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**ELECTRICAL CHARACTERISTICS @ 25°C**

**TURNS RATIO**

TP1 1CT : 1CT 42%  
 TP2 1CT : 1CT 42%  
 TP3 1CT : 1CT 42%  
 TP4 1CT : 1CT 42%

DCL @ 100kHz/100mVRMS (4CHANNEL)

(-40°C - 85°C) 180µH MIN,  
 19mA DC BIAS(-40°C - 85°C) 120µH MIN,

**RET. LOSS (MIN)**

1MHz-40MHZ -18 dB MIN  
 40MHZ-250MHZ -18+10LOG10(f/40MHZ) dB MIN

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

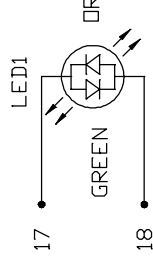
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

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

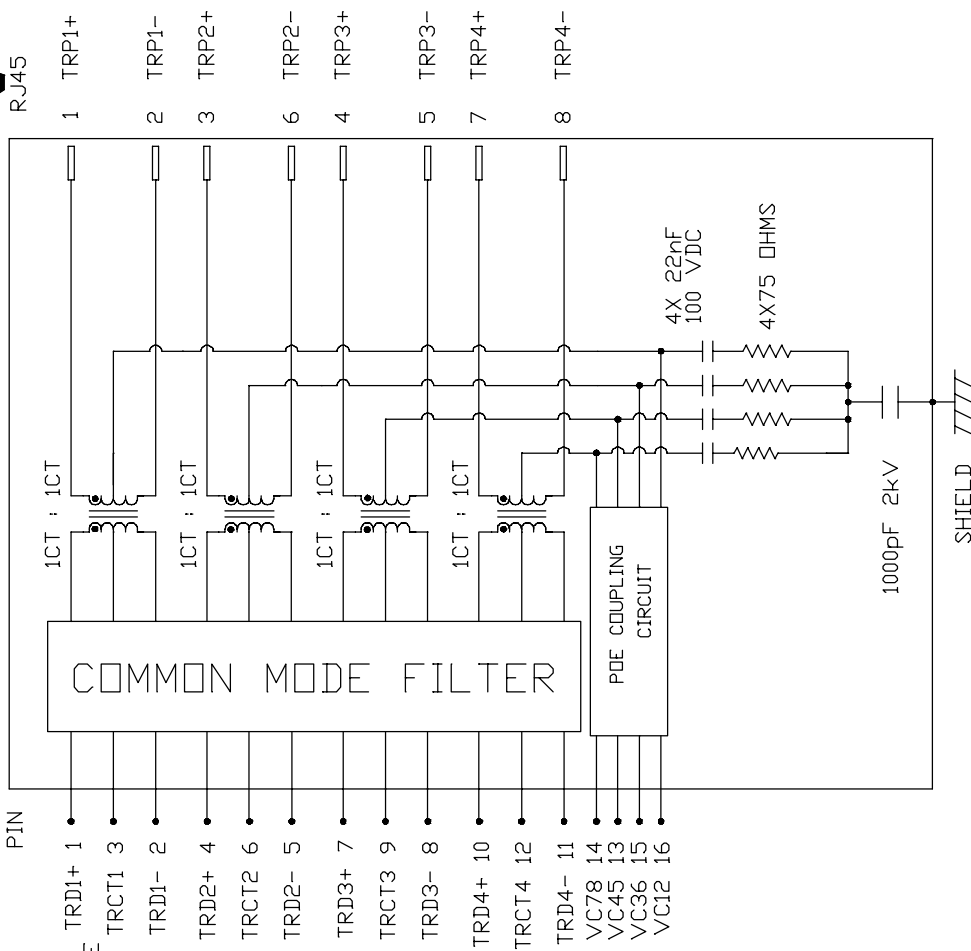
**LED 1**

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.

LED1 POLARITY	
PIN 17	PIN 18
+	-
-	+



**SCHEMATIC**

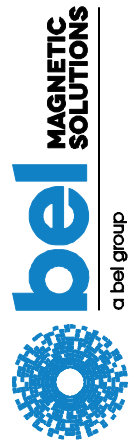


<b>ORIGINATED BY</b>	1X4 5 gIgabIt MaGJack®
<b>DATE</b>	4PpOe
<b>DRAWN BY</b>	PATENTED
<b>DATE</b>	G04-4N1A-129A

<b>TITLE</b>	G04-4N1A129A
<b>PART NO. / DRAWING NO.</b>	G04-4N1A129A
<b>FILE NAME</b>	G04-4N1A129A_B.DWG

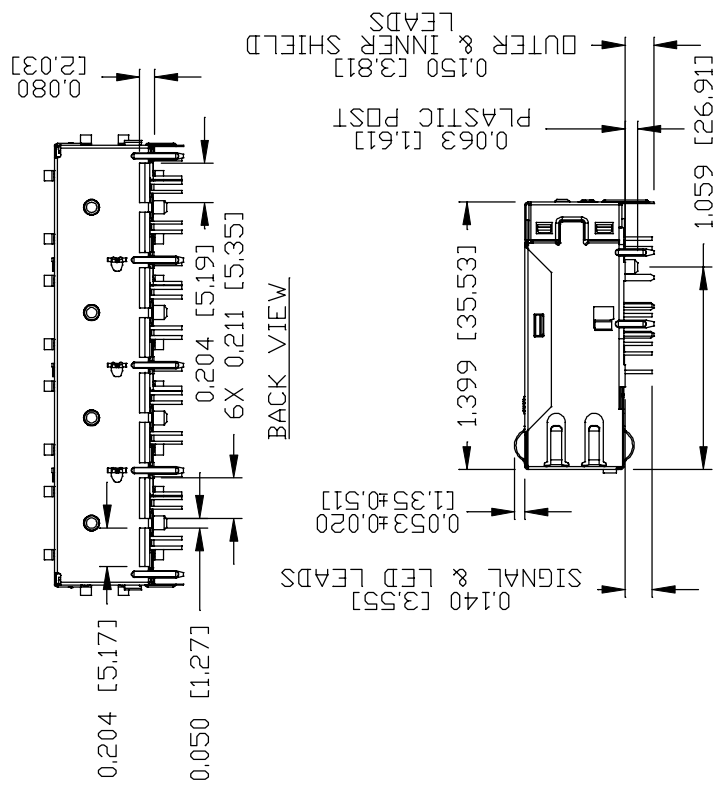
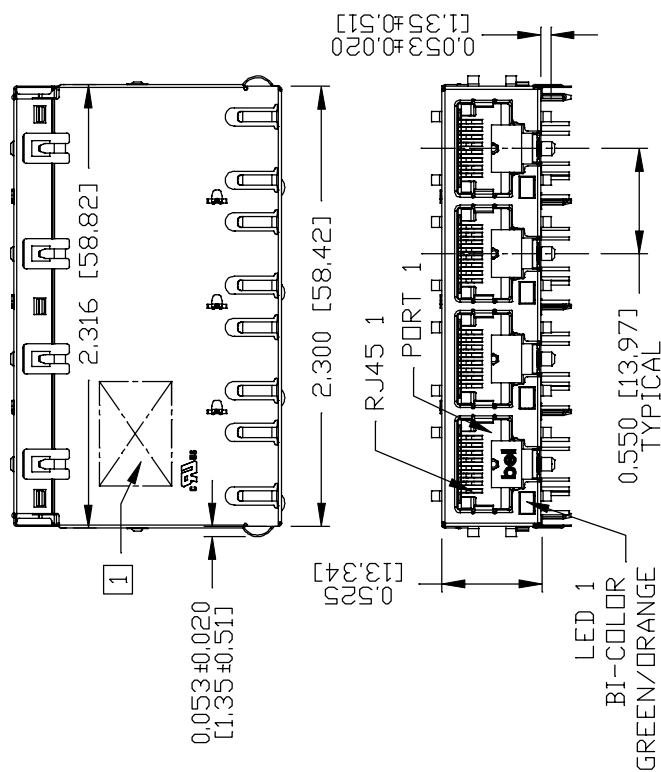
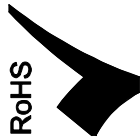
<b>STANDARD DIM. AS REF.</b>	[ ] METRIC DIM.
<b>TOL. IN INCH</b>	AS REF.
<b>.X</b>	UNIT : INCH [mm]
<b>.XX</b>	SCALE : N/A
<b>.XXX</b>	SIZE : A4

REV. : B PAGE : 2



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MECHANICAL SPECIFICATION



NOTES:

- 1. MARK PART WITH MFG. LOGO, MFG. NAME AND "PATENTED",
- 2. THE PRODUCT IS RoHS COMPLIANT.
- 3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.
- 5. THE PART IS RECOMMENDED FOR WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

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ORIGINATED BY ANTON LIAO	TITLE 1X4 5 gigabit MagJack®
DATE 2019-03-29	4PPoE PATENTED G04-4N1A-129A
DRAWN BY SANDY LIN	
DATE 2019-03-29	

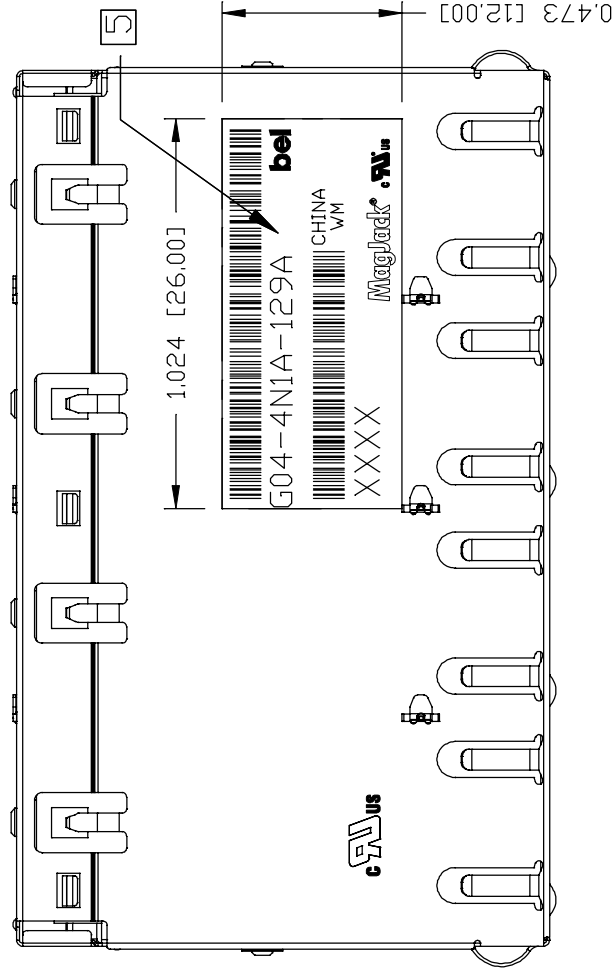
PART NO. / DRAWING NO. G04-4N1A129A	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[ ] METRIC DIM. AS REF.
FILE NAME G04-4N1A129A_B.DWG	UNIT : INCH [mm]	
	SCALE : N/A	
	SIZE : A4	

REV. : B	PAGE : 3
 <b>MAGNETIC SOLUTIONS</b> a bel group	

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RoHS



NOTES:

- [5] LABEL IS LOCATED IN THE APPROXIMATE AREA SHOWN. THE CONTENTS ON LABEL ARE BAR CODE OF PART NUMBER, PART NUMBER, BAR CODE OF DATE CODE, DATE CODE, BEL LOGO, COUNTRY OF ORIGIN AND AGENCY APPROVAL LOGO.

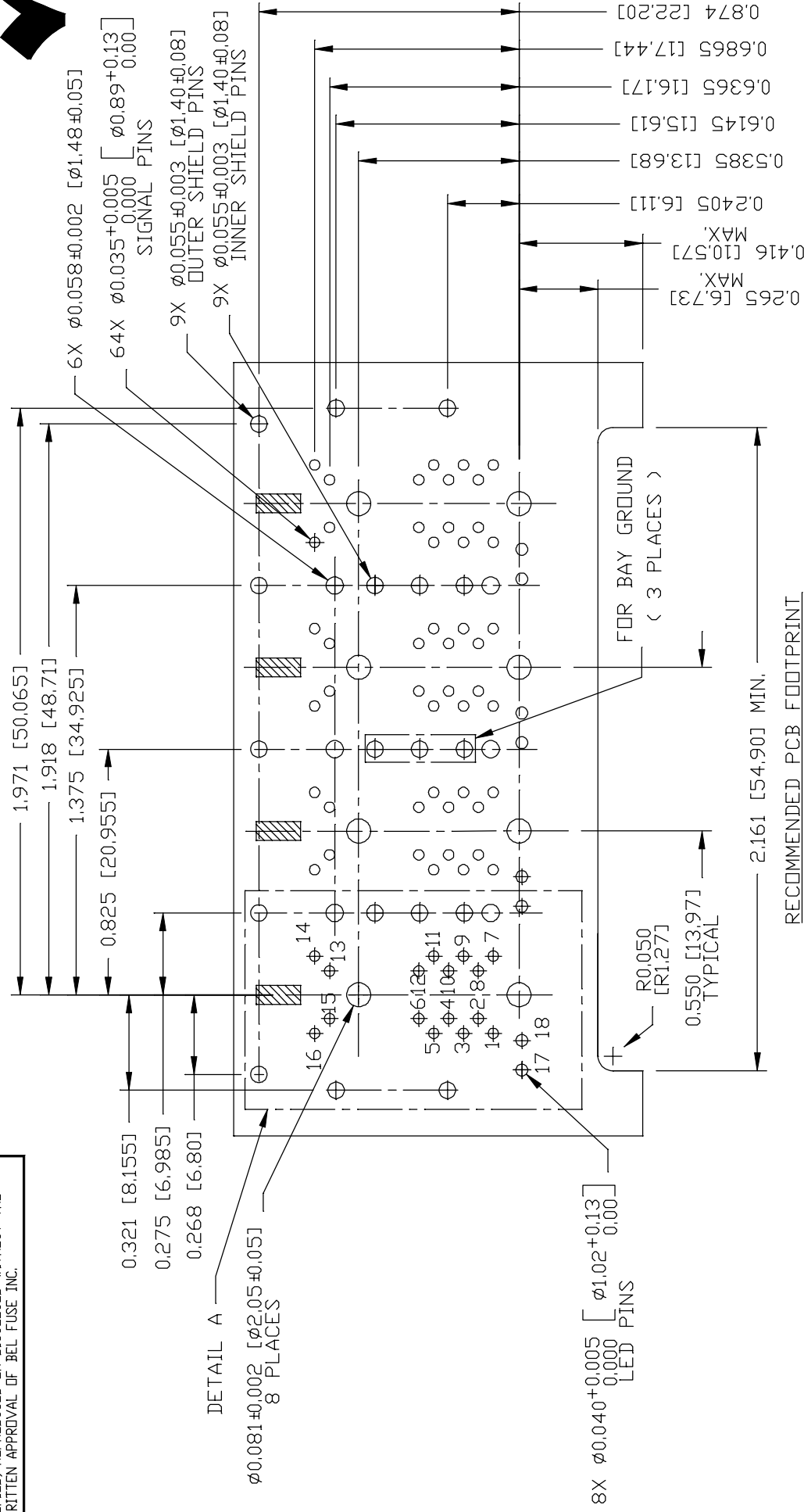
REV. : B PAGE : 4

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<b>ORIGINATED BY</b> ANTON LIAO <b>DATE</b> 2019-03-29 <b>DRAWN BY</b> SANDY LIN <b>DATE</b> 2019-03-29	<b>TITLE</b> 1X4 5 gigabit MagJack® 4PPOE PATENTED G04-4N1A-129A	<b>PART NO. / DRAWING NO.</b> G04-4N1A129A <b>FILE NAME</b> G04-4N1A129A_B.DWG	<b>STANDARD DIM.</b> TOL. IN INCH .X .XX .XXX	<b>[ ] METRIC DIM.</b> AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
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RoHS

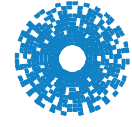


RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW

REV. :	B	PAGE :	5
STANDARD DIM. AS REF.	[ ] METRIC DIM.		
TOL. IN INCH	UNIT : INCH [mm]		
.X	SCALE : N/A		
.XX	SIZE : A4		
.XXX			
PART NO. / DRAWING NO.	G04-4N1A129A		
FILE NAME	G04-4N1A129A_B.DWG		
TITLE	1X4 5 gigabit MagJack® 4PPOE PATENTED G04-4N1A-129A		
ORIGINATED BY	ANTON LIAO		
DATE	2019-03-29		
DRAWN BY	SANDY LIN		
DATE	2019-03-29		

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MAGNETIC SOLUTIONS

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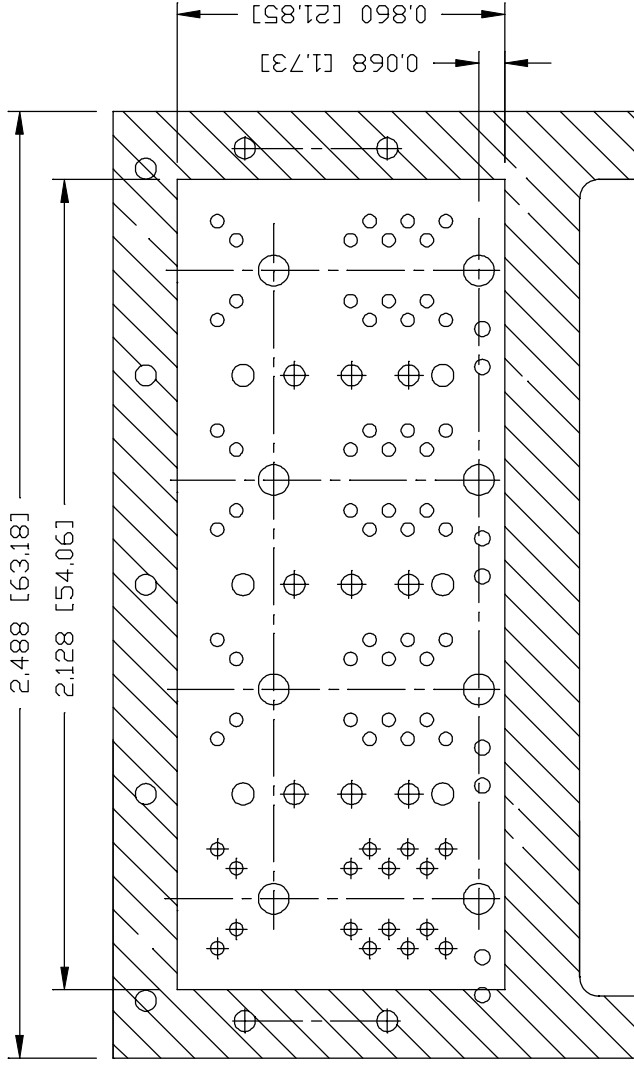
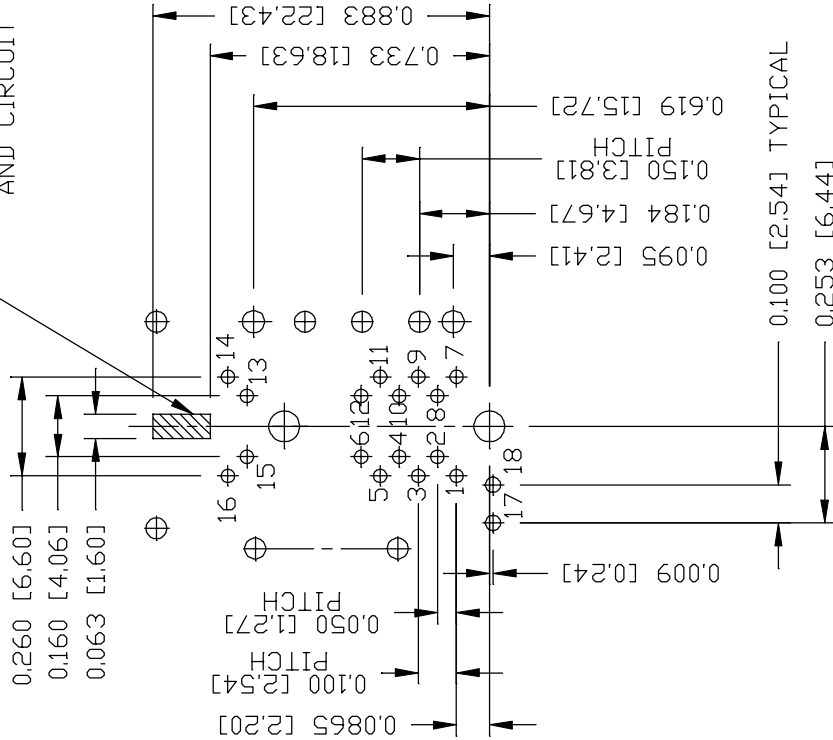
DC002(2)120214

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RoHS



THE GROUNDING TAB OF CONNECTOR IS ON THE TOP OF HATCHED AREA, IT IS RECOMMENDED THIS AREA TO BE CLEAR OF ANY COMPONENT AND CIRCUIT TRACE EXCEPT GROUNDING TRACE



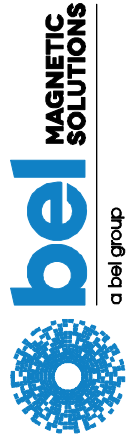
NOTES:

THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD. < EXCEPT FOR GROUNDING OR LED LAYOUT >

DETAIL A

<b>ORIGINATED BY</b> ANTON LIAD	<b>TITLE</b> 1X4 5 gigabit MagJack®	<b>PART NO. / DRAWING NO.</b> G04-4N1A129A	<b>STANDARD DIM.</b> TOL. IN INCH	<b>[ ] METRIC DIM.</b> AS REF.
<b>DATE</b> 2019-03-29	<b>4PPoE</b> <b>PATENTED</b> G04-4N1A-129A	<b>FILE NAME</b> G04-4N1A129A_B.DWG	<b>.X</b>	<b>UNIT : INCH [mm]</b>
<b>DRAWN BY</b> SANDY LIN			<b>.XX</b>	<b>SCALE : N/A</b>
<b>DATE</b> 2019-03-29			<b>.XXX</b>	<b>SIZE : A4</b>

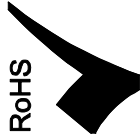
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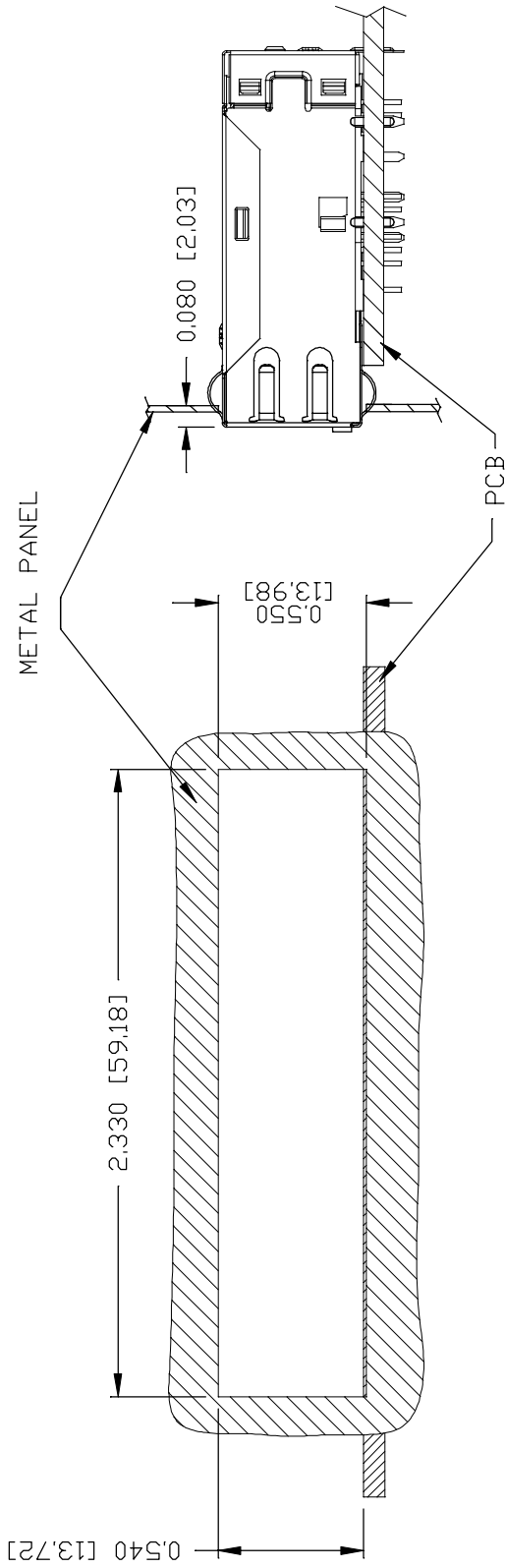
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SUGGESTED PANEL OPENING



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-J9 (TOP)  
0200M9999-J8 (BOTTOM)

PACKING QUANTITY : 16 PCS FINISHED GOODS PER TRAY

10 TRAYS (160 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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