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| LED 1 POLARITY | | | LED 2 POLARITY | | |
|----------------|--------|--------|----------------|--------|--------|
| PIN 17 | PIN 18 | COLOR | PIN 19 | PIN 20 | COLOR |
| - | + | YELLOW | + | - | ORANGE |
| | | | - | + | GREEN |



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

| | |
|-----|---------------|
| TP1 | 1CT : 1CT ±2% |
| TP2 | 1CT : 1CT ±2% |
| TP3 | 1CT : 1CT ±2% |
| TP4 | 1CT : 1CT ±2% |

OCL @ 100kHz/100mVRMS (4CHANNEL)

11mA DC BIAS 350µH MIN.

Compliant to IEEE 802.3at specification

INS. LOSS

| | |
|------------------|-------------|
| 0.1MHz TO 1MHz | -1.1 dB MAX |
| 1MHz TO 65MHz | -0.8 dB MAX |
| 65MHz TO 100MHz | -1.0 dB MAX |
| 100MHz TO 125MHz | -1.2 dB MAX |

RET. LOSS (MIN)

| | |
|--------------|-----------------------|
| 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): 2250 VDC

100% OF PRODUCTION TESTED TO COMPLY

WITH IEEE 802.3 ISOLATION REQUIREMENTS

BALANCED DC LINE CURRENT 720 mA MAX. @ 57 VDC CONTINUOUS

1.2 A MAX. @ 57 VDC FOR 200 MILLISECONDS

OPERATING TEMPERATURE: -40°C TO 85°C

LED 1

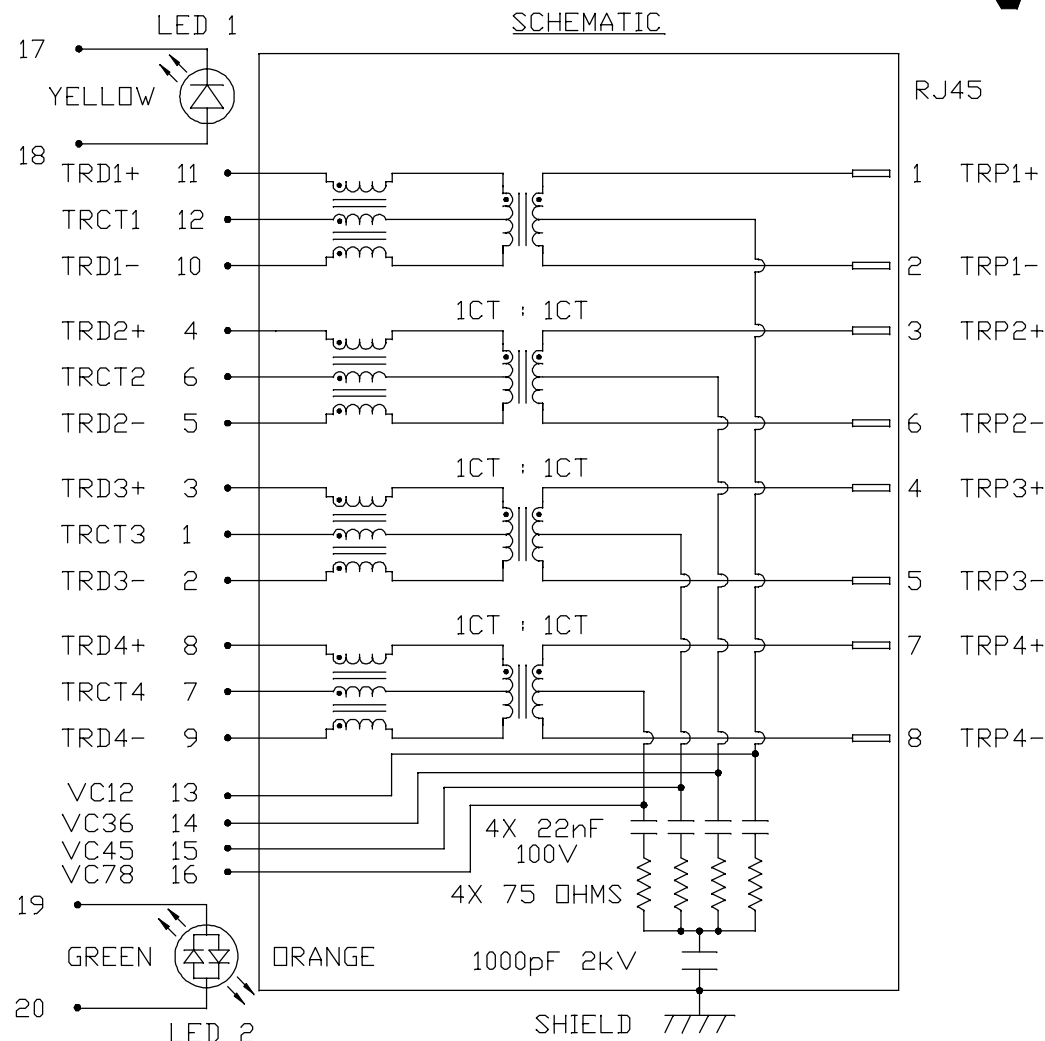
| | | |
|--------------------------|----------------|------------|
| VF (FORWARD VOLTAGE) | IF=20mA YELLOW | 2.1V TYP. |
| λD (DOMINANT WAVELENGTH) | IF=20mA YELLOW | 590nm TYP. |

LED 2

| | | |
|--------------------------|---------------|------------|
| VF (FORWARD VOLTAGE) | IF=20mA GREEN | 2.2V TYP. |
| | ORANGE | 2.0V TYP. |
| λD (DOMINANT WAVELENGTH) | IF=20mA GREEN | 570nm TYP. |
| | ORANGE | 605nm TYP. |

OPERATING TEMPERATURE: -40°C TO 85°C

SCHEMATIC



REV. : B

PAGE : 2

ORIGINATED BY
CHOW WANCHUNG
DATE 2017-04-03

TITLE
1X4 glgabit MagJack®
(PoEp, Extended Temperature)

PART NO. / DRAWING NO.
08261X4TGH-F

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

DRAWN BY
XIE YIMING
DATE 2017-04-03

0826-1X4T-GH-F
PATENTED

FILE NAME
08261X4TGH-F_B.DWG

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



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NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK
FLAMMABILITY RATING UL 94V-0

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

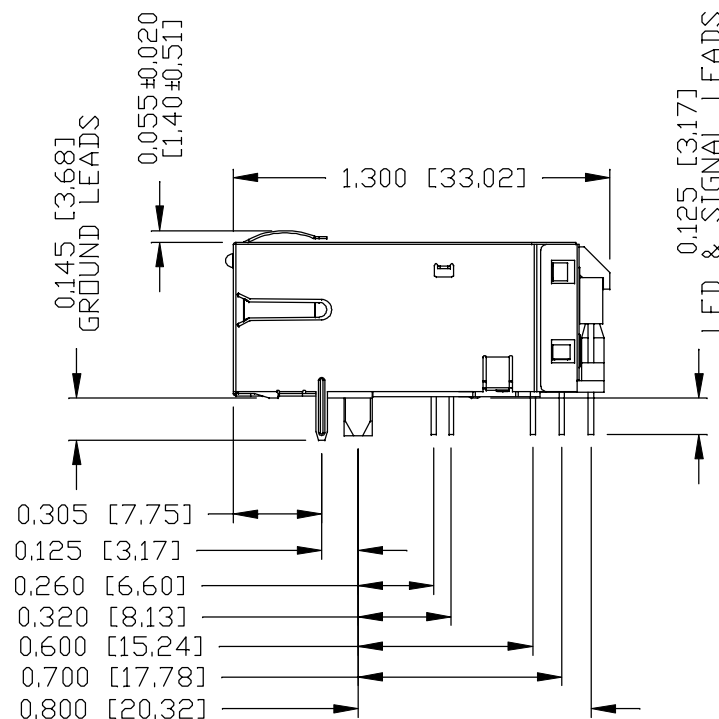
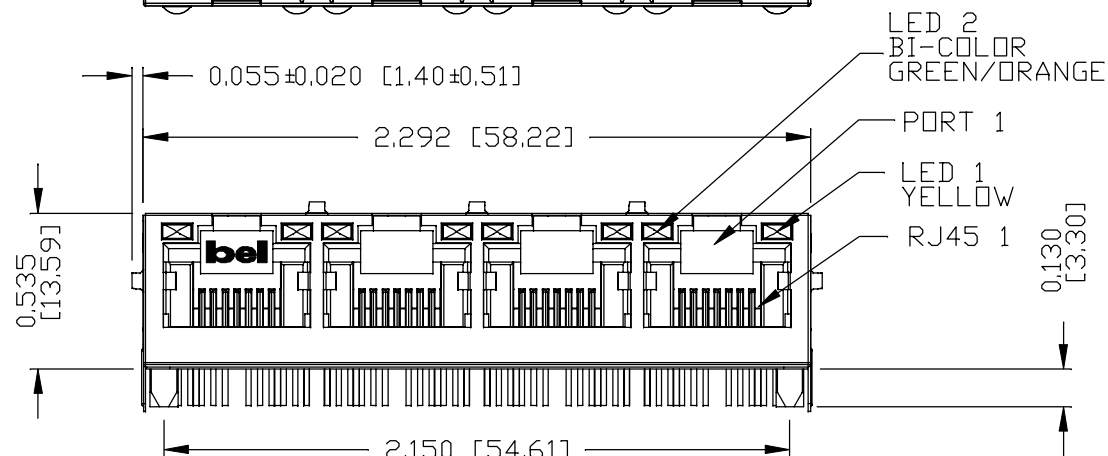
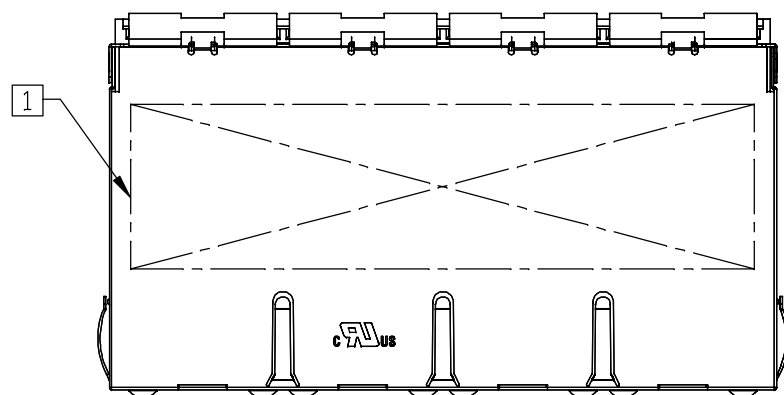
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.

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

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 7,123,117.

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



2. THE PRODUCT IS RoHS COMPLIANT.

cAULus UL RECOGNIZED - FILE #E196366 AND E169987.

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

ORIGINATED BY
ANTON LIAO
DATE 2017-04-03

DRAWN BY
JESSE LI
DATE 2017-04-03

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0826-1X4T-GH-F
PATENTED

PART NO. / DRAWING NO.
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FILE NAME
08261X4TGH-F_B.DWG

STANDARD DIM.
TOL. IN INCH

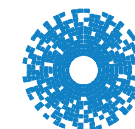
.X
.XX
.XXX ±0.010

[] METRIC DIM.
AS REF.

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

REV. : B

PAGE : 3



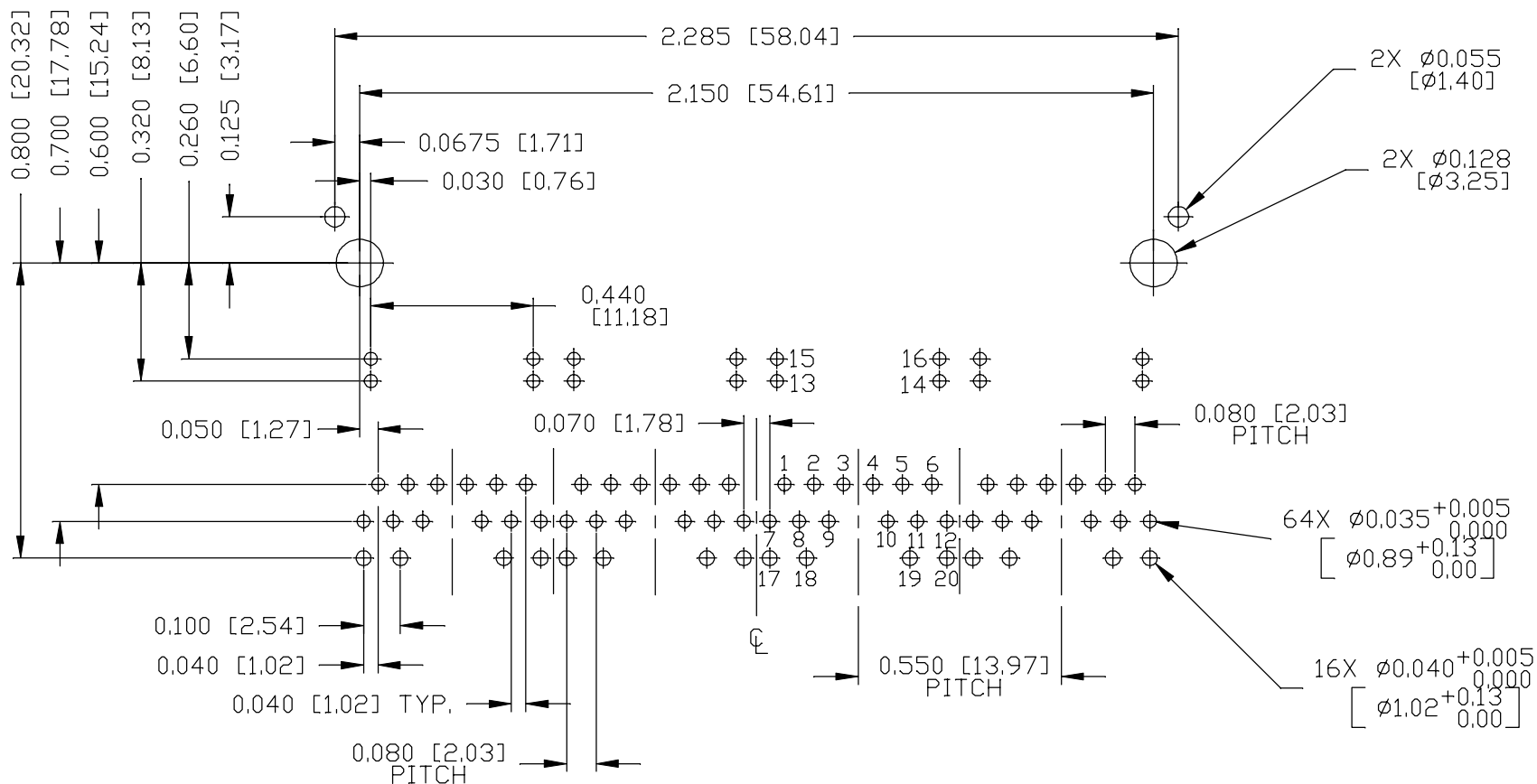
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a bel group

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RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



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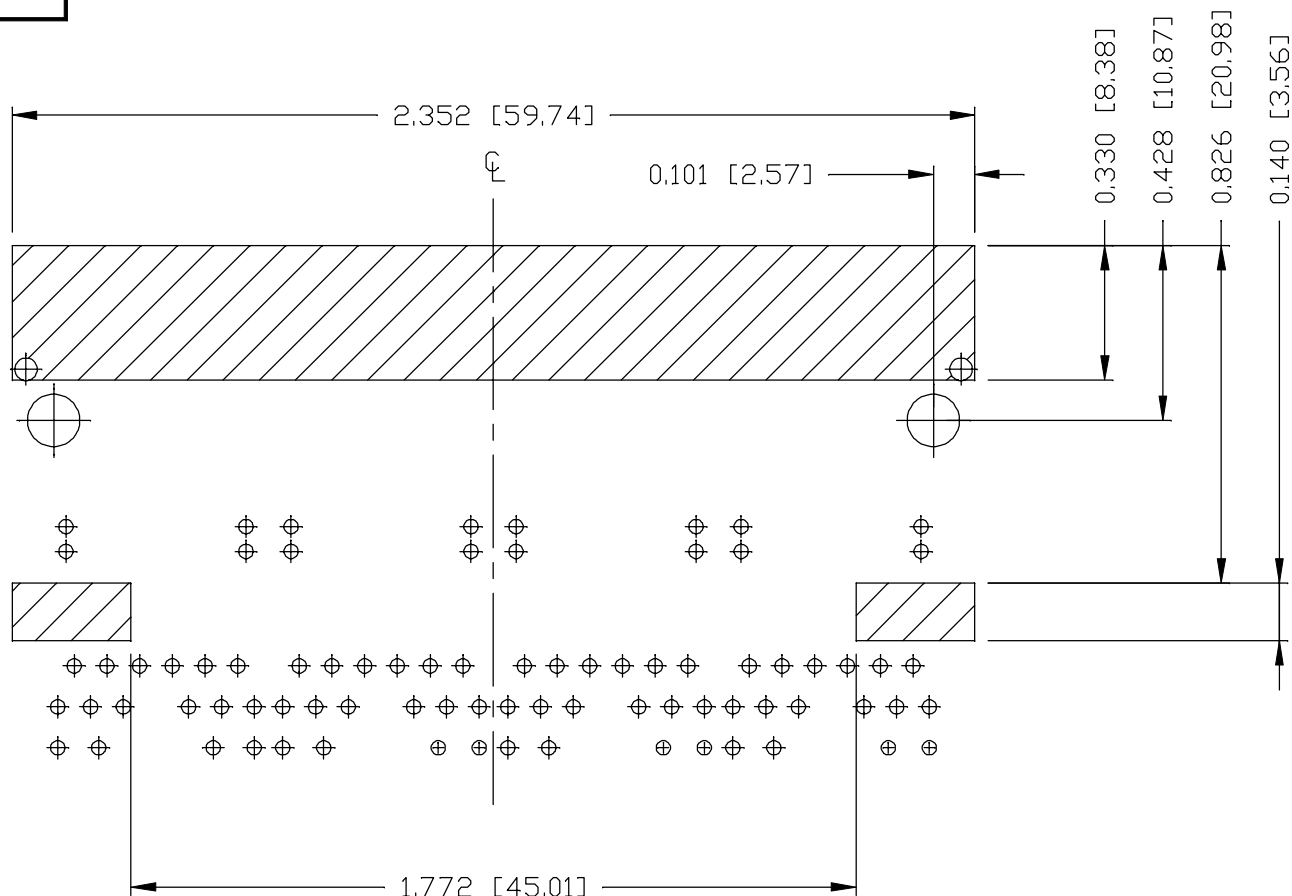
| STANDARD DIM. TOL. IN INCH | | [] METRIC DIM. AS REF. |
|-------------------------------|--------|----------------------------|
| .X | | UNIT : INCH [mm] |
| .XX | | SCALE : N/A |
| .XXX | ±0.004 | SIZE : A4 |

REV. : B PAGE : 4



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NOTES:

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

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FILE NAME
08261X4TGH-F_B.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

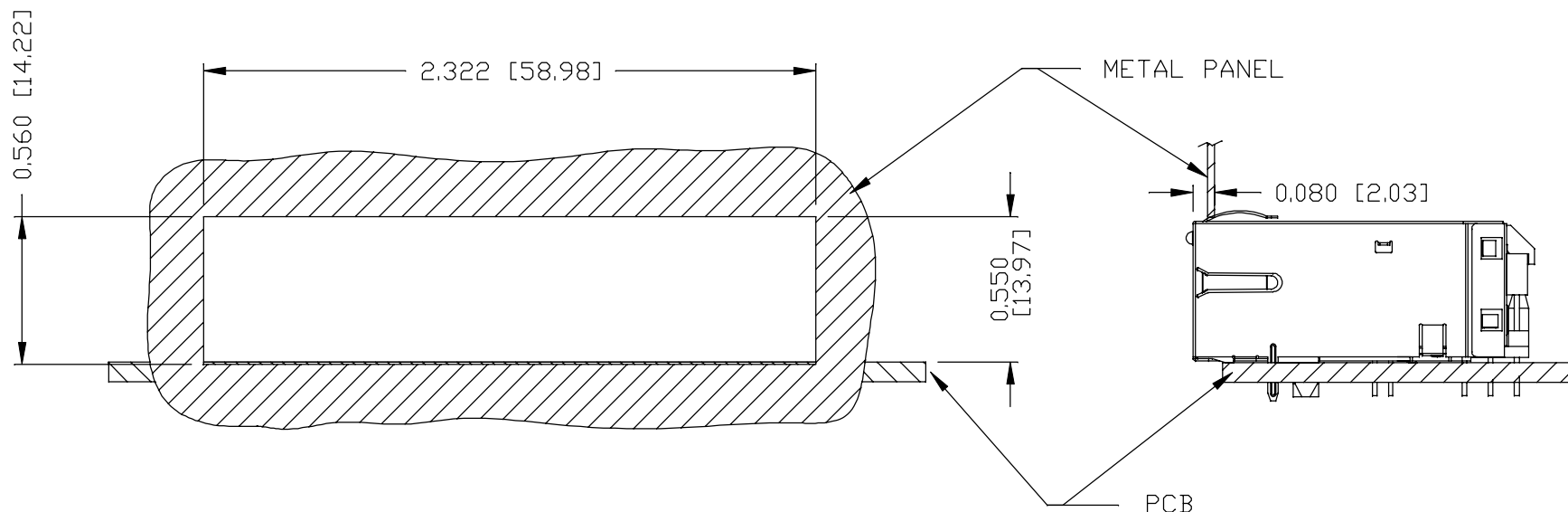
UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : B PAGE : 5





SUGGESTED PANEL OPENING



NOTES:

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-B4 (TOP)


0200-9999-B5 (BOTTOM)

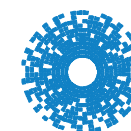
PACKING QUANTITY : 24 PCS FINISHED GOODS PER TRAY

10 TRAYS (240 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. : B PAGE : 6

| | | | | | |
|--|--|---|--|---|---|
| ORIGINATED BY ANTON LIAO DATE 2017-04-03 | TITLE 1X4 gigabit MagJack® (PoEp, Extended Temperature) 0826-1X4T-GH-F PATENTED | PART NO. / DRAWING NO. 08261X4TGH-F FILE NAME 08261X4TGH-F_B.DWG | STANDARD DIM. TOL. IN INCH <div>.X</div> <div>.XX</div> <div>.XXX ±0.004</div> | [] METRIC DIM. AS REF. <div>UNIT : INCH [mm]</div> <div>SCALE : N/A</div> <div>SIZE : A4</div> |  |
| DRAWN BY JESSE LI DATE 2017-04-03 | | | | | |
| | | | | | |



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