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LED POLARITY		
PIN 11	PIN 12	COLOR
-	+	GREEN
+	-	ORANGE

## 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

8mA DC BIAS	350μH MIN.
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### 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)

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

### CM TO CM REJ

100kHz - 100MHz	-30 dB MIN
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### CM TO DM REJ

100kHz - 100MHz	-35 dB MIN
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### HIPOT (Isolation Voltage):

1500 Vrms or 2250VDC

100% OF PRODUCT TESTED IN PRODUCTION

TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS

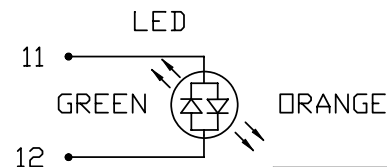
### LED

#### VF (FORWARD VOLTAGE)

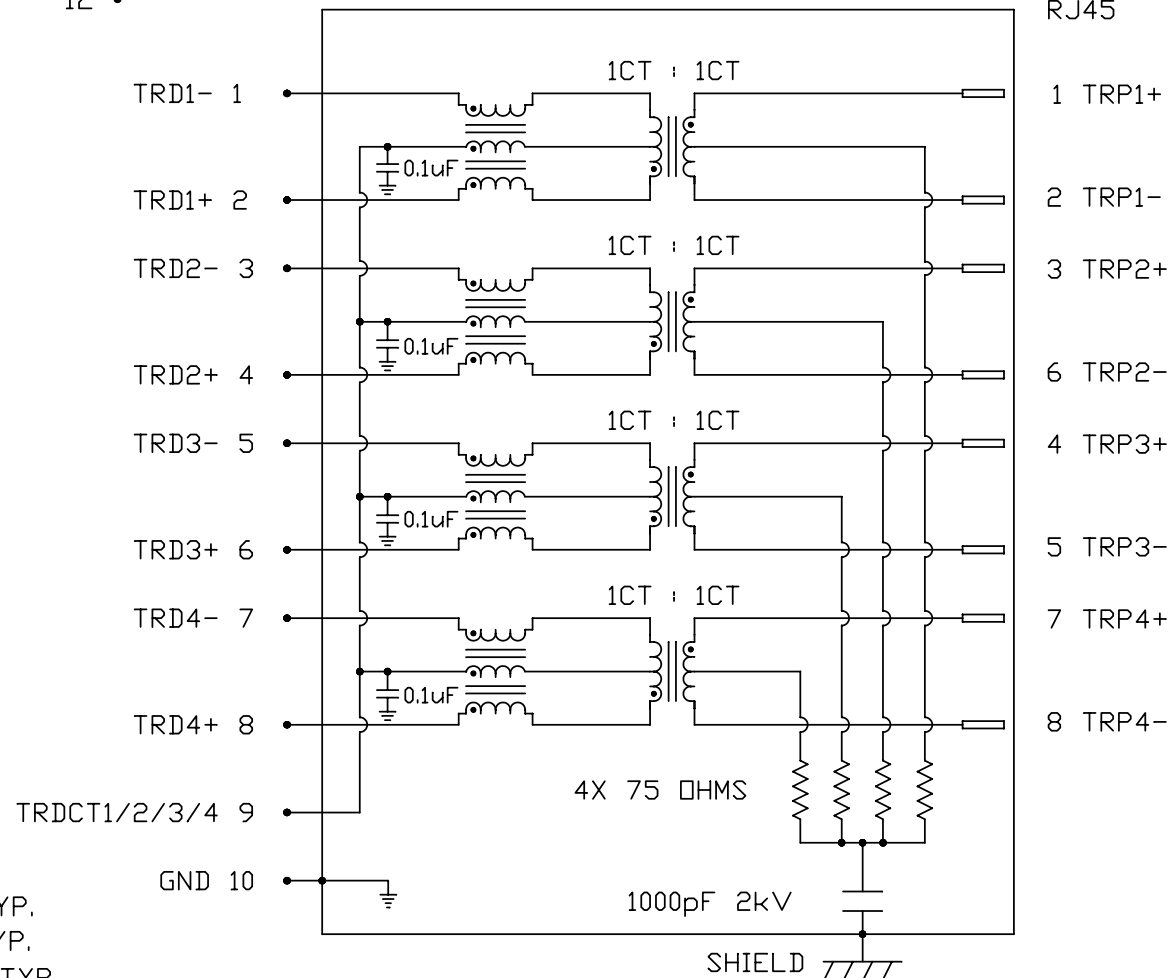
IF=20mA	GREEN	2.2V TYP.
	ORANGE	2.0V TYP.

#### λD (DOMINANT WAVELENGTH)

IF=20mA	GREEN	565nm TYP.
	ORANGE	610nm TYP.



## SCHEMATIC



RoHS



RJ45

ORIGINATED BY	DATE
CHOW WANCHUNG	2012-08-20
DRAWN BY	DATE
TAN QIGUANG	2012-08-20

TITLE
2X4 gigabit MagJack® (8 Cores, with LED) 0863-2X4R-54-F PATENTED

PART NO. / DRAWING NO.
08632X4R54-F
FILE NAME
08632X4R54-F_B.DWG

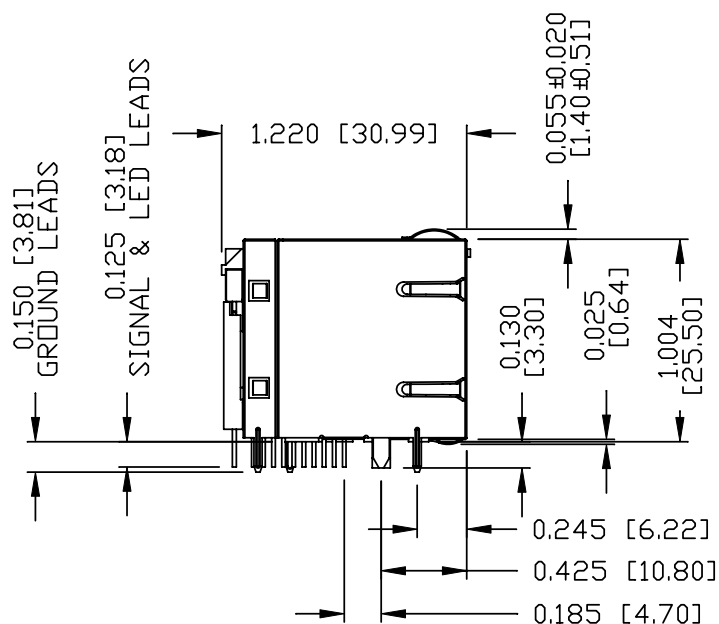
STANDARD DIM.
TOL. IN INCH
.X
.XX
.XXX

[ ] METRIC DIM. AS REFERENCE
UNIT : INCH [mm]
SCALE : N/A
REV. : B
SIZE : A4
PAGE : 2



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# NOTES:

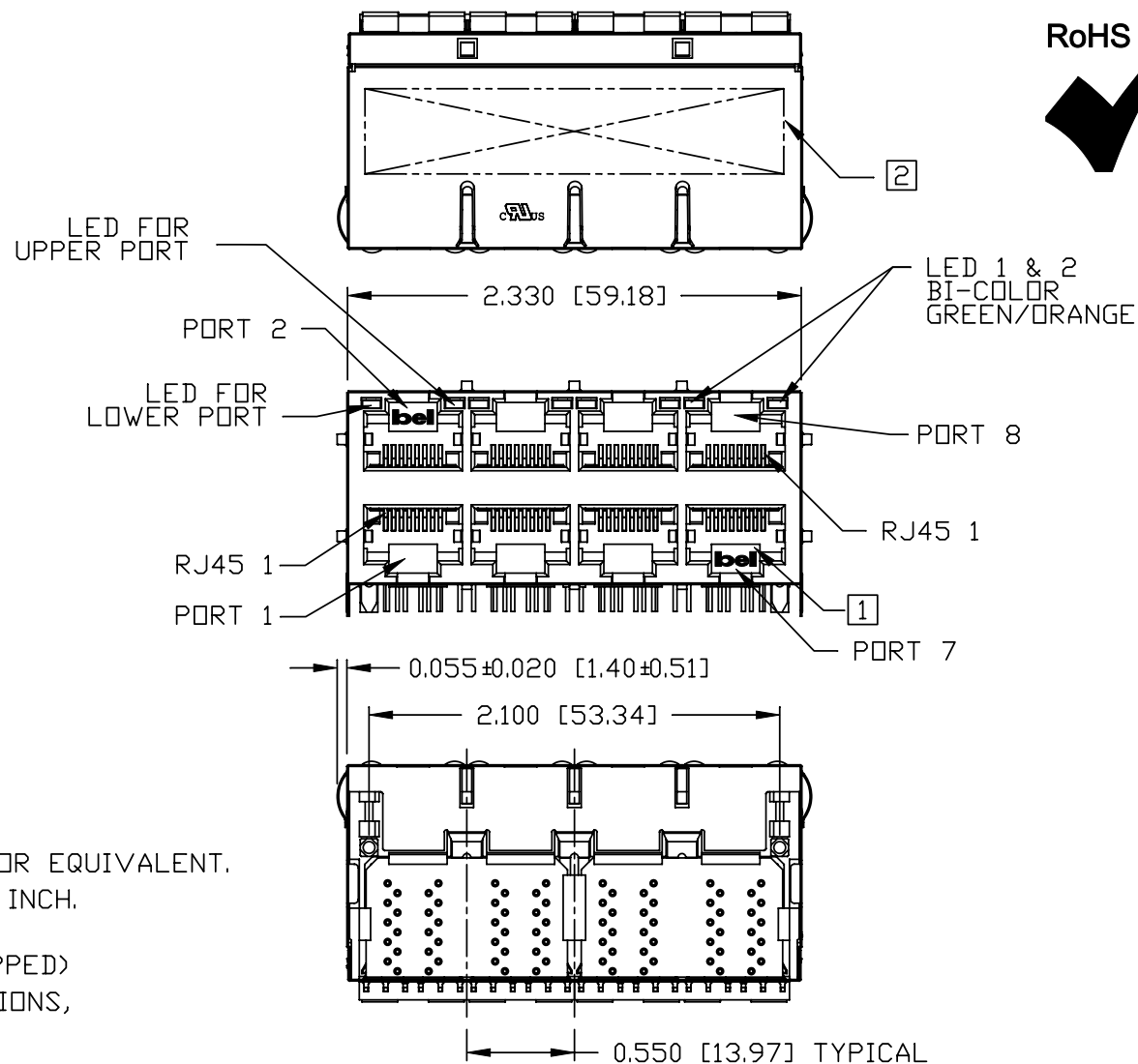
PLASTIC HOUSING: THERMOPLASTIC AT FLAMMABILITY RATING UL 94V-0  
 CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.  
 OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.  
 METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.  
 (ALL GROUND LEADS ARE SOLDER DIPPED)

[1] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

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

c UL RECOGNIZED - FILE #E196366 AND E169987.

3. THE PRODUCT IS RoHS COMPLIANT.



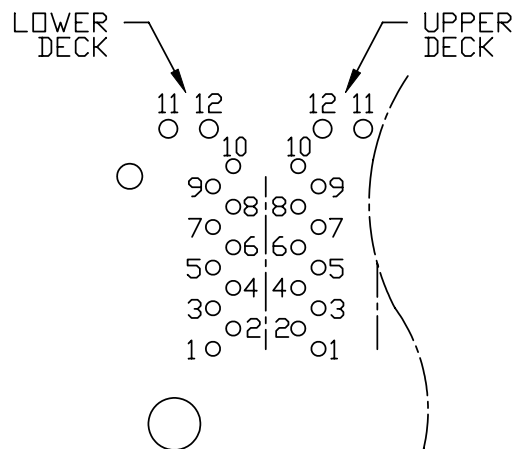
4. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE	
						UNIT : INCH [mm]	REV. : B
ANTON LIAO	2012-08-20	2X4 gigabit MagJack® (8 Cores, with LED) 0863-2X4R-54-F PATENTED	08632X4R54-F	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE			.XX			PAGE : 3
HE ZHEN	2012-08-20			.XXX	±0.010		

**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET

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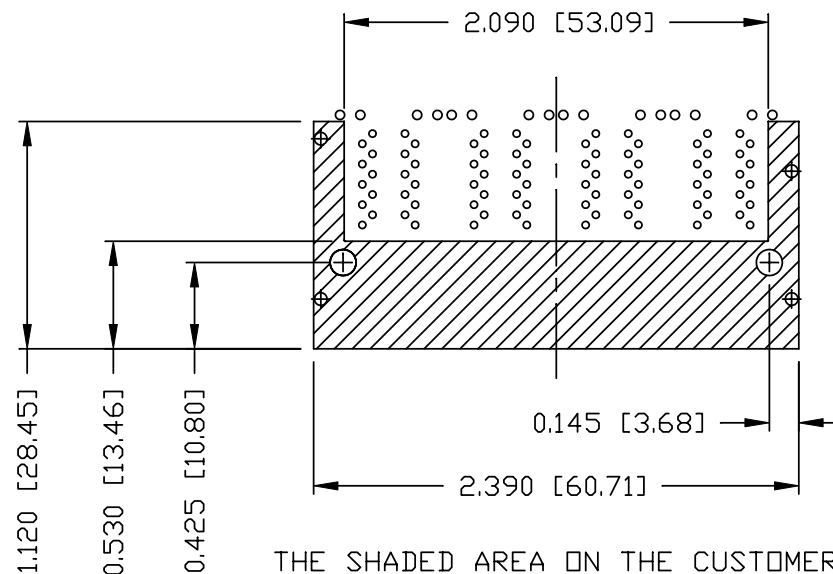
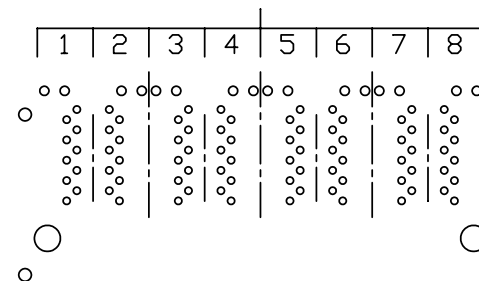
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PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)

12	GRN (+)/ORG (-)
11	GRN (-)/ORG (+)
10	GND
9	TRDCT1/2/3/4
8	TRD 4+
7	TRD 4-
6	TRD 3+
5	TRD 3-
4	TRD 2+
3	TRD 2-
2	TRD 1+
1	TRD 1-

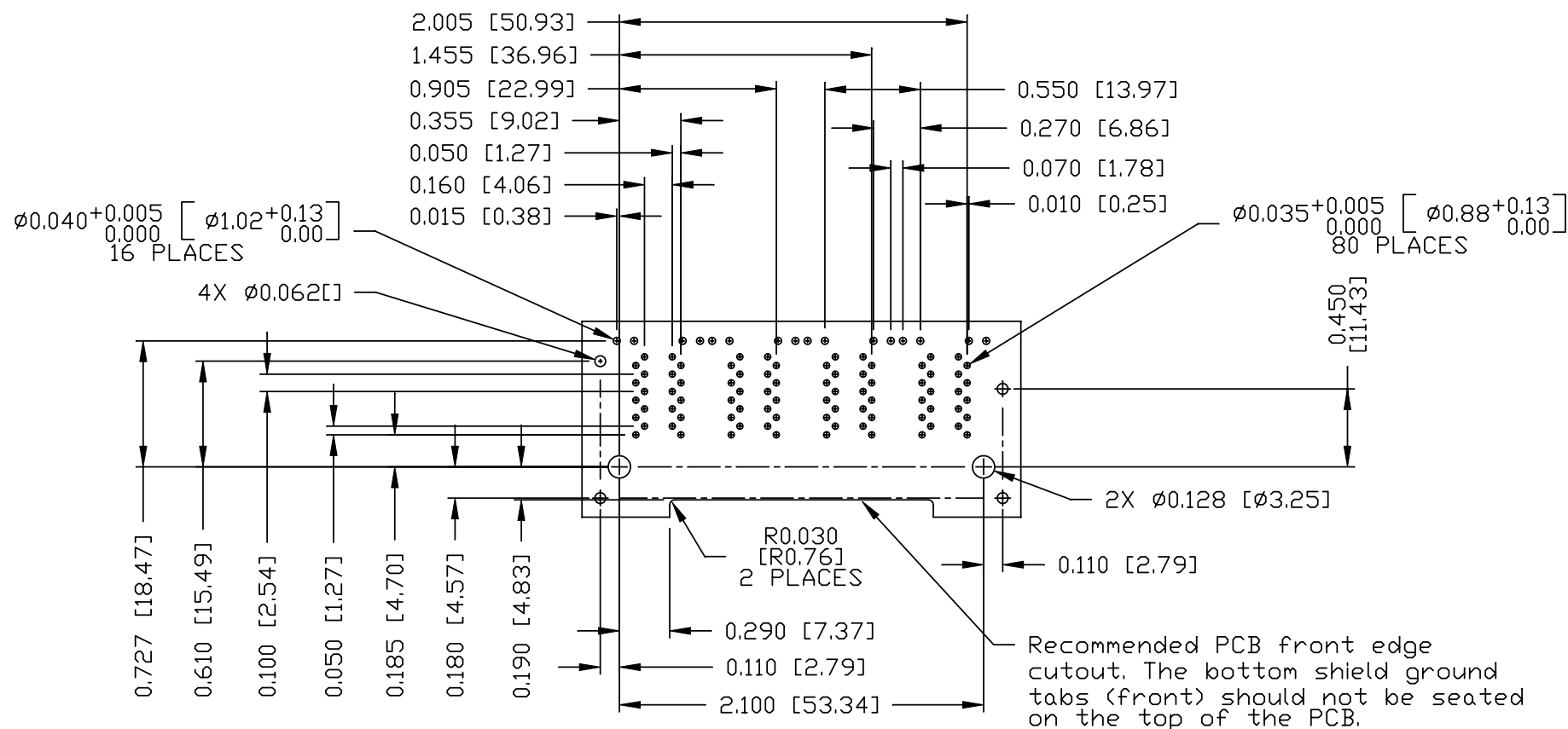
PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)






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

ORIGINATED BY ANTON LIAO	DATE 2012-08-20	TITLE 2X4 gigabit MagJack® (8 Cores, with LED) 0863-2X4R-54-F PATENTED	PART NO. / DRAWING NO. 08632X4R54-F	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.004	[ ] METRIC DIM. AS REFERENCE	
					UNIT : INCH [mm]	REV. : B
DRAWN BY HE ZHEN	DATE 2012-08-20		FILE NAME 08632X4R54-F_B.DWG		SCALE : N/A	SIZE : A4
						PAGE : 4





SUGGESTED FOOTPRINT  
(COMPONENT SIDE VIEW)

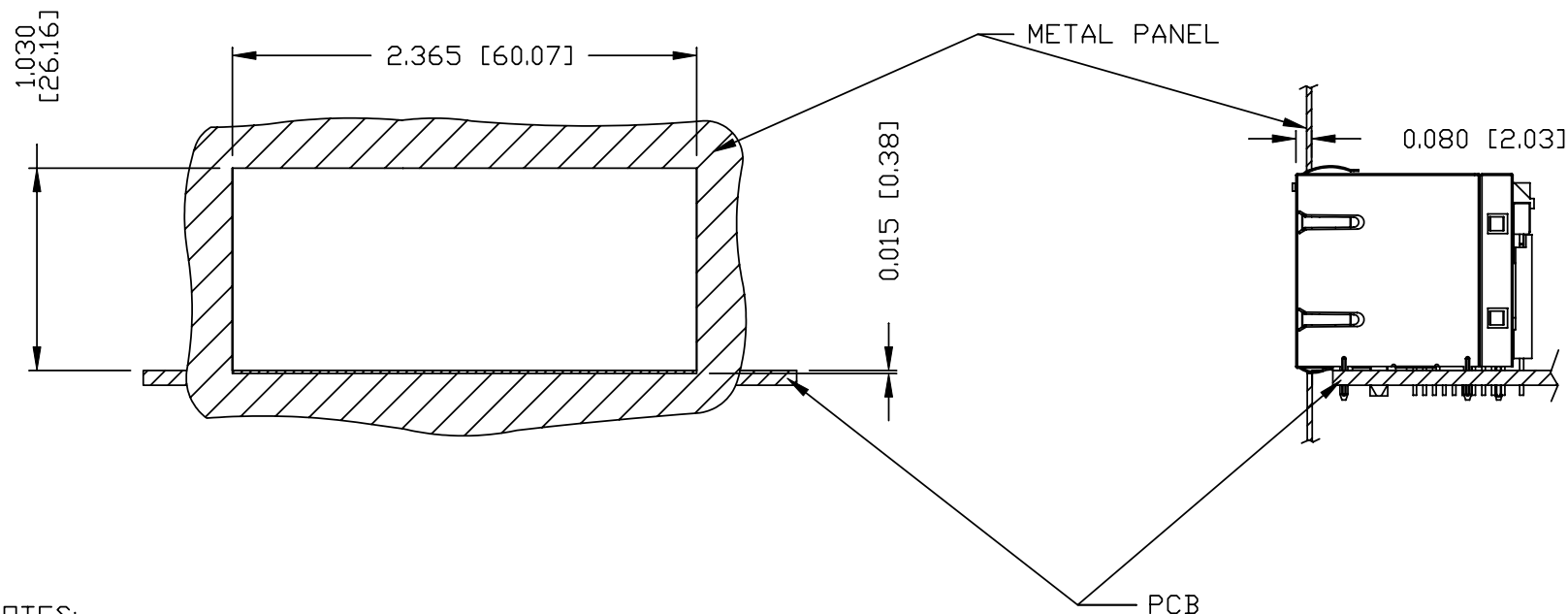
ORIGINATED BY ANTON LIAO	DATE 2012-08-20	TITLE 2X4 glgabit MagJack® (8 Cores, with LED) 0863-2X4R-54-F PATENTED	PART NO. / DRAWING NO. 08632X4R54-F	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET 
DRAWN BY HE ZHEN	DATE 2012-08-20		FILE NAME 08632X4R54-F_B.DWG	.X		UNIT : INCH [mm]	REV. : B	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.004		PAGE : 5	

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# 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

OR PACKING TRAY : 0200-9999-E7 (TOP)  
0200-9999-E8 (BOTTOM)

PACKING QUANTITY : 20 PCS FINISHED GOODS PER TRAY  
7 TRAYS (140 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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				.X		UNIT : INCH [mm]	REV. : B	
DRAWN BY HE ZHEN	DATE 2012-08-20		FILE NAME 08632X4R54-F_B.DWG	.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.004		PAGE : 6	