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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

#### URNS RATIO

|                        |            |
|------------------------|------------|
| TX                     | 1CT : 1    |
| RX                     | 1CT : 1    |
| OC L @ 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 TO 125MHz | -1.2 dB MAX |

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

|              |                       |
|--------------|-----------------------|
| 0.5MHz-40MHz | -18 dB                |
| 40MHz-100MHz | -12+20LOG(f/80MHz) 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

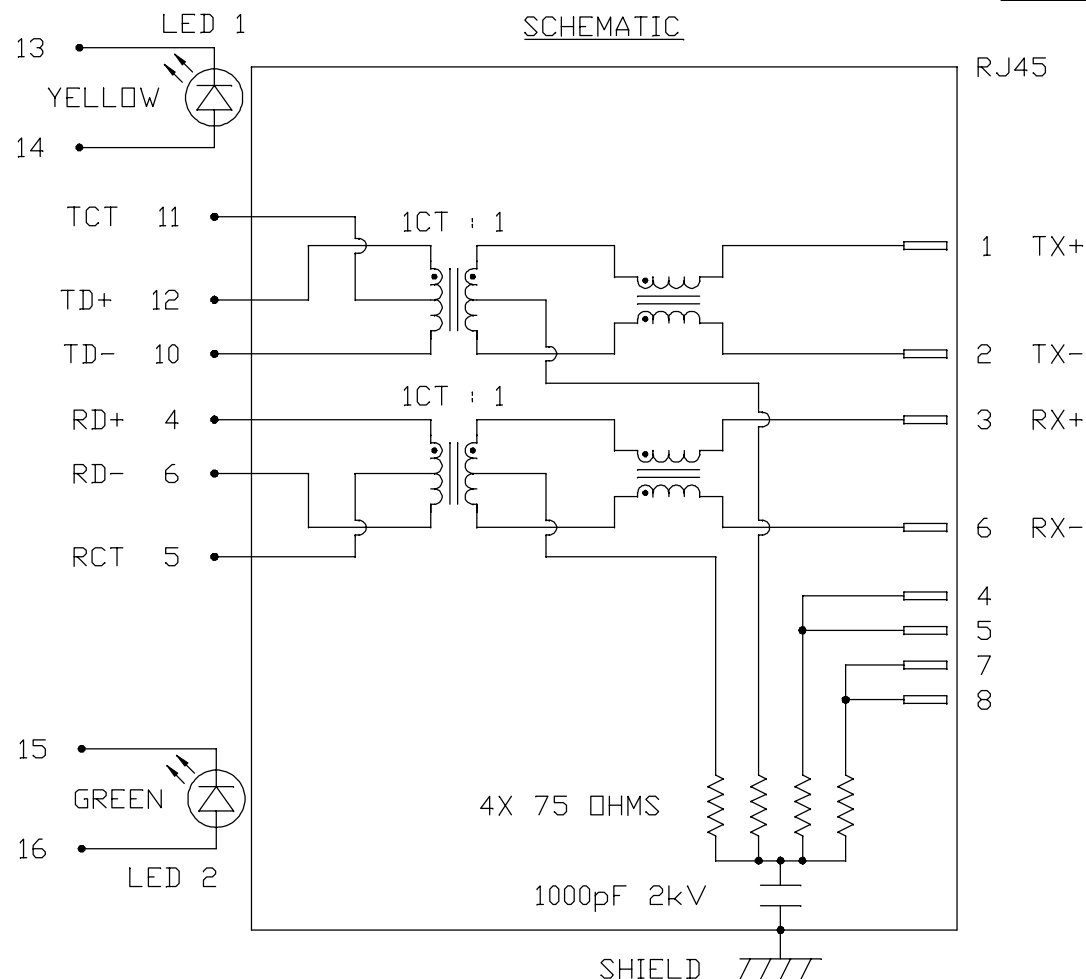
#### LED 1

|                                      |                      |                   |
|--------------------------------------|----------------------|-------------------|
| V <sub>F</sub> (FORWARD VOLTAGE)     | I <sub>F</sub> =20mA | YELLOW 2.1V TYP.  |
| λ <sub>D</sub> (DOMINANT WAVELENGTH) | I <sub>F</sub> =20mA | YELLOW 590nm TYP. |

#### LED 2

|                                      |                      |                  |
|--------------------------------------|----------------------|------------------|
| V <sub>F</sub> (FORWARD VOLTAGE)     | I <sub>F</sub> =20mA | GREEN 2.2V TYP.  |
| λ <sub>D</sub> (DOMINANT WAVELENGTH) | I <sub>F</sub> =20mA | GREEN 570nm TYP. |

OPERATING TEMPERATURE: -40 TO +100°C



ORIGINATED BY  
CHOW WANCHUNG  
DATE 2018-10-09

DRAWN BY  
XIE YIMING  
DATE 2018-10-09

TITLE  
10/100 MagJack®  
(Ultra Low Profile)  
Automotive temperature  
A836-1A1T-91B  
PATENTED

PART NO. / DRAWING NO.  
A836-1A1T91B

FILE NAME  
A836-1A1T91B\_PA.DWG

STANDARD DIM.  
TOL. IN INCH

[ ] METRIC DIM.  
AS REF.  
UNIT : INCH [mm]  
SCALE : N/A  
SIZE : A4

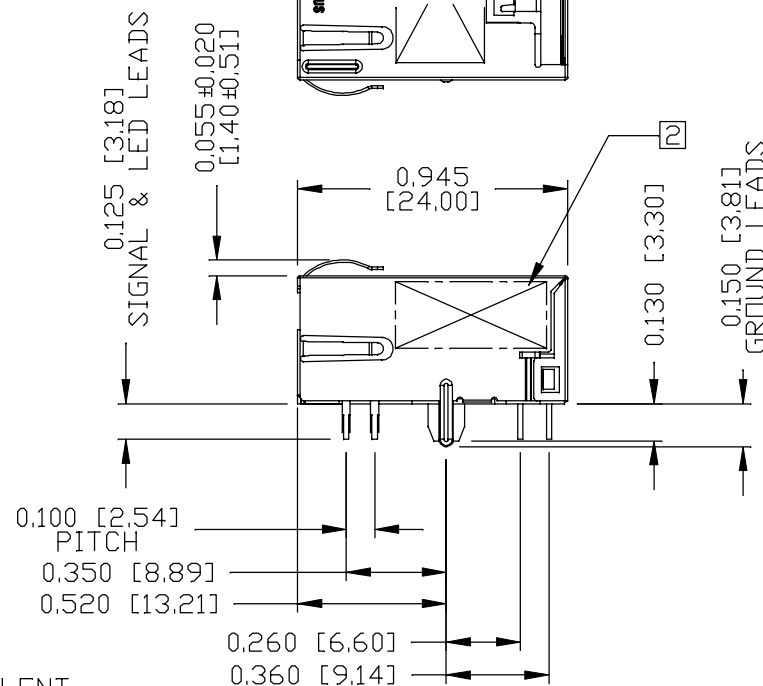
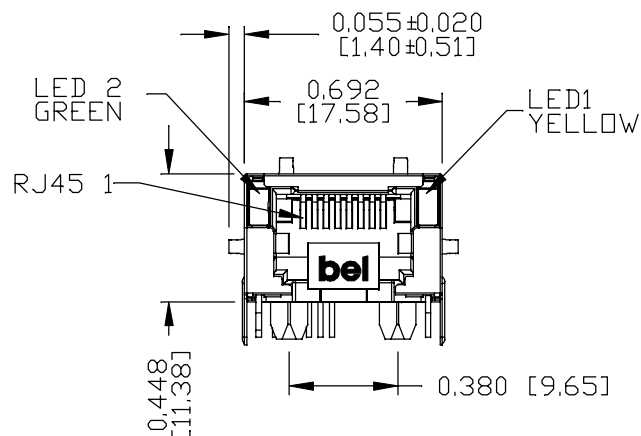
REV. : PA

PAGE : 2



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# 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 PART NUMBER, DATE CODE AND PATENTED.

[2] MARK PART WITH MFG. LOGO, MFG. NAME.

2. THE PRODUCT IS RoHS COMPLIANT WITH NO EXEMPTION AND HALOGEN FREE.  
 4. 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 AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.  
 7. THE PRODUCT IS DESIGNED TO BE COMPATIBLE WITH THE SAE/USCAR2-6 STANDARD, TEMPERATURE CLASS T2, SEALING CLASS S1 AND VIBRATION CLASS V1.

UL RECOGNIZED - FILE #E196366 AND E169987.

|                                                                                                 |                                                                                                            |                                                                                |                                                           |                                                                            |                            |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|
| ORIGINATED BY<br>ANTON LIAD<br>DATE 2018-10-09<br><br>DRAWN BY<br>LI QUANKUN<br>DATE 2018-10-09 | TITLE<br><br>10/100 MagJack®<br>(Ultra Low Profile)<br>Automotive temperature<br>A836-1A1T-91B<br>PATENTED | PART NO. / DRAWING NO.<br>A836-1A1T91B<br><br>FILE NAME<br>A836-1A1T91B_PA.DWG | STANDARD DIM.<br>TOL. IN INCH<br>.X<br>.XX<br>.XXX ±0.010 | [ ] METRIC DIM.<br>AS REF.<br>UNIT : INCH [mm]<br>SCALE : N/A<br>SIZE : A4 | REV. : PA PAGE : 3<br><br> |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|

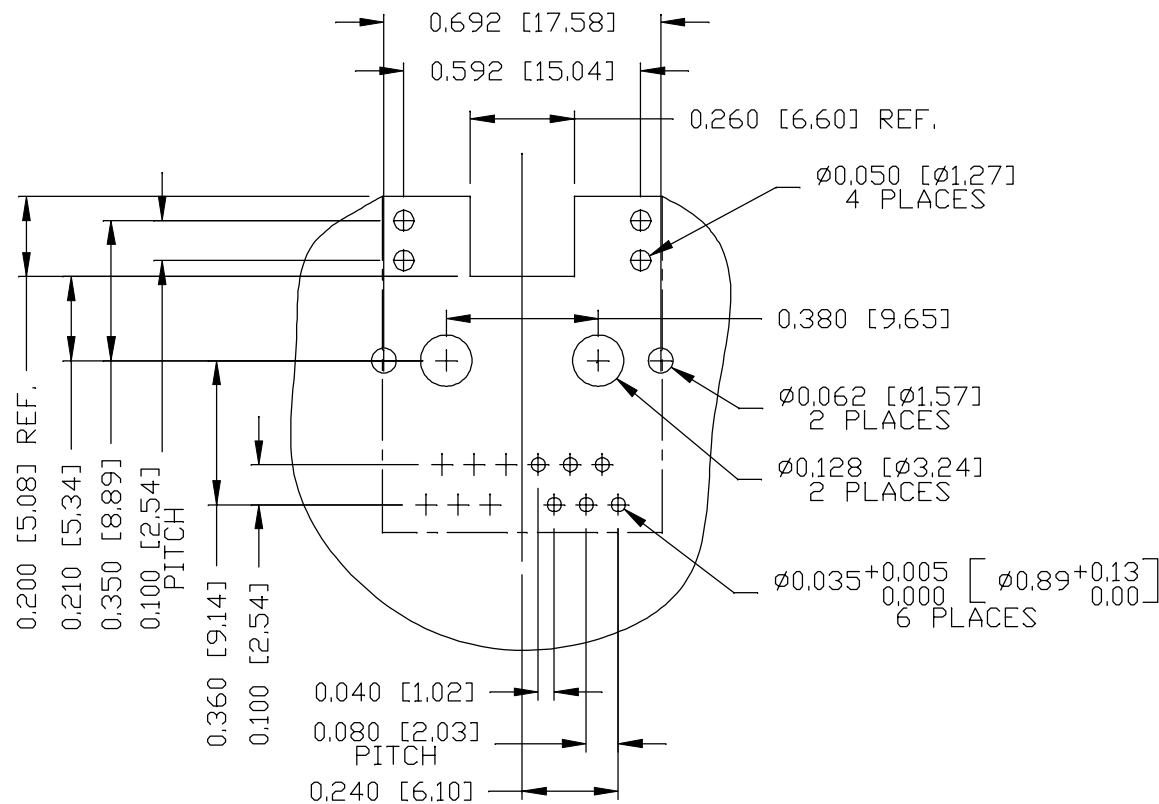
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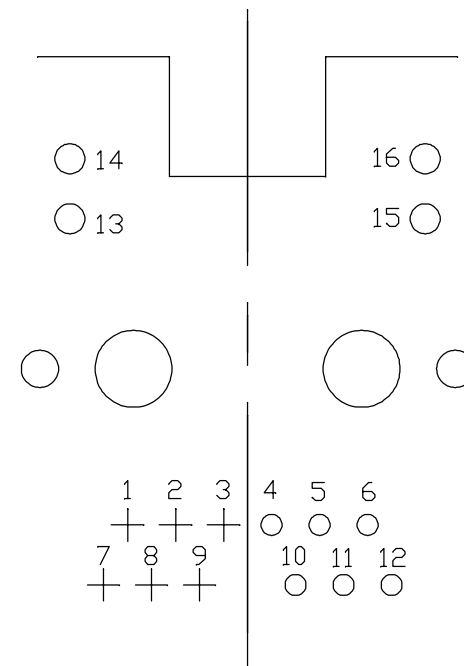


# RECOMMENDED PCB FOOTPRINT

## COMPONENT SIDE VIEW



FOR ONE UNIT



PIN-OUT INFORMATION

(SCALE 1.5:1)

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DATE 2018-10-09

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Automotive temperature  
A836-1A1T-91B  
PATENTED

PART NO. / DRAWING NO.  
A836-1A1T91B

FILE NAME  
A836-1A1T91B\_PA.DWG

STANDARD DIM.  
TOL. IN INCH

.X  
.XX  
.XXX  
±0.004

[ ] METRIC DIM.  
AS REF.

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

REV. : PA

PAGE : 4

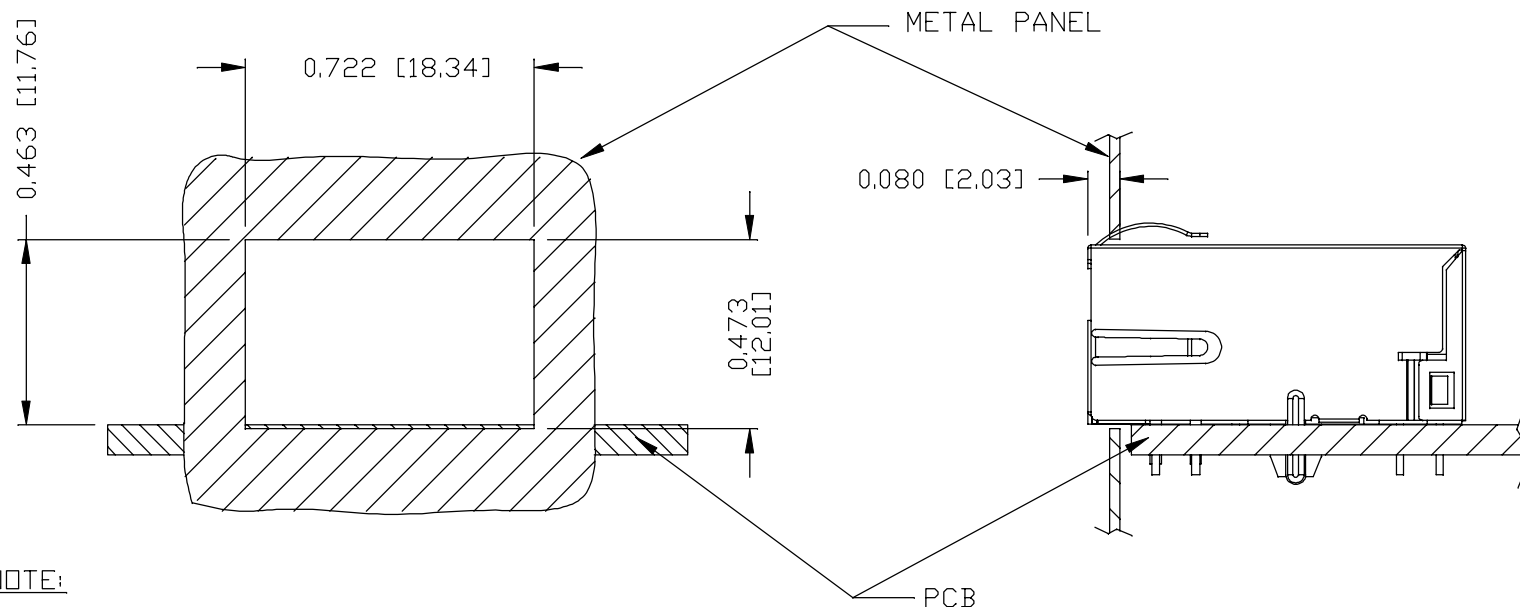


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# SUGGESTED PANEL OPENING



## 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)

REV. : PA PAGE : 5

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PATENTED

PART NO. / DRAWING NO.  
A836-1A1T91B

FILE NAME  
A836-1A1T91B\_PA.DWG

| STANDARD DIM.<br>TOL. IN INCH |        | [ ] METRIC DIM.<br>AS REF. |
|-------------------------------|--------|----------------------------|
| .X                            |        | UNIT : INCH [mm]           |
| .XX                           |        | SCALE : N/A                |
| .XXX                          | ±0.005 | SIZE : A4                  |



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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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