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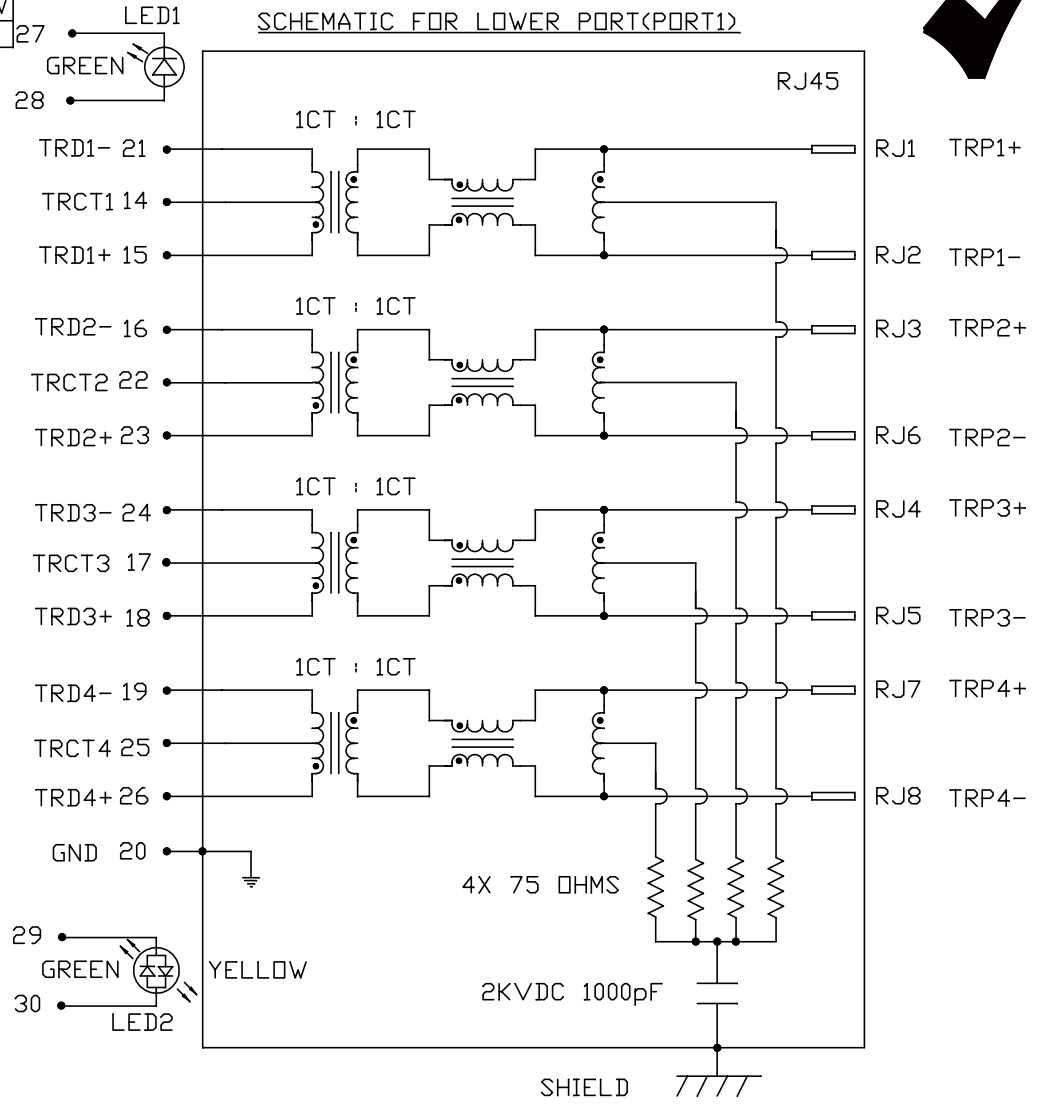
LED1 POLARITY			LED2 POLARITY		
PIN 27	PIN 28	COLOR	PIN 29	PIN 30	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

RoHS



**ELECTRICAL CHARACTERISTICS @ 25°C**

<b>URNS RATIO</b>	
TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%
OCCL @ 100kHz,100mVRMS	350 μH MIN.
8mA DC BIAS	
<b>INS. LOSS</b>	
100KHz TO 100MHz	-1.1 dB MAX
<b>RET. LOSS (MIN)</b>	
1MHz-30MHz	-18 dB
30MHz-60MHz	-16 dB
60MHz-80MHz	-14 dB
80MHz-100MHz	-12 dB
<b>CM TO CM REJ</b>	
100kHz - 100MHz	-25 dB TYP
<b>CROSS TALK</b>	
1MHz - 60MHz	-35 dB TYP
60MHz - 100MHz	-25 dB TYP
<b>HIPOT (Isolation Voltage):</b>	
	1500 Vrms
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.	
<b>INTERWINDING CAPACITANCE</b>	
PER CHANNEL (PRI. TO SEC.)	50pF Max @ 1MHz
<b>DC RESISTANCE</b>	
(21-15)=(16-23)=(24-18)=(19-26)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max
<b>LED 1</b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 570nm TYP.
<b>LED 2</b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 570nm TYP.
	IF=20mA GREEN 570nm TYP.
	YELLOW 2.1V TYP.
	YELLOW 590nm TYP.
OPERATING TEMPERATURE: 0°C TO +70°C.	



ORIGINATED BY  
CHOW WANCHUNG  
DATE 2017-02-25

DRAWN BY  
XIE YIMING  
DATE 2017-02-25

**TITLE**

2X1 gigabit MagJack®  
(WITH LED)  
PATENTED

**PART NO. / DRAWING NO.**

0845-2R1T-E4

**FILE NAME**

0845-2R1T-E4\_H.DWG

**STANDARD DIM. TOL. IN INCH**

.X  
.XX  
.XXX

**[ ] METRIC DIM. AS REF.**

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

REV. : H PAGE : 2



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LED3 POLARITY			LED4 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

RoHS



**ELECTRICAL CHARACTERISTICS @ 25°C**

**URNS RATIO**

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

**QCL @ 100kHz,100mVRMS**

8mA DC BIAS 350 µH MIN.

**INS. LOSS**

100kHz TO 100MHZ -1.1 dB MAX

**RET. LOSS (MIN)**

1MHz-30MHz -18 dB

30MHz-60MHz -16 dB

60MHz-80MHz -14 dB

80MHz-100MHz -12 dB

**CM TO CM REJ**

100kHz - 100MHz -25 dB TYP

**CROSS TALK**

1MHz - 60MHz -35 dB TYP

60MHz - 100MHz -25 dB TYP

**HIPOT (Isolation Voltage):**

1500 Vrms

100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISOLATION REQUIREMENTS.

**INTERWINDING CAPACITANCE**

PER CHANNEL (PRI. TO SEC.) 50pF Max @ 1MHz

**DC RESISTANCE**

(13-6)=(5-11)=(10-3)=(2-8) 1.2 ohms Max

(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8) 1.2 ohms Max

**LED 3 (Super bright)**

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

**LED 4 (Super bright)**

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

IF=20mA GREEN 570nm TYP.

IF=20mA GREEN 570nm TYP.

IF=20mA GREEN 570nm TYP.

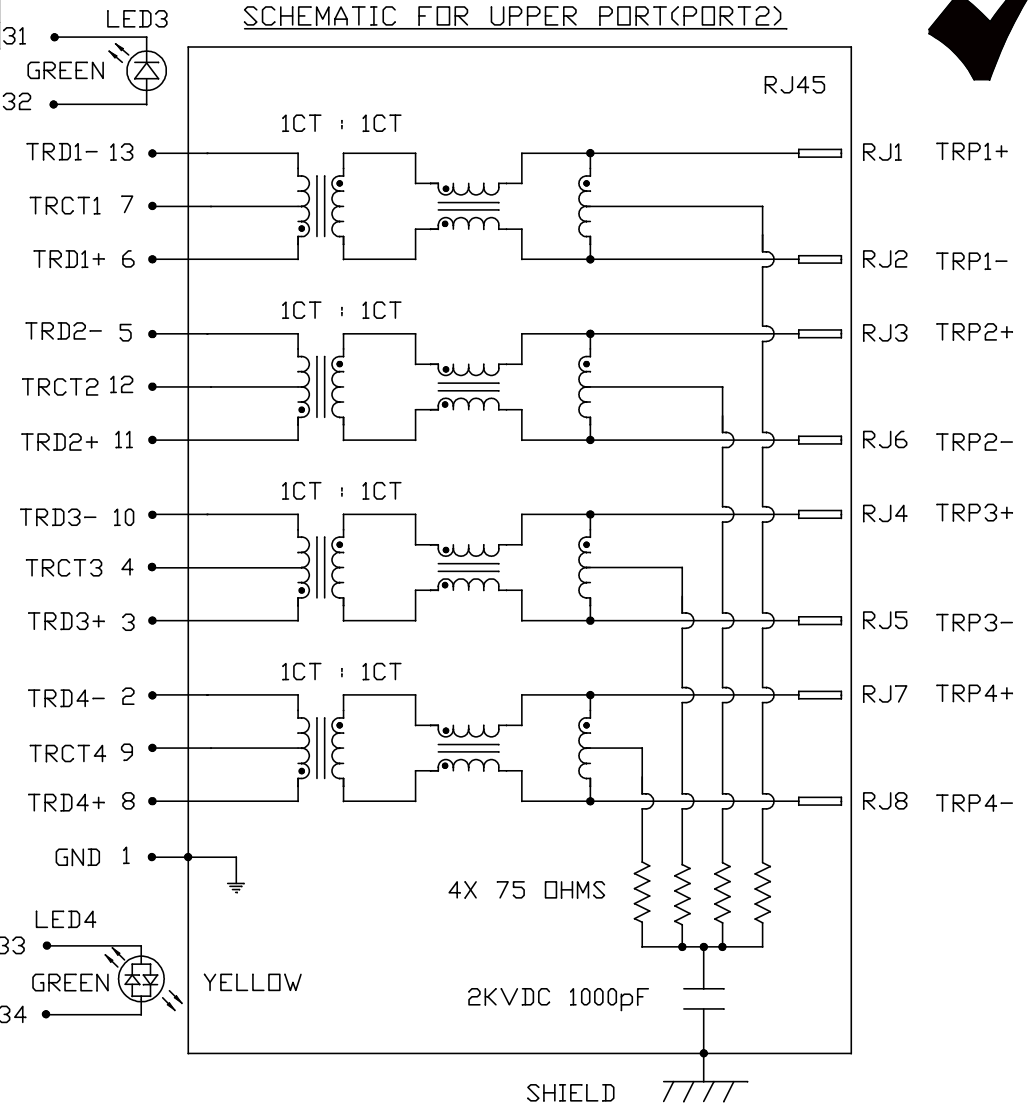
IF=20mA GREEN 570nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.

<b>ORIGINATED BY</b> CHOW WANCHUNG	<b>TITLE</b> 2X1 gigabit MagJack® (WITH LED) PATENTED
<b>DATE</b> 2017-02-25	
<b>DRAWN BY</b> XIE YIMING	
<b>DATE</b> 2017-02-25	

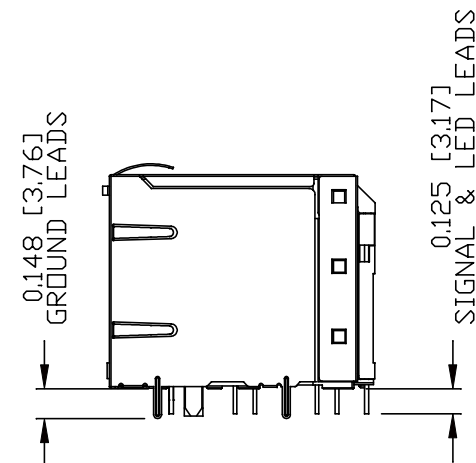
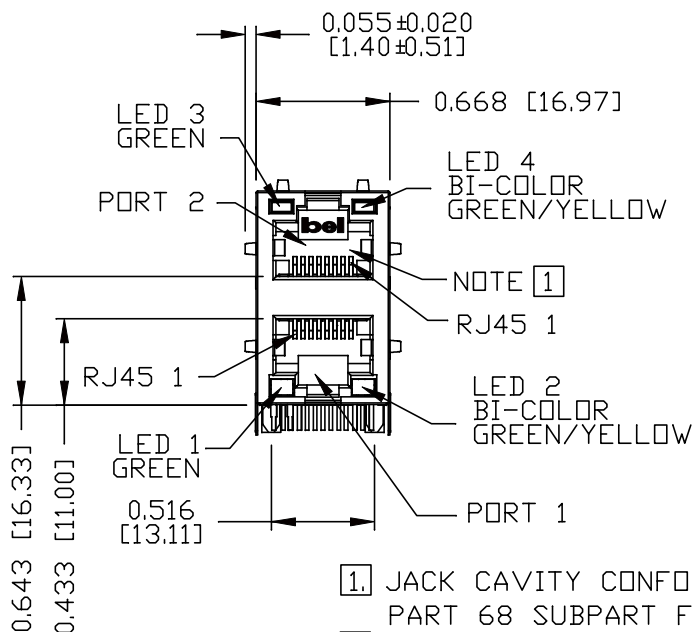
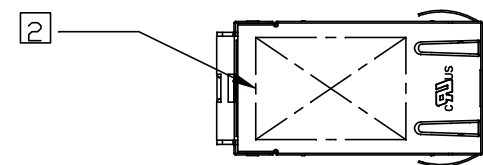
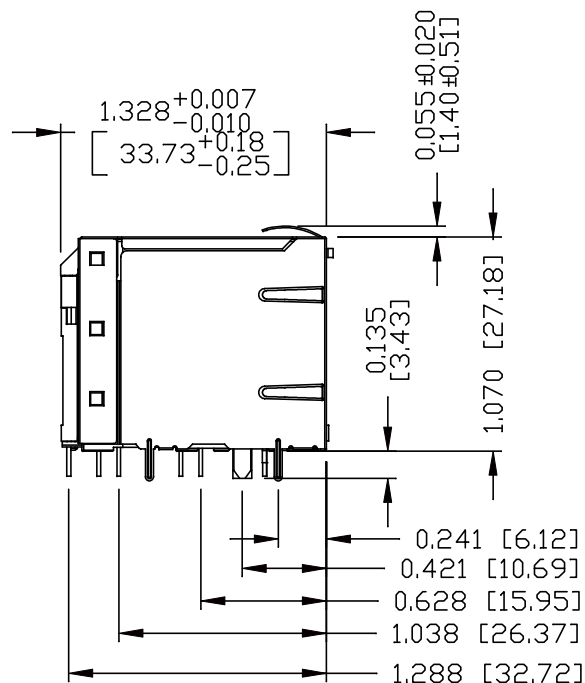
<b>PART NO. / DRAWING NO.</b> 0845-2R1T-E4	<b>STANDARD DIM.</b> TOL. IN INCH	<b>[ ] METRIC DIM.</b> AS REF.
<b>FILE NAME</b> 0845-2R1T-E4_H.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A SIZE : A4

<b>REV. :</b> H	<b>PAGE :</b> 3
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NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK  
 FLAMMABILITY RATING UL 94V-0  
 CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT,  
 30 MICRO-INCH MIN NICKEL UNDERPLATE.  
 OUTPUT 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)

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.
3. THE PRODUCT IS RoHS COMPLIANCE.
4. THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 6,840,817
5. THE PRODUCT IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX. AND 10 SECONDS MAX..

UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY  
 ANTON LIAO  
 DATE 2017-02-25  
 DRAWN BY  
 LIU DONGJUN  
 DATE 2017-02-25

TITLE  
 2X1 gigabit MagJack®  
 (WITH LED)  
 PATENTED

PART NO. / DRAWING NO.  
 0845-2R1T-E4  
 FILE NAME  
 0845-2R1T-E4\_H.DWG

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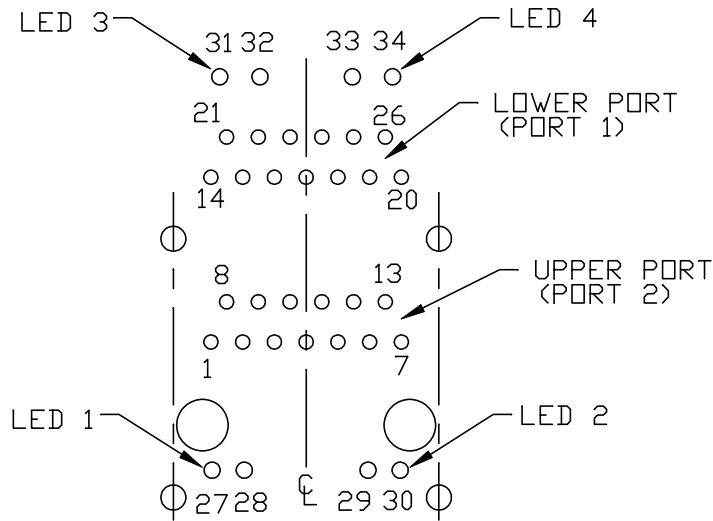


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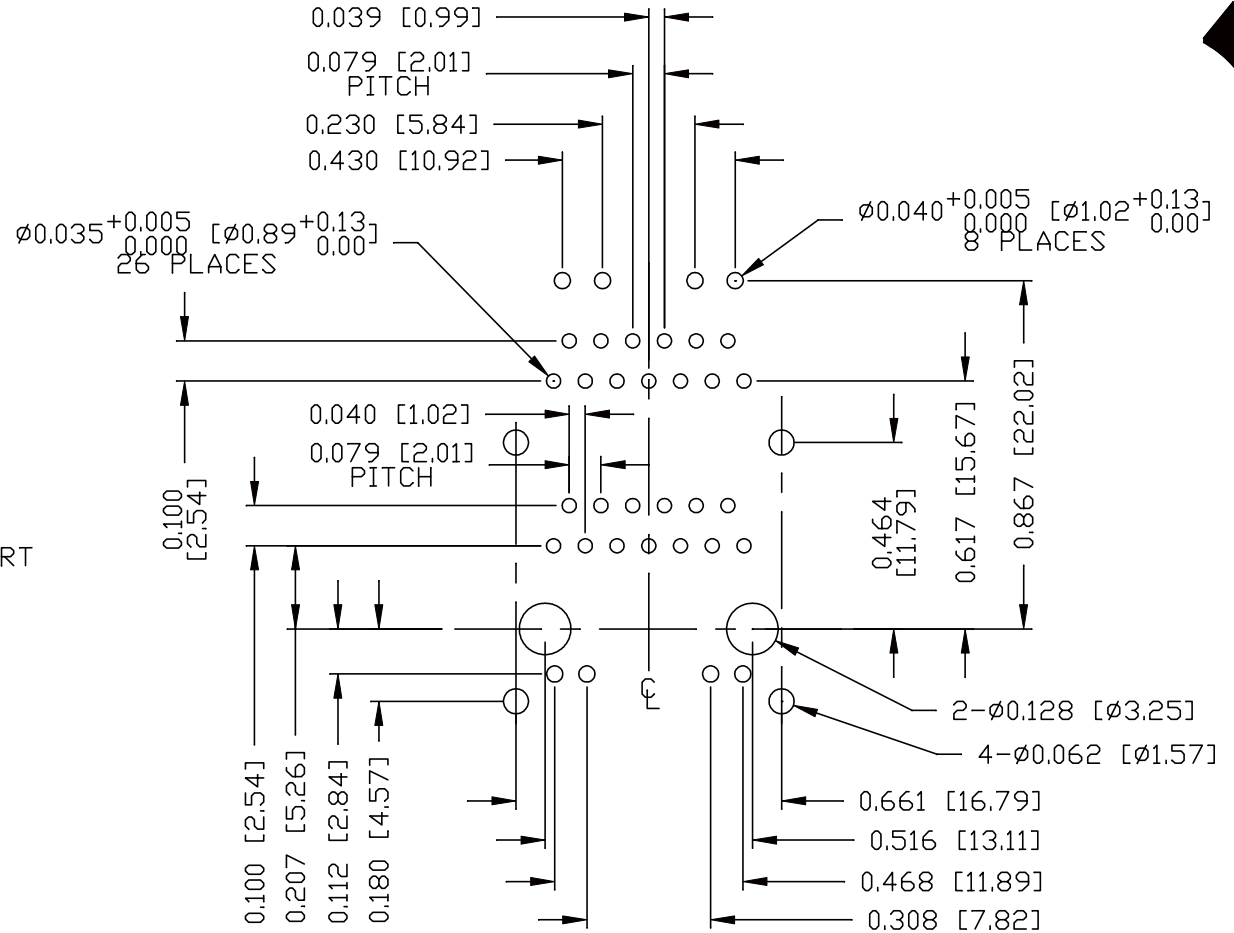
RoHS



LED CONFIGURATION



PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)



SUGGESTED FOOTPRINT  
(COMPONENT SIDE VIEW)

ORIGINATED BY  
ANTON LIAD  
DATE 2017-02-25

DRAWN BY  
LIU DONGJUN  
DATE 2017-02-25

TITLE  
2X1 gigabit MagJack®  
(with LED)  
PATENTED

PART NO. / DRAWING NO.  
0845-2R1T-E4

FILE NAME  
0845-2R1T-E4\_H.DWG

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

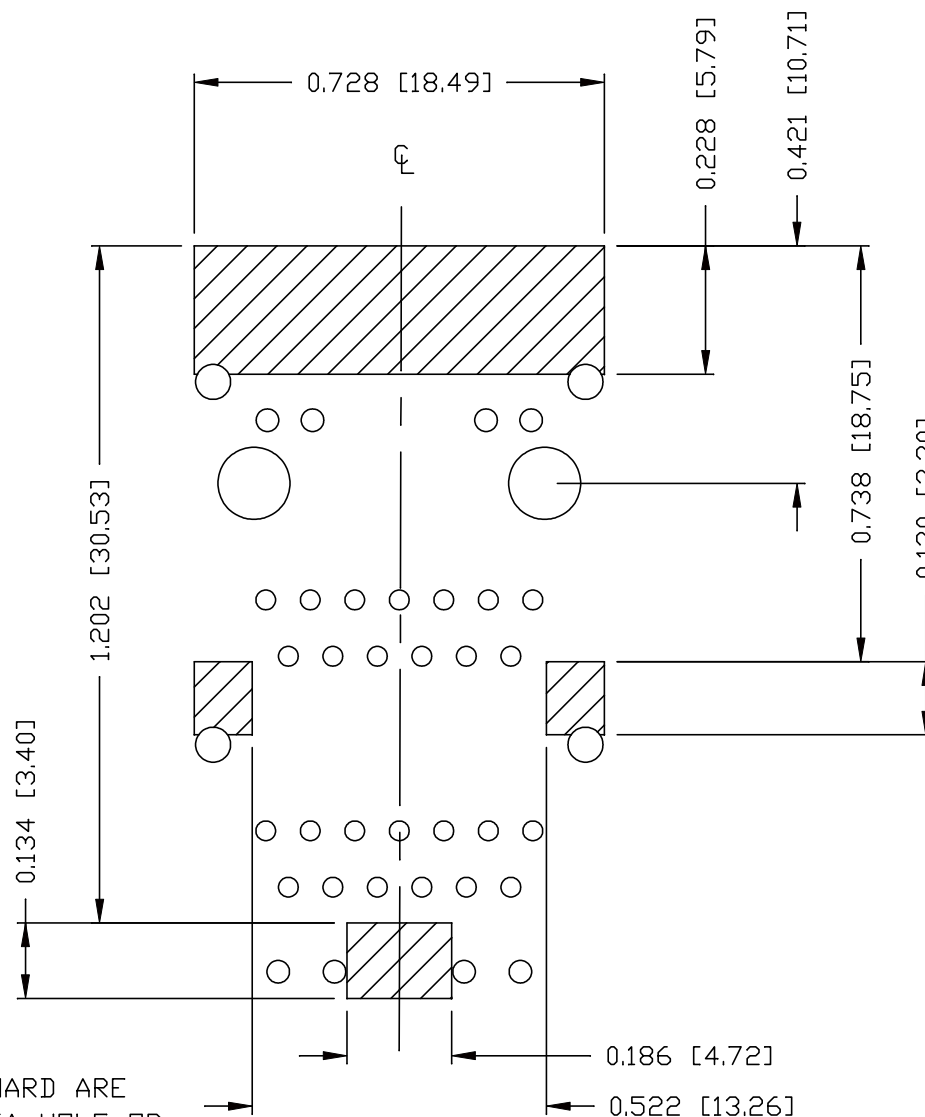
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.XX		SCALE : N/A
.XXX	±0.004	SIZE : A4

REV. : H PAGE : 5



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NOTES

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

ORIGINATED BY  
ANTON LIAO  
DATE 2017-02-25  
DRAWN BY  
LIU DONGJUN  
DATE 2017-02-25

TITLE  
2X1 gigabit MagJack®  
(WITH LED)  
PATENTED

PART NO. / DRAWING NO.  
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FILE NAME  
0845-2R1T-E4\_H.DWG

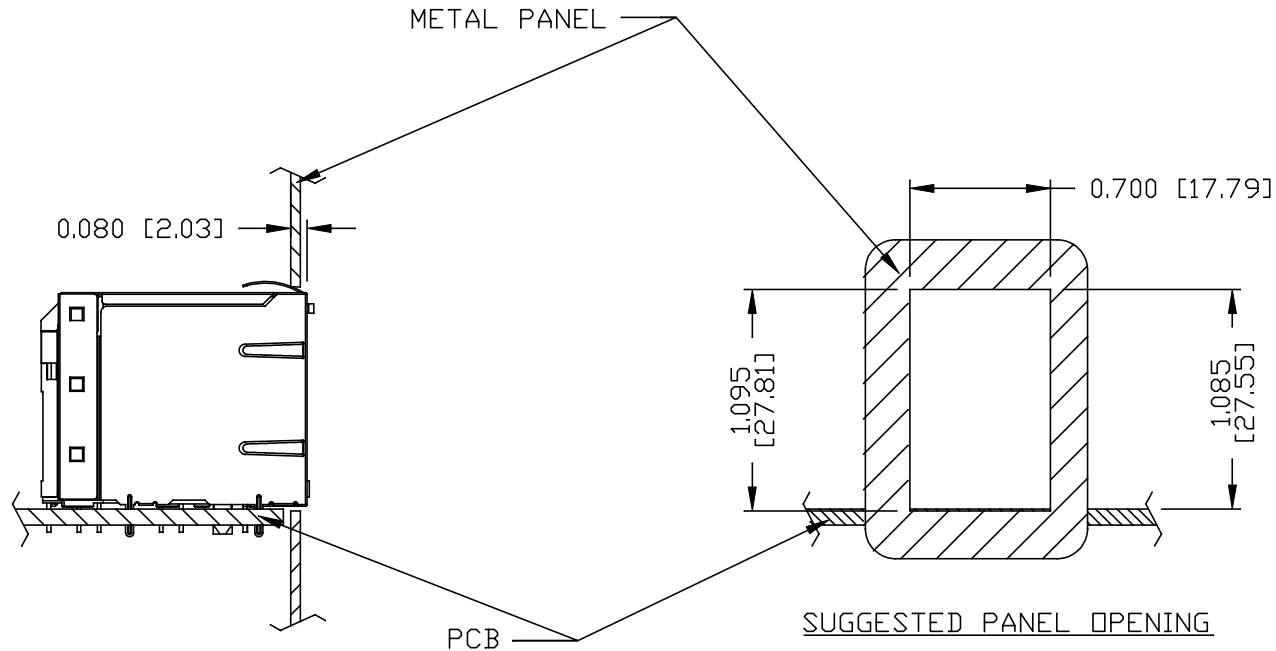
STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	±0.004
	SIZE : A4

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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: 0200-9999-H5 (TOP)  
0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY  
6 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX.

NOTE: CARDBOARD ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.  
(INCLUDE THE UPPERMOST AND LOWEREST TRAY)

REV. : H PAGE : 7

ORIGINATED BY ANTON LIAO DATE 2017-02-25	TITLE 2X1 gigabit MagJack® (WITH LED) PATENTED	PART NO. / DRAWING NO. 0845-2R1T-E4		STANDARD DIM. [ ] METRIC DIM. TOL. IN INCH AS REF.	
		FILE NAME 0845-2R1T-E4_H.DWG		.X	UNIT : INCH [mm]
				.XX	SCALE : N/A
DRAWN BY LIU DONGJUN DATE 2017-02-25			.XXX	±0.004	SIZE : A4

