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

# ELECTRICAL CHARACTERISTICS @ 25°C

## URNS RATIO

|                                   |                       |
|-----------------------------------|-----------------------|
| TP1                               | 1CT : 1CT ±2%         |
| TP2                               | 1CT : 1CT ±2%         |
| TP3                               | 1CT : 1CT ±2%         |
| TP4                               | 1CT : 1CT ±2%         |
| ΩCL @ 100kHz/100mVRMS             | (0-70 Deg. 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 ΩHMS +/-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 |

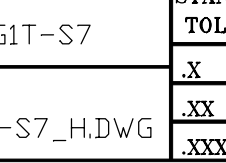
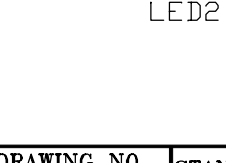
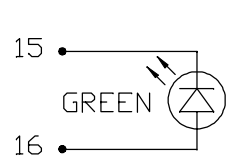
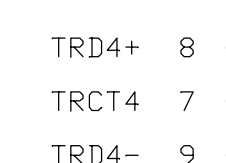
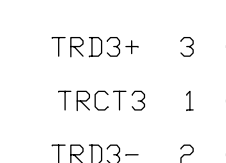
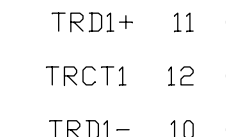
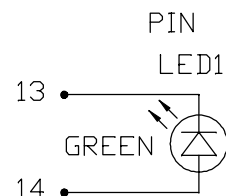
|               |            |
|---------------|------------|
| CROSS TALK    |            |
| 1MHz - 100MHz | -30 dB MIN |

|                                                                             |           |
|-----------------------------------------------------------------------------|-----------|
| HIPOT (Isolation Voltage):                                                  | 1500 Vrms |
| 100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS. |           |

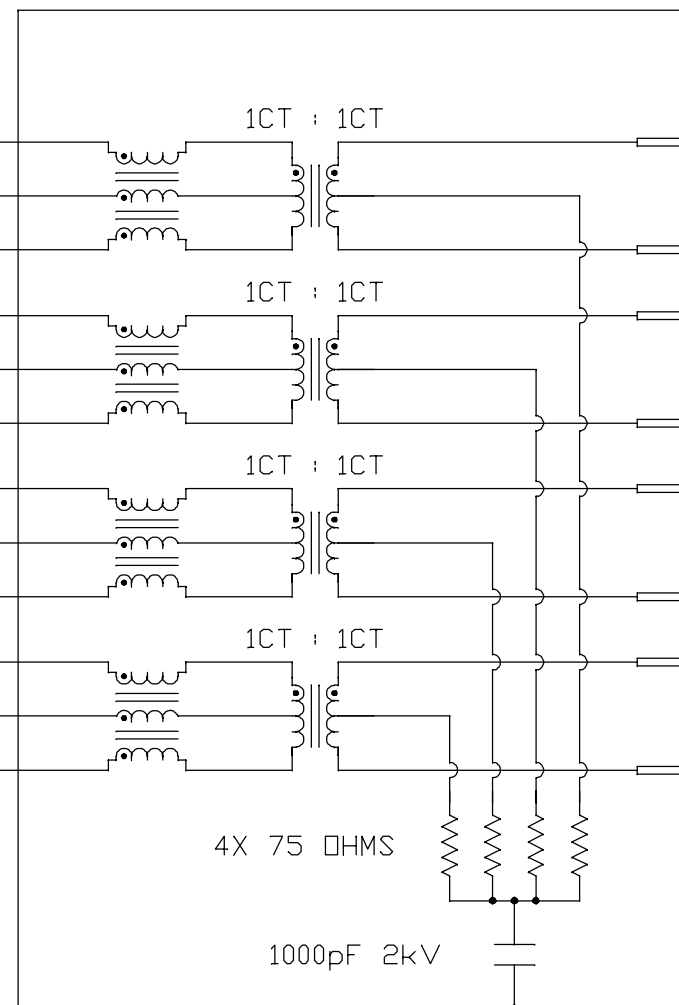
## LED 1& LED2

|                          |         |       |            |
|--------------------------|---------|-------|------------|
| VF (FORWARD VOLTAGE)     | IF=20mA | GREEN | 2.2V TYP.  |
| λD (DOMINANT WAVELENGTH) | IF=20mA | GREEN | 570nm TYP. |

OPERATING TEMPERATURE: 0°C TO +70°C.



## SCHEMATIC



RJ45

1 TRP1+

2 TRP1-

3 TRP2+

6 TRP2-

4 TRP3+

5 TRP3-

7 TRP4+

8 TRP4-

SHIELD

REV. : H PAGE : 2

ORIGINATED BY  
CHOW WANCHUNG  
DATE 2017-03-11

DRAWN BY  
LINFENG LI  
DATE 2017-03-11

TITLE  
gigabit MagJack®  
(NanoJack)  
PATENTED

PART NO. / DRAWING NO.  
L834-1G1T-S7

FILE NAME  
L834-1G1T-S7\_H.DWG

STANDARD DIM.  
TOL. IN INCH [ ] METRIC DIM.  
AS REF.

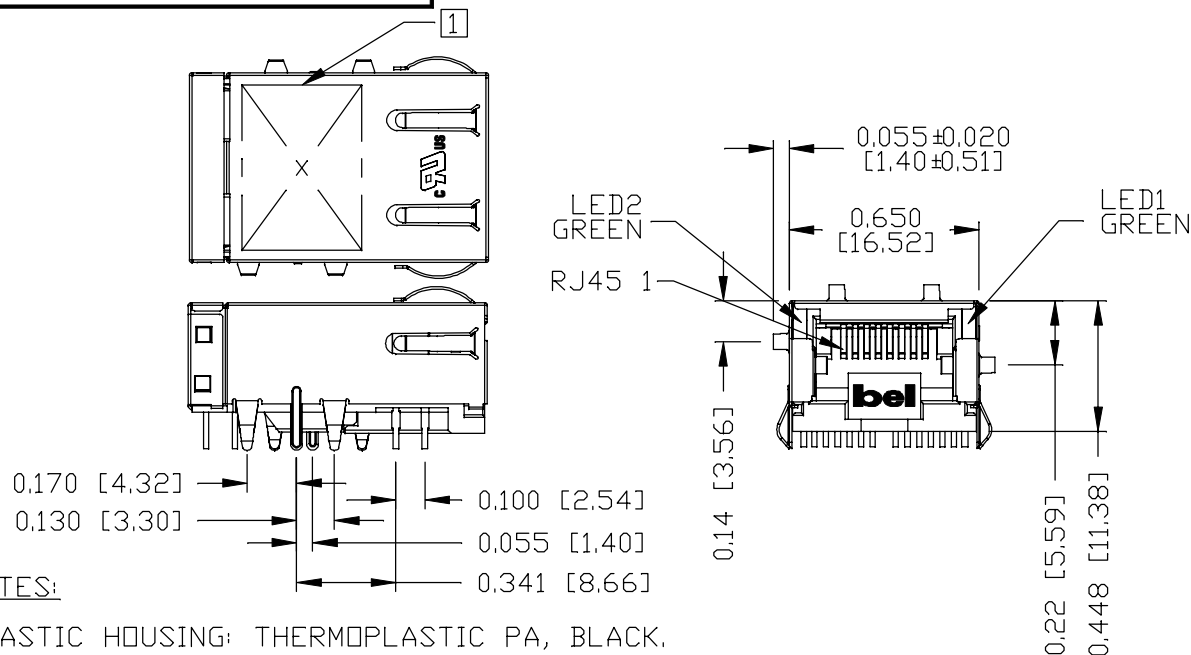
.X  
.XX  
.XXX  
UNIT : INCH [mm]  
SCALE : N/A  
SIZE : A4



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## MECHANICAL SPECIFICATION

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### NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PA, BLACK.  
FLAMMABILITY RATING UL 94V-0
- CONTACTS: 30 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, AND DATE CODE.

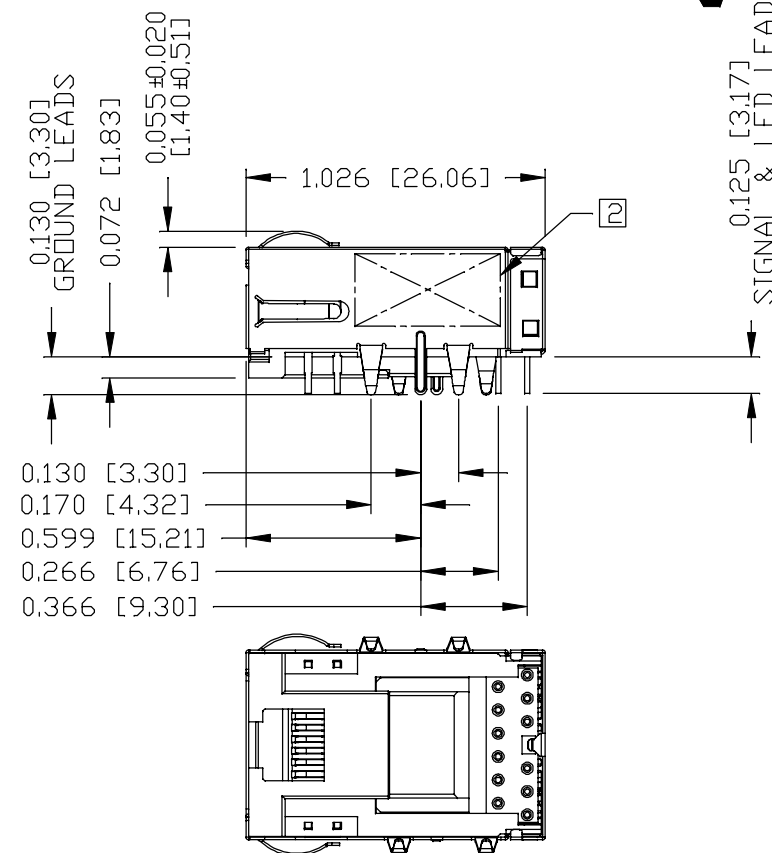
2. MARKING "PATENTED".

3. THE PRODUCT IS RoHS COMPLIANT,  UL RECOGNIZED - FILE #E196366 AND E169987.

4. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

5. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

6. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.



ORIGINATED BY  
SANDY LIN  
DATE 2017-03-11

DRAWN BY  
XUE RIPING  
DATE 2017-03-11

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gigabit MagJack®  
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PATENTED

PART NO. / DRAWING NO.  
L834-1G1T-S7

FILE NAME  
L834-1G1T-S7\_H.DWG

STANDARD DIM.  
TOL. IN INCH

.X  
.XX  
.XXX

[ ] METRIC DIM.  
AS REF.

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

REV. : H

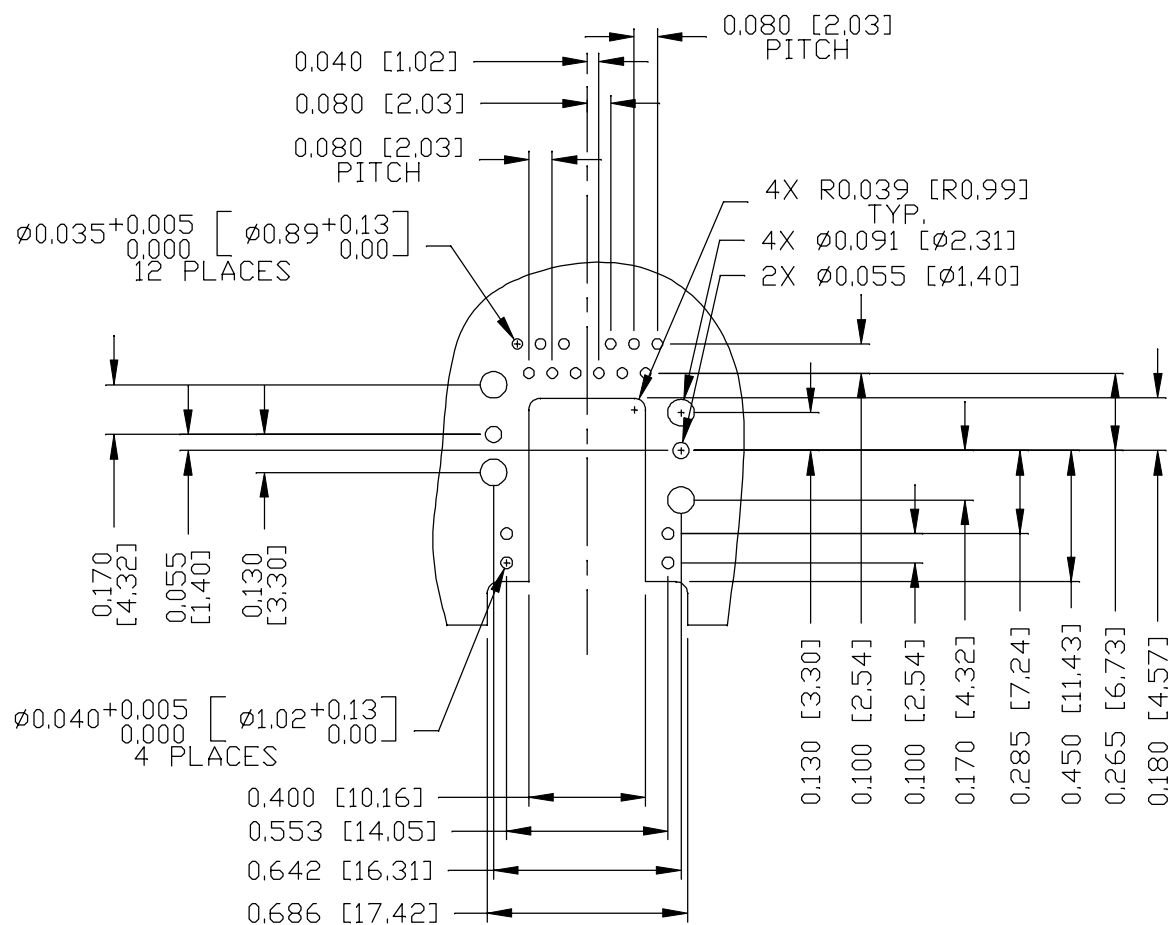
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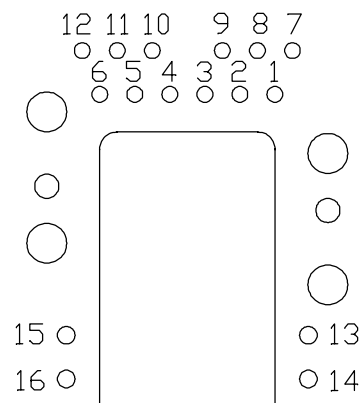
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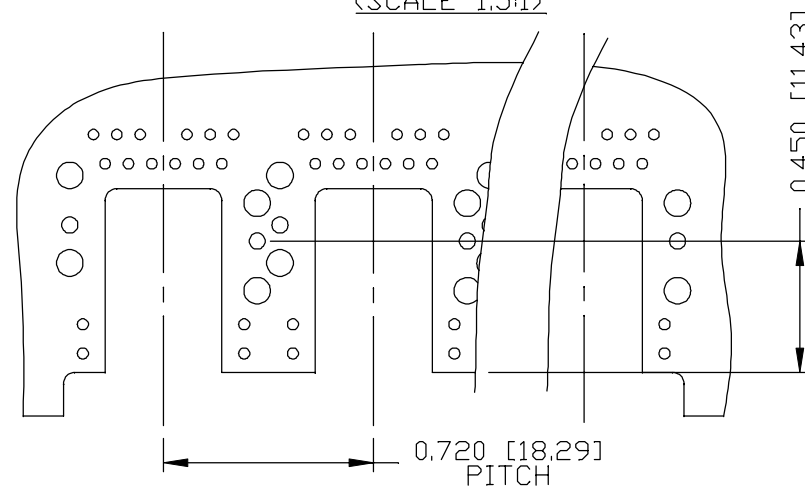
# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



FOR ONE UNIT



PIN-OUT ASSIGNMENT  
(SCALE 1.5:1)



FOR MULTI-UNITS

ORIGINATED BY  
SANDY LIN  
DATE 2017-03-11

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PATENTED

PART NO. / DRAWING NO.  
L834-1G1T-S7

FILE NAME  
L834-1G1T-S7\_H.DWG

STANDARD DIM.  
TOL. IN INCH

.X  
.XX  
.XXX

[ ] METRIC DIM.  
AS REF.

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

REV. : H

PAGE : 4

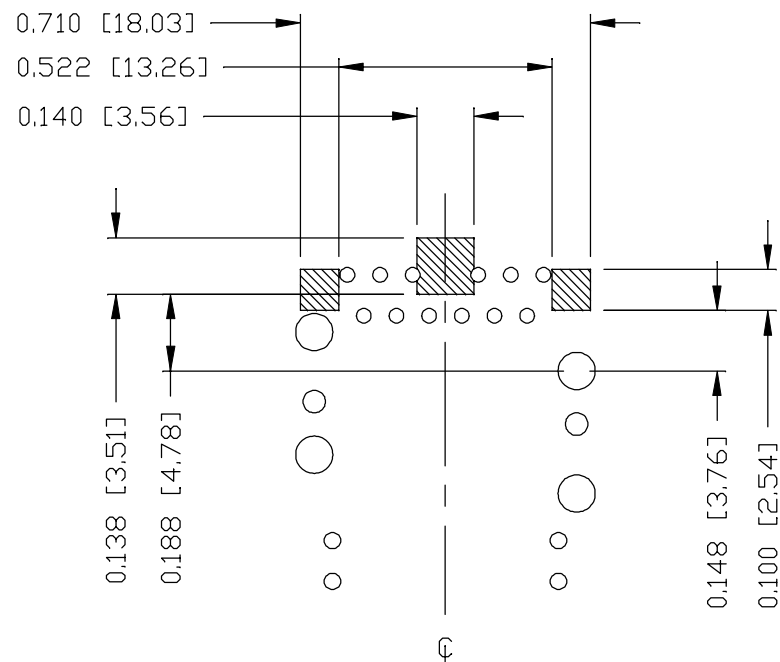


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# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



## NOTES

THE SHADED AREA ON THE CUSTOMER BOARD ARE  
RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR  
COMPONENT PAD.

ORIGINATED BY  
SANDY LIN  
DATE 2017-03-11

DRAWN BY  
XUE RIPING  
DATE 2017-03-11

TITLE  
glgabit MagJack®  
(NanoJack)  
PATENTED

PART NO. / DRAWING NO.  
L834-1G1T-S7

FILE NAME  
L834-1G1T-S7\_H.DWG

| STANDARD DIM.<br>TOL. IN INCH |        | [ ] METRIC DIM.<br>AS REF. |
|-------------------------------|--------|----------------------------|
| .X                            |        | UNIT : INCH [mm]           |
| .XX                           |        | SCALE : N/A                |
| .XXX                          | ±0.004 | SIZE : A4                  |

|          |          |
|----------|----------|
| REV. : H | PAGE : 5 |
|----------|----------|



**bel**  
a bel group

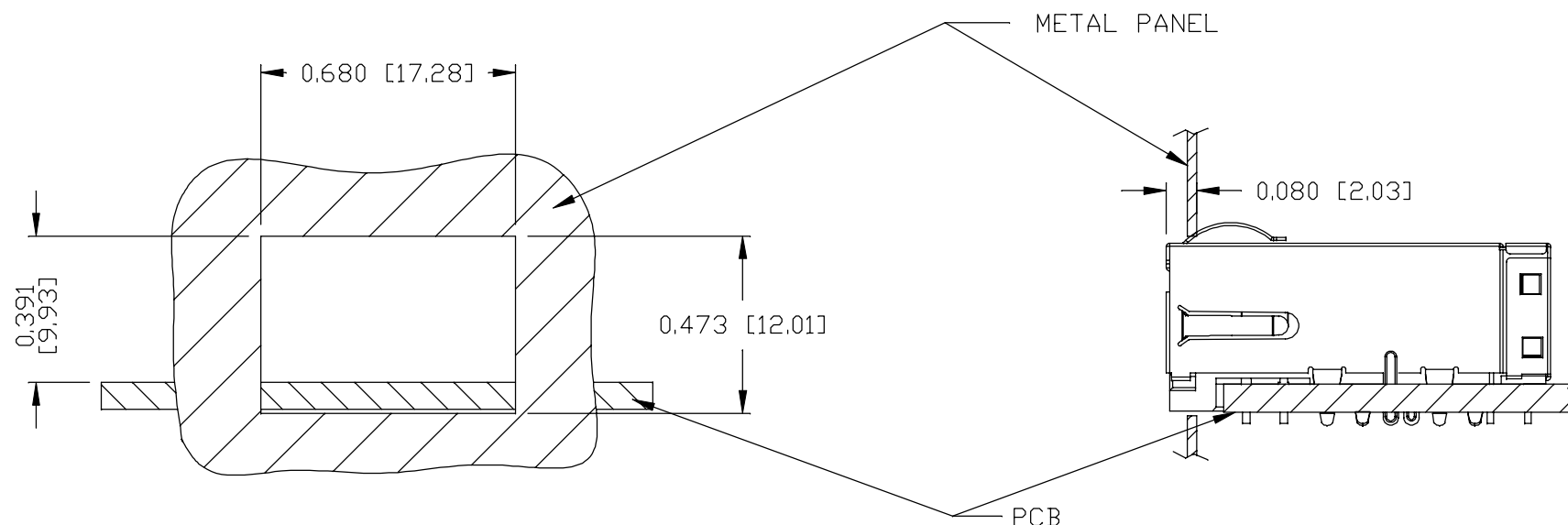
**MAGNETIC  
SOLUTIONS**

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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.

## PACKING INFORMATION

PACKING TRAY : 0200-9999-M3(TOP)

0200-9999-M4(BOTTOM)

PACKING QUANTITY : 65 PCS FINISHED GOODS PER TRAY.

12 TRAYS (780 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. : H PAGE : 6

|                                               |                                                     |                                        |                               |                                              |                                                                                       |
|-----------------------------------------------|-----------------------------------------------------|----------------------------------------|-------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------|
| ORIGINATED BY<br>SANDY LIN<br>DATE 2017-03-11 | TITLE<br>gigabit MagJack®<br>(NanoJack)<br>PATENTED | PART NO. / DRAWING NO.<br>L834-1G1T-S7 | STANDARD DIM.<br>TOL. IN INCH | [ ] METRIC DIM.<br>AS REF.                   |  |
| DRAWN BY<br>XUE RIPING<br>DATE 2017-03-11     |                                                     | FILE NAME<br>L834-1G1T-S7_H.DWG        | .X<br>.XX<br>.XXX             | UNIT : INCH [mm]<br>SCALE : N/A<br>SIZE : A4 |                                                                                       |
|                                               |                                                     |                                        | ±0.004                        |                                              |                                                                                       |