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| LED1 POLARITY |        |        | LED2 POLARITY |        |        |
|---------------|--------|--------|---------------|--------|--------|
| PIN 17        | PIN 18 | COLOR  | PIN 19        | PIN 20 | COLOR  |
| +             | -      | YELLOW | +             | -      | YELLOW |
| -             | +      | GREEN  | -             | +      | GREEN  |

#### ELECTRICAL CHARACTERISTICS @ 25°C

##### URNS RATIO

|     |           |
|-----|-----------|
| TP1 | 1CT : 1CT |
| TP2 | 1CT : 1CT |
| TP3 | 1CT : 1CT |
| TP4 | 1CT : 1CT |

##### INS. LOSS (MAX)

|               |         |
|---------------|---------|
| 1MHz TO 20MHz | -0.8 dB |
| 50MHz         | -1.0 dB |
| 200MHz        | -1.2 dB |
| 400MHz        | -2.0 dB |
| 500MHz        | -3.0 dB |

##### RET. LOSS (MIN)

|                  |                     |
|------------------|---------------------|
| 1MHz - 40MHz     | -16 dB              |
| 40MHz - 400 MHz  | -16+10LOG (F/40) dB |
| 400MHz - 500 MHz | -6+30LOG (F/400) dB |

##### CM TO DM REJ

|               |            |
|---------------|------------|
| 1MHz - 500MHz | -30 dB MIN |
|---------------|------------|

##### HIPOT (Isolation Voltage): 2250VDC

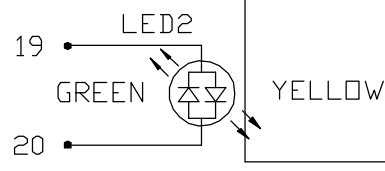
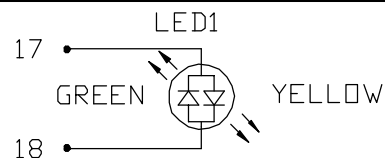
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

BALANCED DC LINE CURRENT 600mA MAX. CONTINUOUS.  
1.2A MAX. FOR 200 MILLISECONDS.

##### LED1 AND LED2

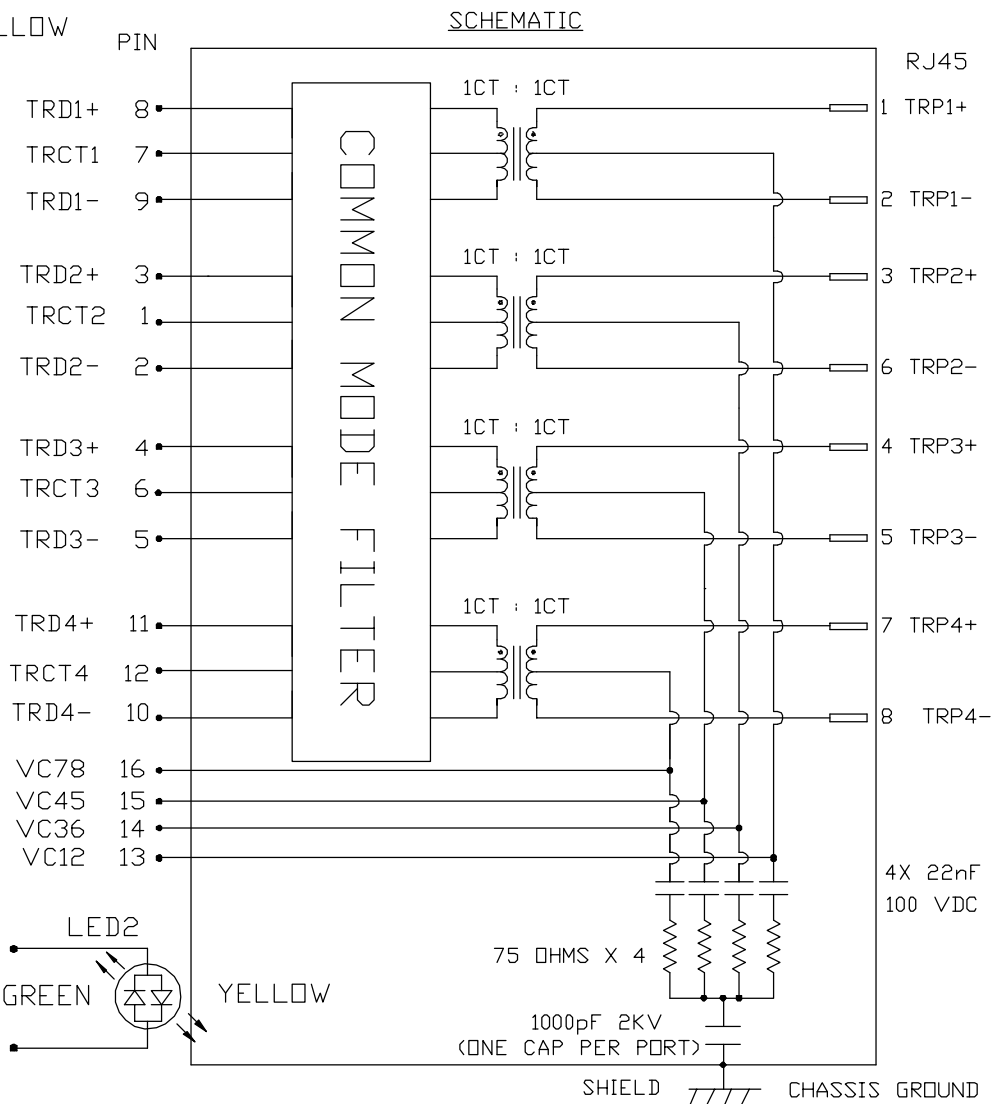
|                          |         |        |            |
|--------------------------|---------|--------|------------|
| VF (FORWARD VOLTAGE)     | IF=20mA | GREEN  | 2.2V TYP.  |
| ID (DOMINANT WAVELENGTH) | IF=20mA | YELLOW | 2.1V TYP.  |
|                          |         | GREEN  | 570nm TYP. |
|                          |         | YELLOW | 590nm TYP. |

OPERATING TEMPERATURE: -40°C TO +85°C.



PRELIMINARY

RoHS



ORIGINATED BY  
CHOW WANCHUNG  
DATE 2023-07-07

TITLE  
10 gigabit MagJack®  
4PPoE  
PATENTED

DRAWN BY  
BILL LIU  
DATE 2023-07-07

PART NO. / DRAWING NO.  
G27-122T-066B

FILE NAME  
G27-122T-066B\_3.DWG

STANDARD DIM.  
TOL. IN INCH

.X  
.XX  
.XXX

[ ] METRIC DIM.  
AS REF.

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

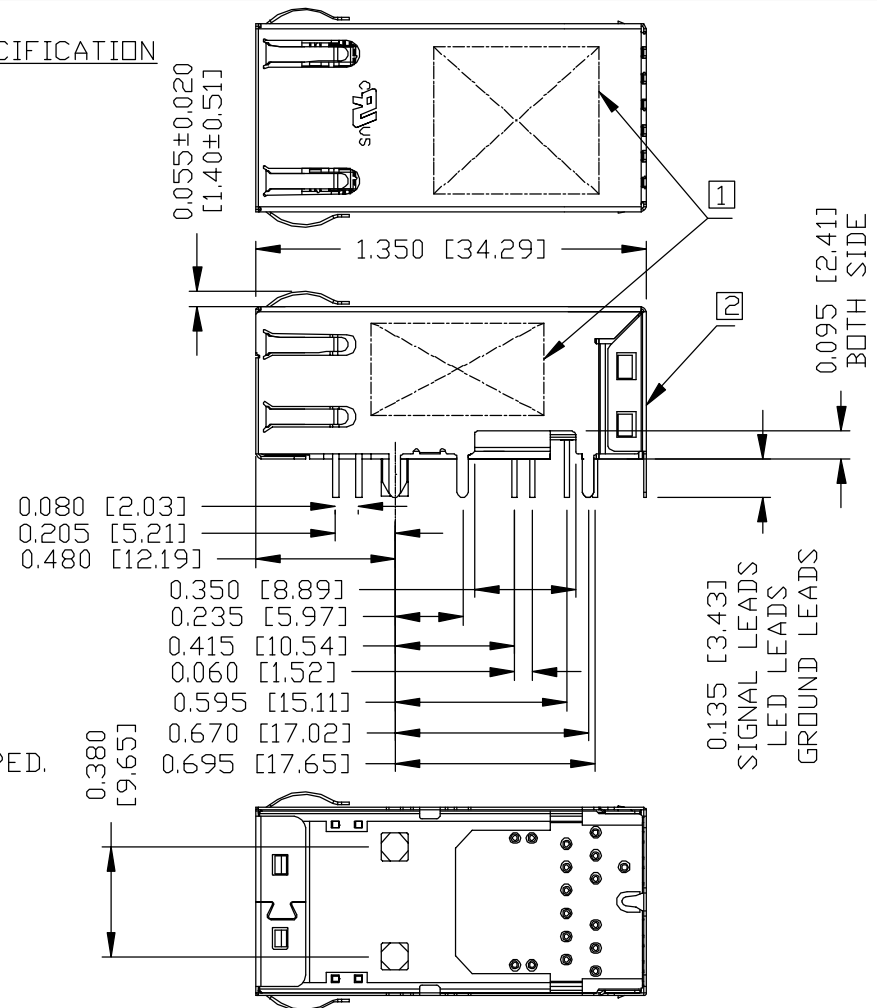
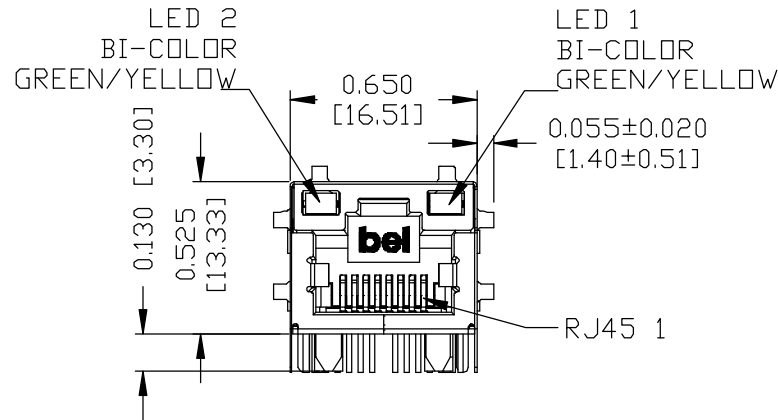
REV. : 3 PAGE : 2



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## MECHANICAL SPECIFICATION



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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: LEAD FREE COPPER WIRES, DIA 0.018 INCH.  
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.

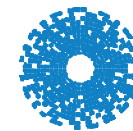
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.  
(ALL GROUND LEADS ARE SOLDER DIPPED)

**UL** USUL RECOGNIZED - FILE #E169987.

- MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER AND DATE CODE.
- MARKING "PATENTED" IN BACK VIEW.
- THE PRODUCT IS RoHS COMPLIANT.
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
- THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 7,924,130 AND U.S. PAT. 7,429,195 AND U.S. PAT. 6,840,817.
- THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.

- THE PART IS COMPLIANT WITH WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX..

|                                                |  |                                                               |                                             |  |                               |      |                            |                                                                                       |                                                                                                                                           |
|------------------------------------------------|--|---------------------------------------------------------------|---------------------------------------------|--|-------------------------------|------|----------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| ORIGINATED BY<br>ANTON LIAO<br>DATE 2023-07-07 |  | TITLE<br><br>10 gigabit MagJack®<br><br>4PPoE<br><br>PATENTED | PART NO. / DRAWING NO.<br><br>G27-122T-066B |  | STANDARD DIM.<br>TOL. IN INCH |      | [ ] METRIC DIM.<br>AS REF. |                                                                                       |  <b>bel</b> <b>MAGNETIC SOLUTIONS</b><br>a bel group |
| DRAWN BY<br>TOWER YU<br>DATE 2023-07-07        |  |                                                               | FILE NAME<br><br>G27-122T-066B_3.DWG        |  | .X                            |      | UNIT : INCH [mm]           |                                                                                       |                                                                                                                                           |
|                                                |  |                                                               |                                             |  | .XX                           |      | SCALE : N/A                |                                                                                       |                                                                                                                                           |
|                                                |  |                                                               |                                             |  |                               | .XXX | ±0.010                     |  | SIZE : A4                                                                                                                                 |

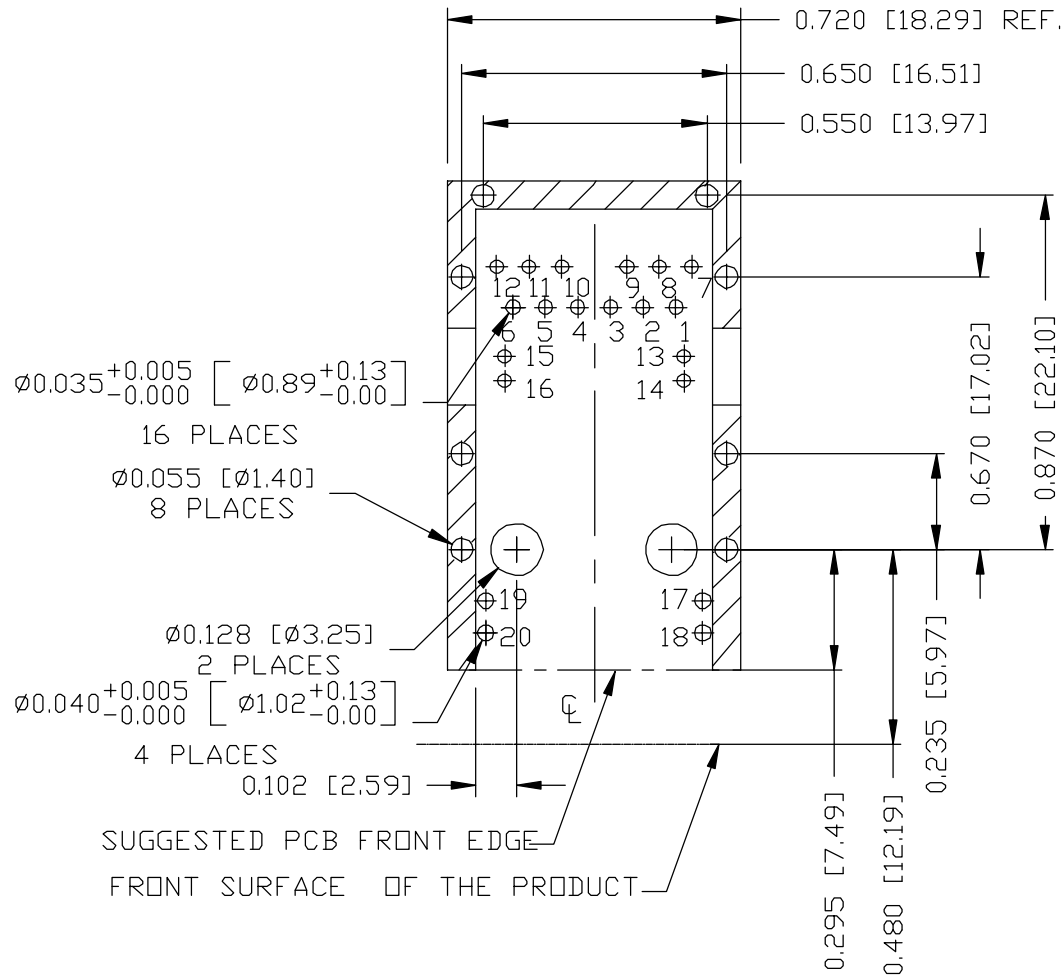


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## RECOMMENDED PCB FOOTPRINT

### COMPONENT SIDE VIEW



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RoHS



### NOTES:

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

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PART NO. / DRAWING NO.  
G27-122T-066B

FILE NAME  
G27-122T-066B\_3.DWG

STANDARD DIM.  
TOL. IN INCH

.X  
.XX  
.XXX ±0.004

[ ] METRIC DIM.  
AS REF.

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

REV. : 3 PAGE : 4



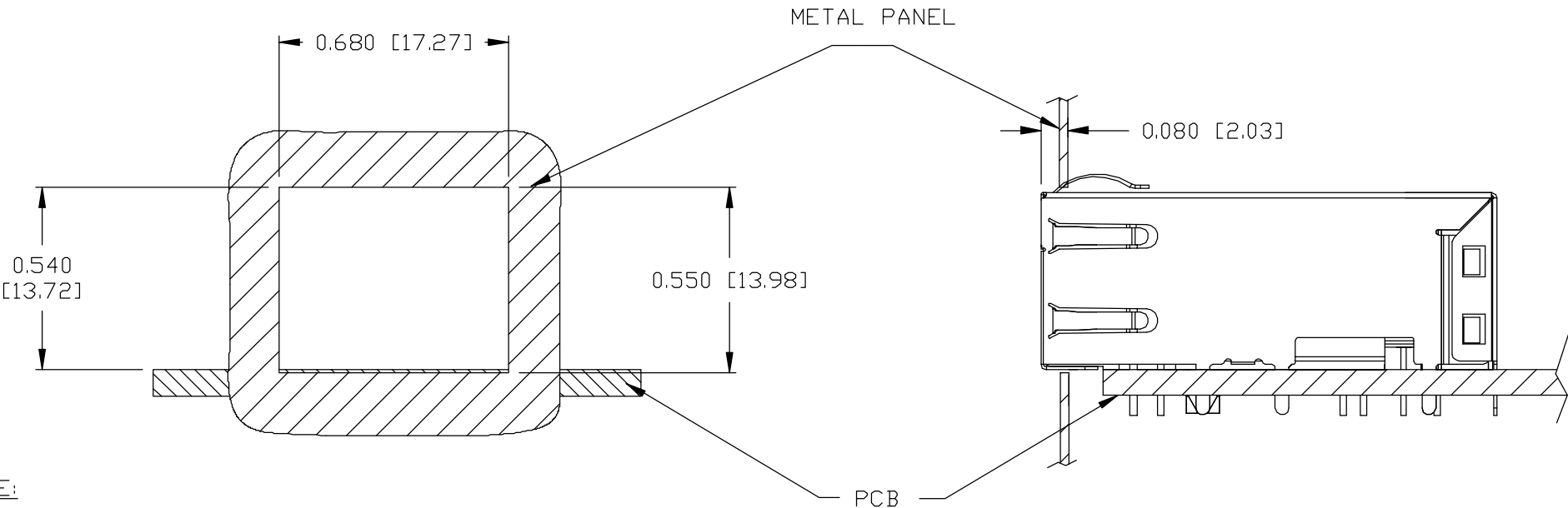
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SUGGESTED PANEL OPENING



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.

PACKING INFORMATION

PACKING TRAY: : 0200M9999-K8 (TOP)  
0200M9999-K7 (BOTTOM)

PACKING QUANTITY : 48 PCS FINISHED GOODS PER TRAY  
9 TRAYS (432 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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| 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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