

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



TURNS RATIO

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

□CL @ 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+20L□G(f/80MHz) dB

CM TQ 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 MILLISEC

OPERATING TEMPERATURE:

-40°C TO 85°C

LED 1

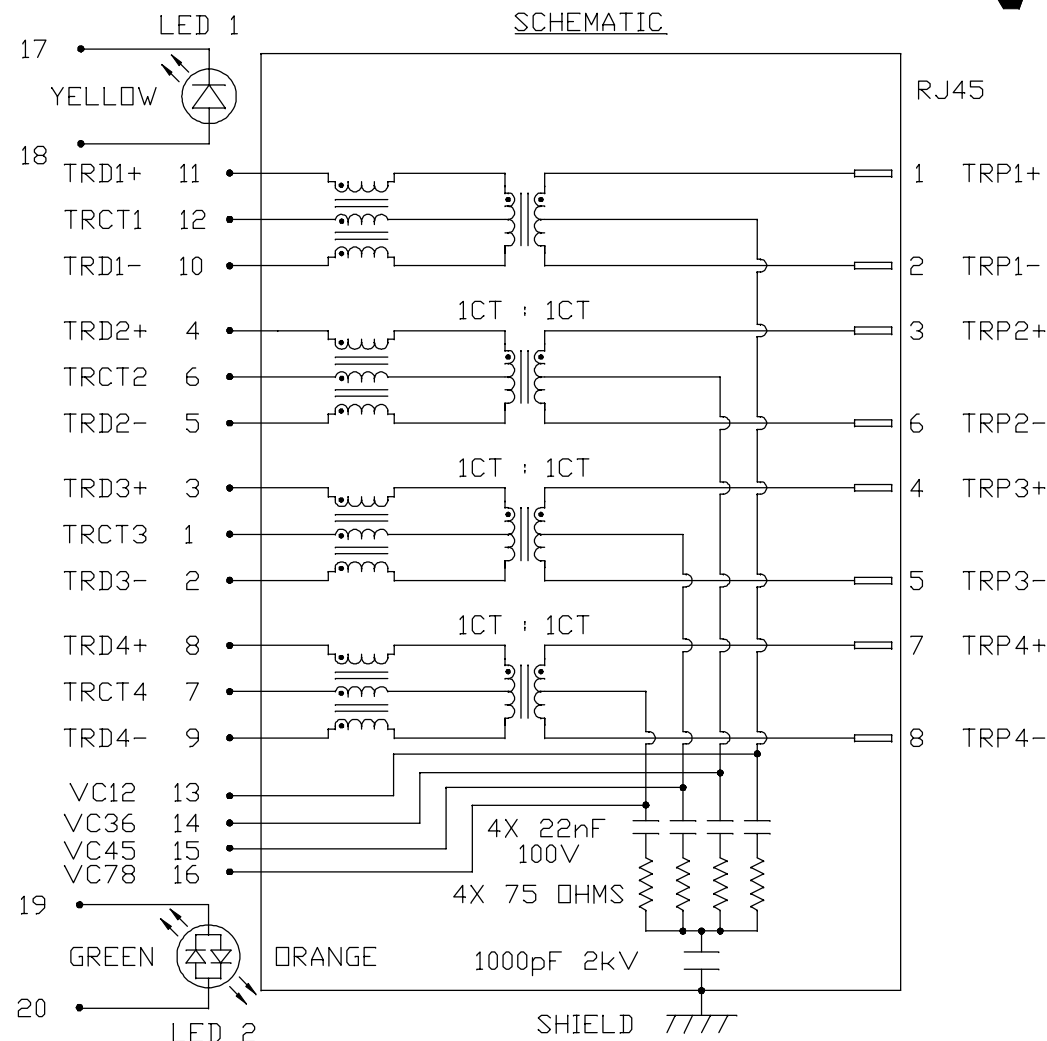
VF (FORWARD VOLTAGE)	IF=20mA YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW	590nm TYP.

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
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ORIGINATED BY CHOW WANCHUNG DATE 2017-04-03	TITLE 1X4 gigabit MagJack® (PoEp, Extended Temperature)	PART NO. / DRAWING NO. 08261X4TGH-F	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.	 bel MAGNETIC SOLUTIONS a bel group
DRAWN BY XIE YIMING DATE 2017-04-03		FILE NAME 08261X4TGH-F_B.DWG	.X	UNIT : INCH [mm]	
			.XX	SCALE : N/A	
			.XXX	 SIZE : A4	

THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

NOTES:

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

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

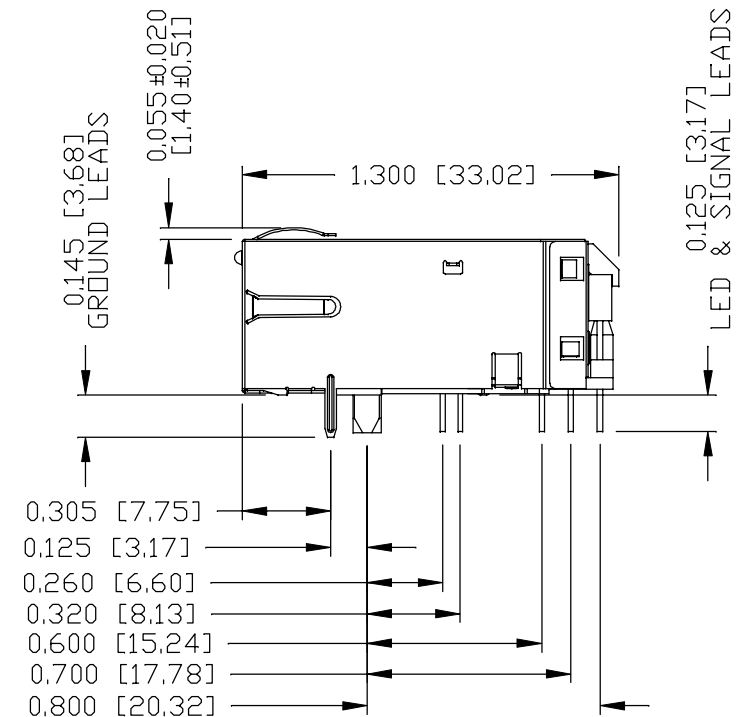
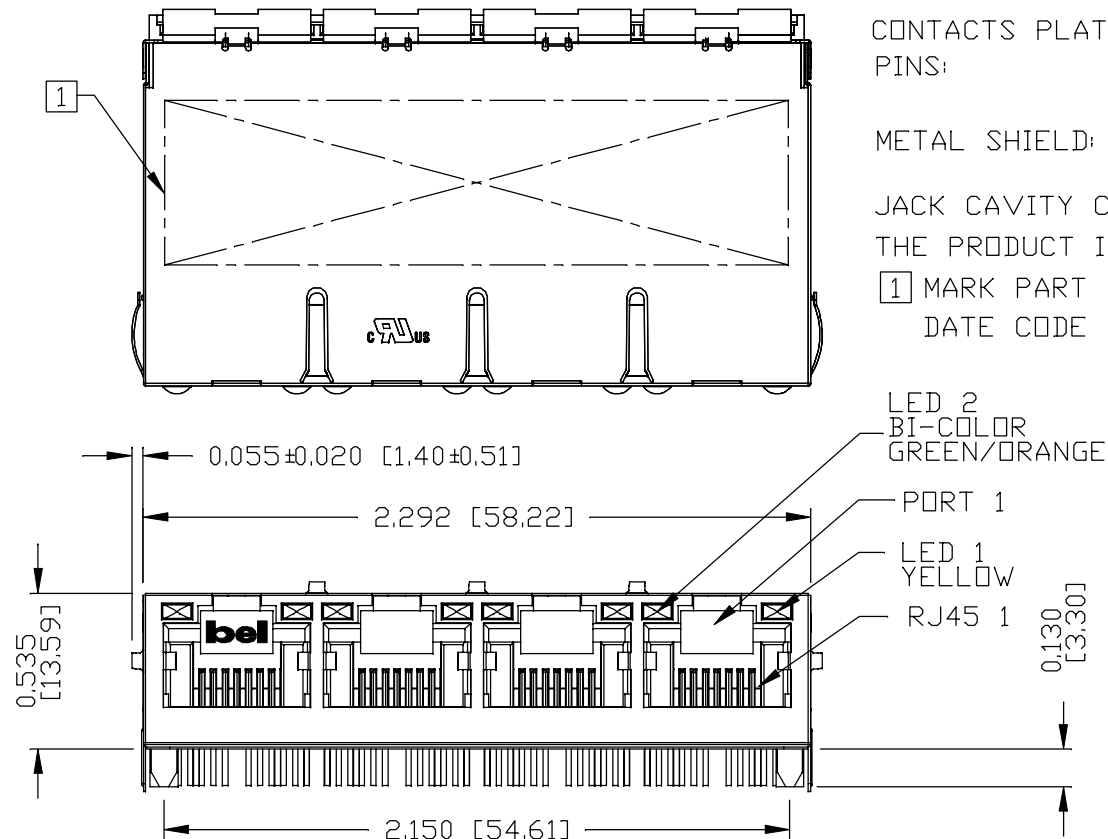
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.

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.

RoHS

2. THE PRODUCT IS RoHS COMPLIANT.

cULus 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

TITLE
1X4 giga-bit 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

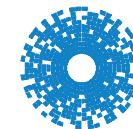
.X
.XX
.XXX ±0.010

[] METRIC DIM.
AS REF.

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

REV. : B

PAGE : 3

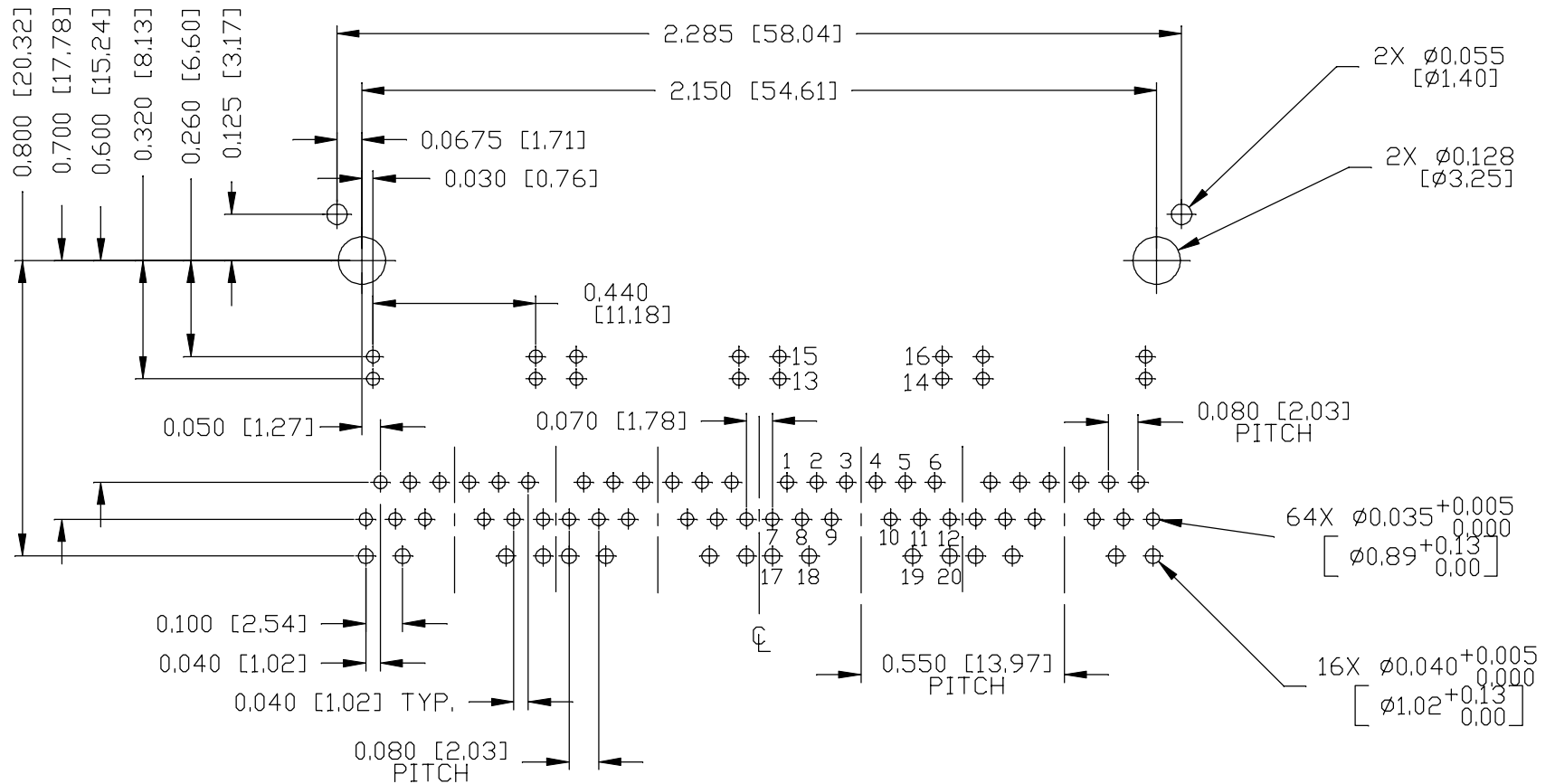


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RoHS

RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW



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STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

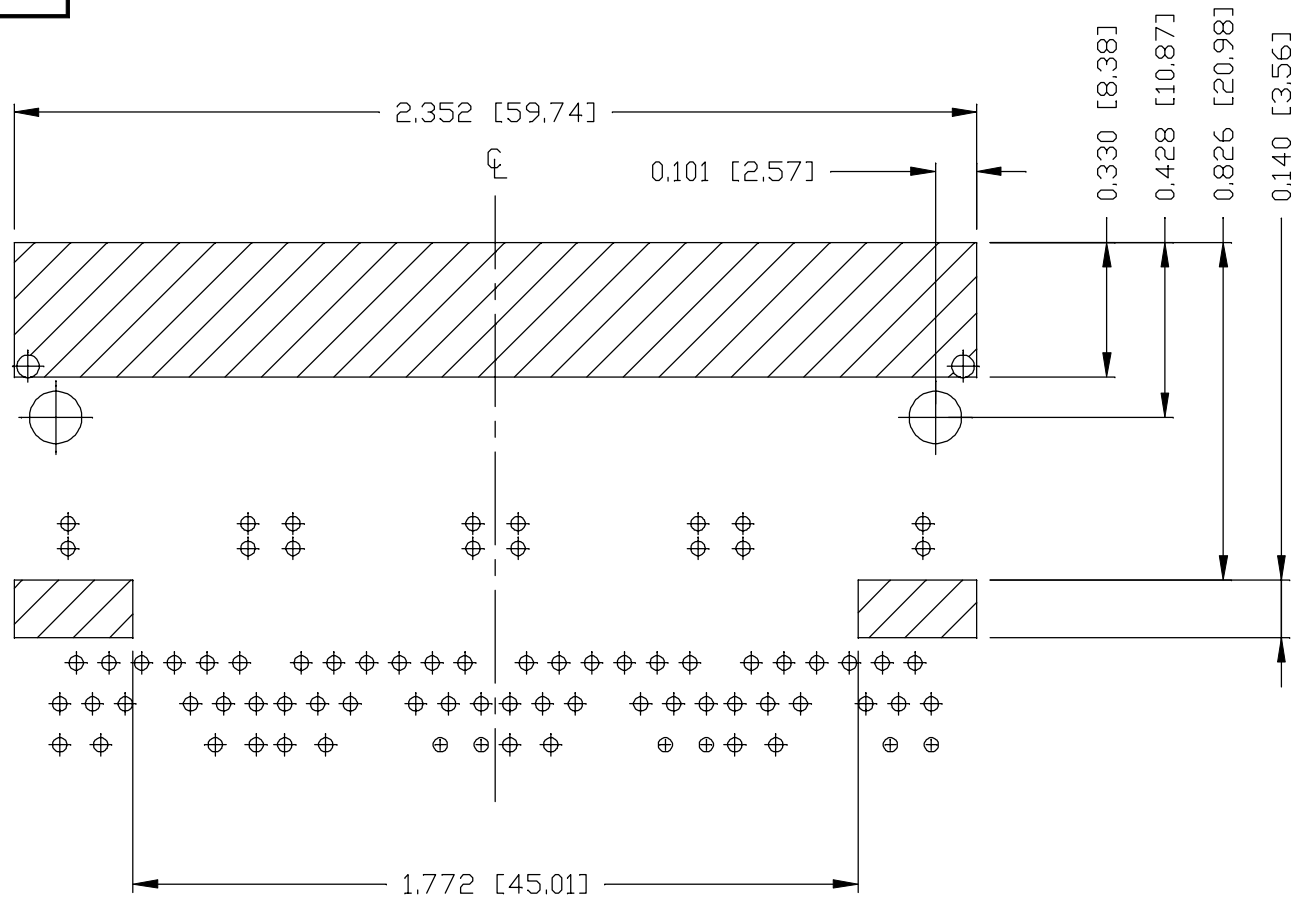
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PAGE : 4



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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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PATENTED

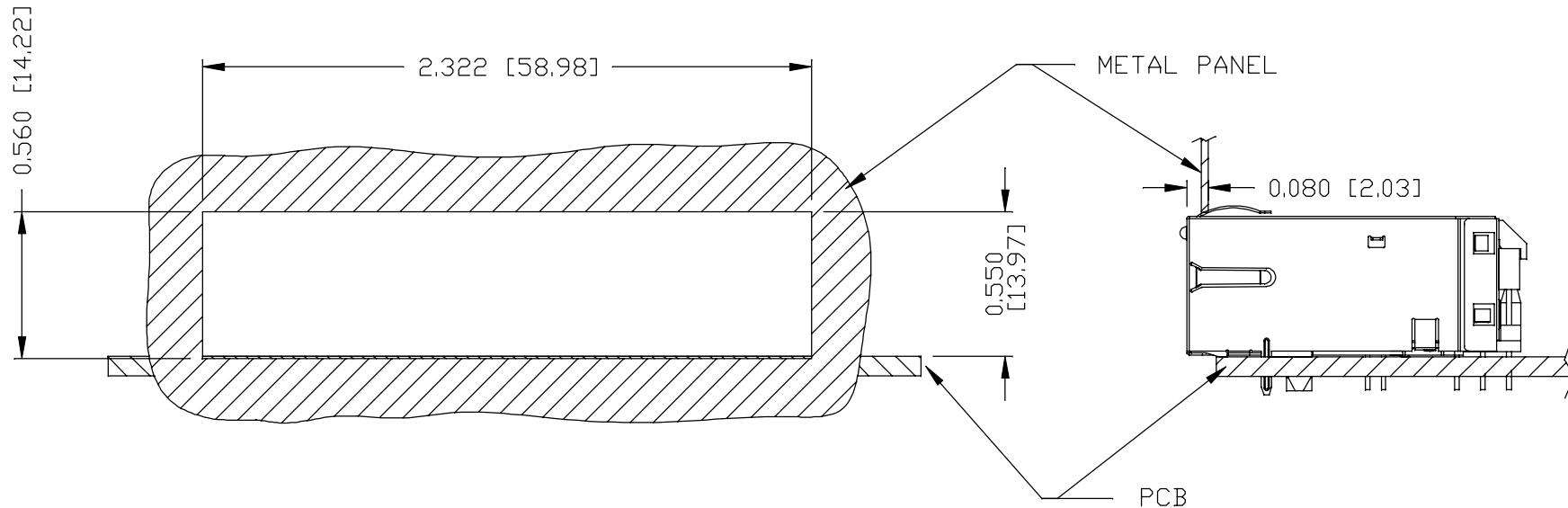
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STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.
.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.004	SIZE : A4



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RoHSSUGGESTED PANEL OPENINGNOTES:

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)

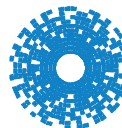
PACKING QUANTITY : 24 PCS FINISHED GOODS PER TRAY

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)

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			TOL. IN INCH		AS REF.	
			.X		UNIT : INCH [mm]	
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DRAWN BY JESSE LI DATE 2017-04-03		FILE NAME 08261X4TGH-F_B.DWG	.XXX	±0.004		SIZE : A4



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