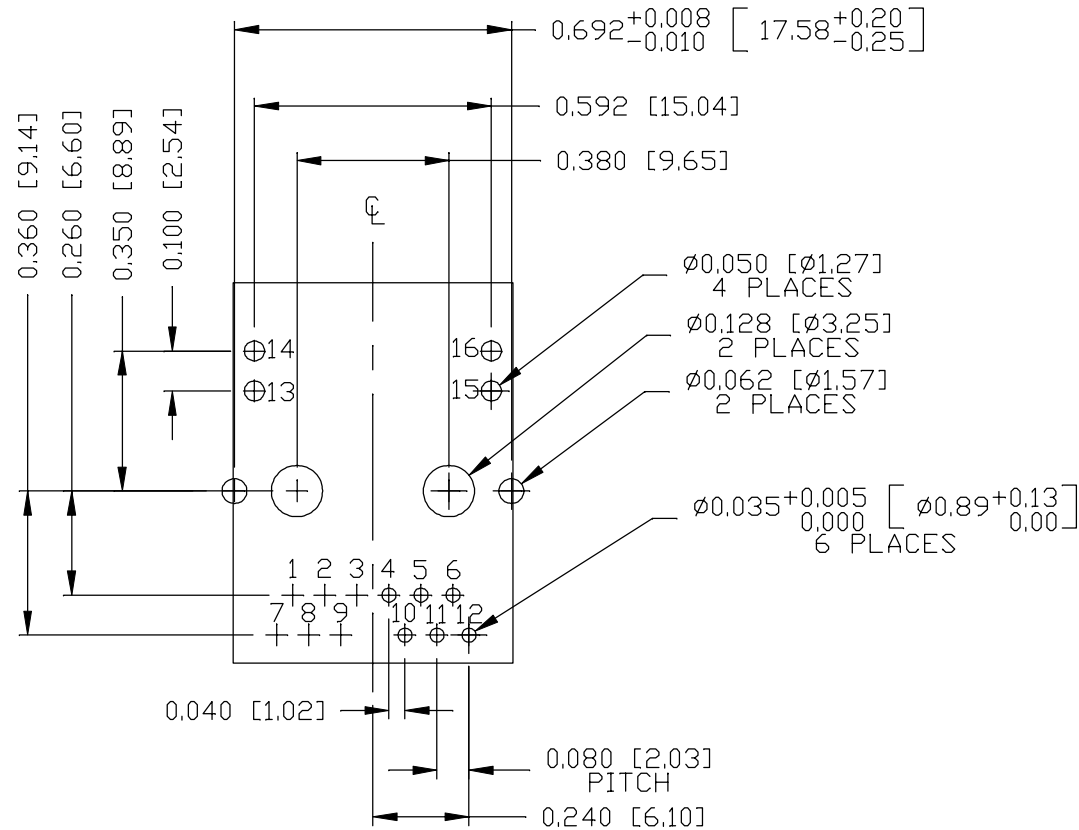
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PRELIMINARY



RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW



ORIGINATED BY
ANTON LIAD
DATE 2018-10-09

DRAWN BY
LI QUANKUN
DATE 2018-10-09

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Automotive temperature
A829-1A1T-91B
PATENTED

PART NO. / DRAWING NO.
A829-1A1T91B

FILE NAME
A829-1A1T91B_PA.DWG

STANDARD DIM.
TOL. IN INCH

.X

.XX

.XXX

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : PA

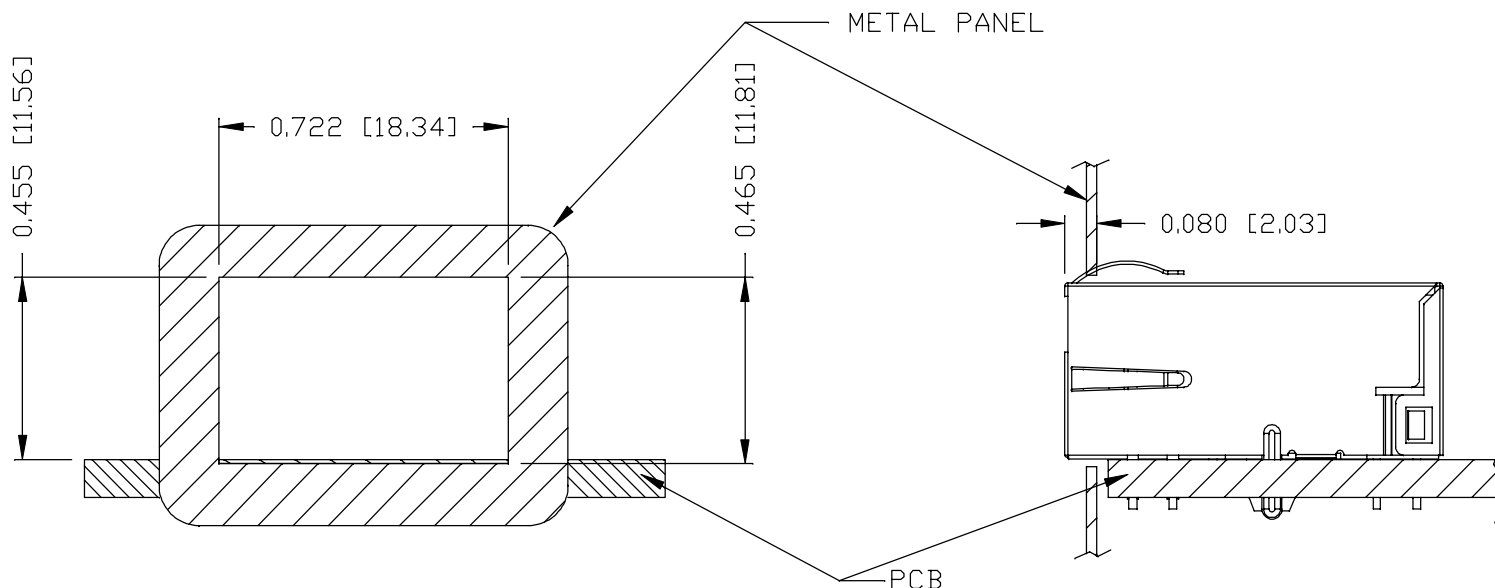
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SUGGESTED PANEL OPENING

PRELIMINARY

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)

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A829-1A1T-91B
PATENTED

PART NO. / DRAWING NO.
A829-1A1T91B

FILE NAME
A829-1A1T91B_PA.DWG

STANDARD DIM.
TOL. IN INCH

.X	
.XX	
.XXX	±0.005

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : PA

PAGE : 5

