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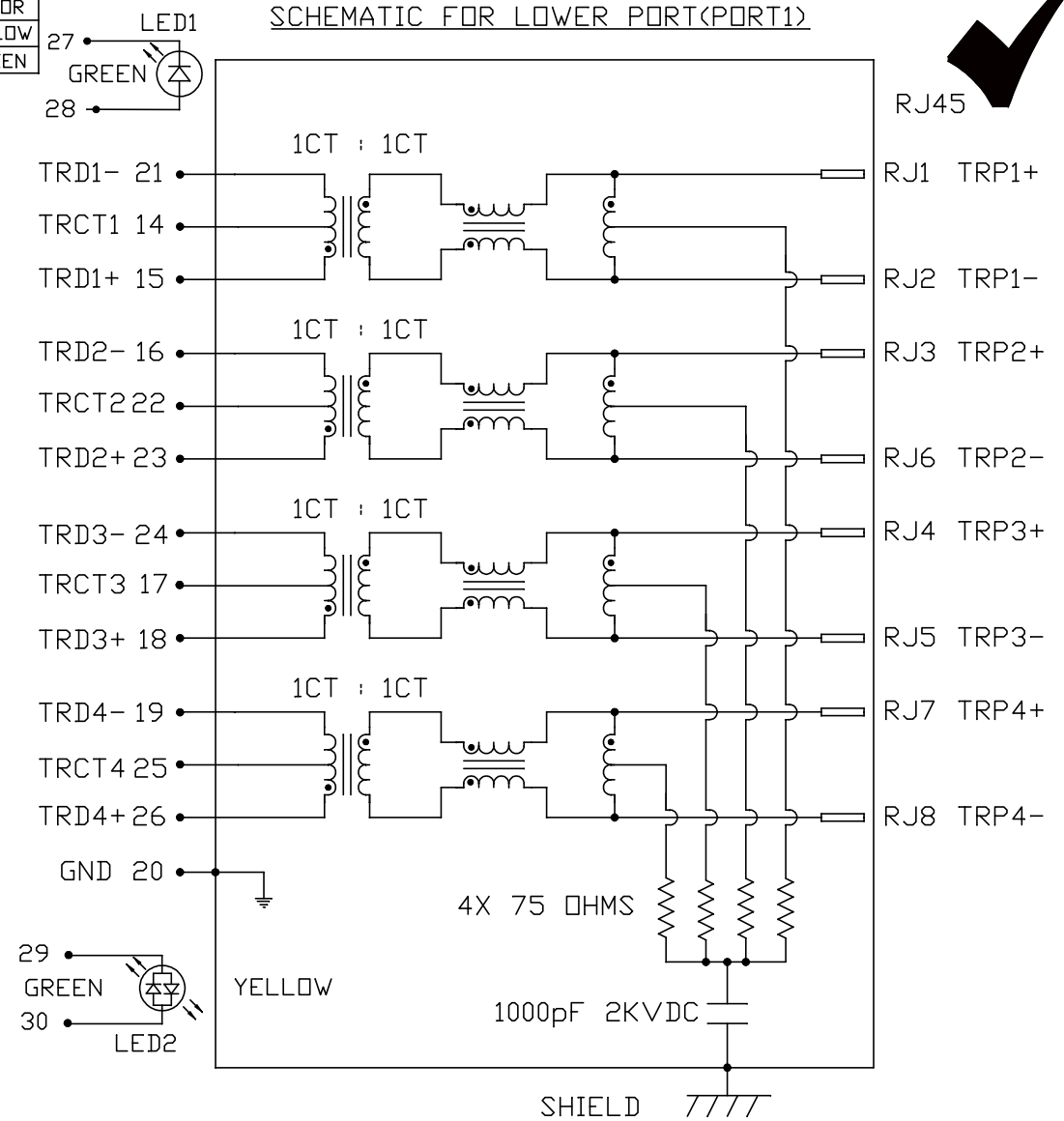
LED1 POLARITY			LED2 POLARITY		
PIN 27	PIN 28	COLOR	PIN 29	PIN 30	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

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%
<b>QCL @ 100kHz,100mVRMS</b>	
8mA DC BIAS	350 μH MIN.
<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>	
100% OF PRODUCT TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS	1500 Vrms
<b>LEAKAGE INDUCTANCE</b>	
PRIMARY W/ SECONDARY SHORTED	0.3μH Max. @ 1MHz
<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>OPERATING TEMPERATURE:</b>	
	-40 TO +85°C
<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 YELLOW 2.1V TYP.
	IF=20mA YELLOW 590nm TYP.



REV. : B PAGE : 2

ORIGINATED BY  
CHOW WANCHUNG  
DATE 2018-12-19  
DRAWN BY  
XIE YIMING  
DATE 2018-12-19

TITLE  
2X1 gigabit MagJack®  
(with LED)  
PATENTED  
(Extend Temperature of -E4)

PART NO. / DRAWING NO.  
0845-2R1T-DY  
FILE NAME  
0845-2R1T-DY\_B.DWG

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

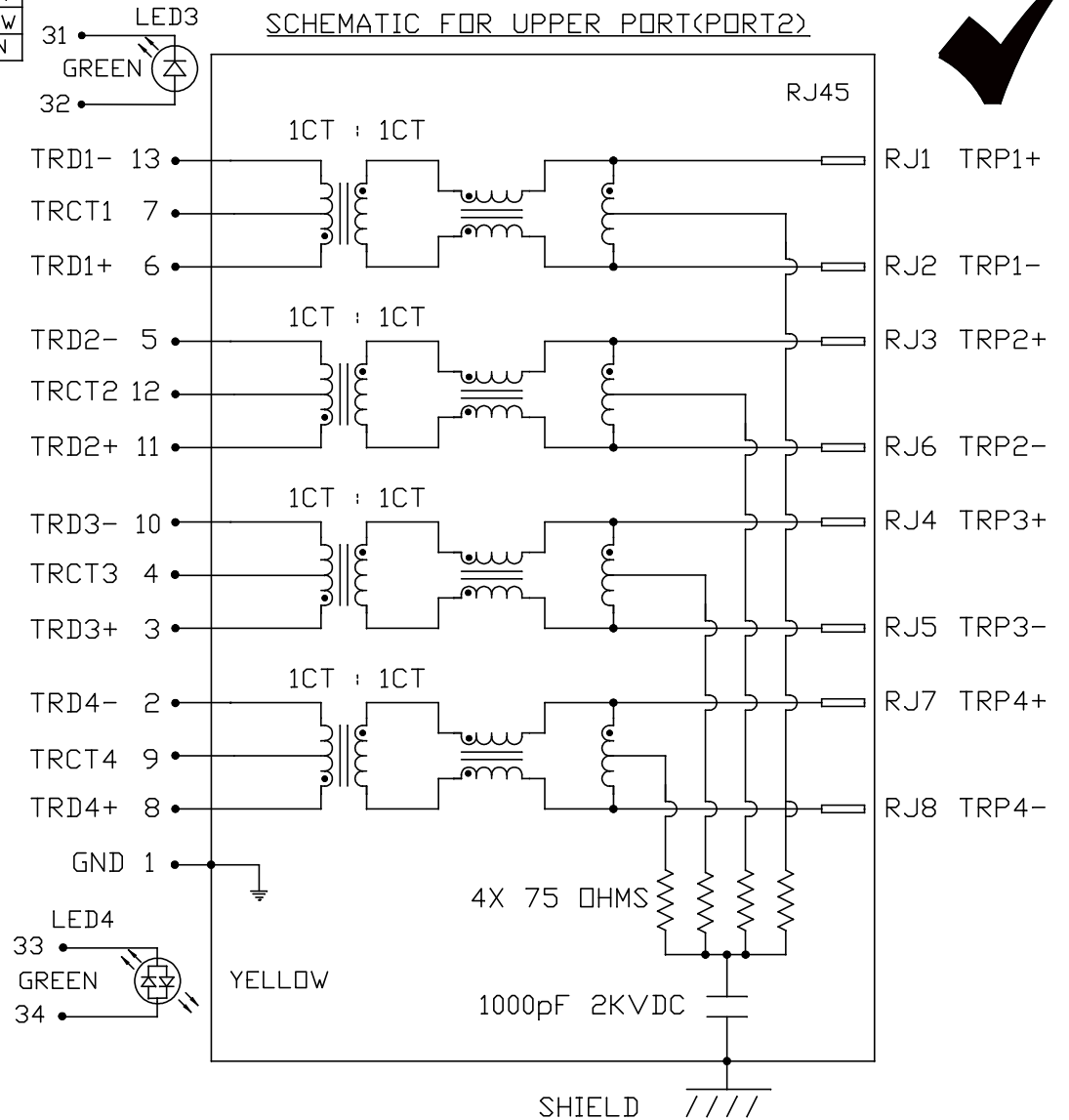


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LED3 POLARITY			LED4 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

**ELECTRICAL CHARACTERISTICS @ 25°C**

<b>URNS RATIO</b>	
TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%
<b>□CL @ 100kHz,100mVRMS</b>	
8mA DC BIAS	350 μH MIN.
<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>	
100% OF PRODUCT TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS	1500 Vrms
<b>LEAKAGE INDUCTANCE</b>	
PRIMARY W/ SECONDARY SHORTED	0.3μH Max. @ 1MHz
<b>INTERWINDING CAPACITANCE</b>	
PER CHANNEL (PRI. TO SEC.)	50pF Max @ 1MHz
<b>DC RESISTANCE</b>	
(13-6)=(5-11)=(10-3)=(2-8)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max
<b>OPERATING TEMPERATURE:</b>	
	-40 TO +85°C
<b>LED 3 (Super bright)</b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 570nm TYP.
<b>LED 4 (Super bright)</b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
	IF=20mA YELLOW 2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 570nm TYP.
	IF=20mA YELLOW 590nm TYP.



REV. : B PAGE : 3

**ORIGINATED BY**  
CHOW WANCHUNG  
**DATE** 2018-12-19

**DRAWN BY**  
XIE YIMING  
**DATE** 2018-12-19

**TITLE**  
2X1 gigabit MagJack®  
(with LED)  
PATENTED  
(Extend Temperature of -E4)

**PART NO. / DRAWING NO.**  
0845-2R1T-DY

**FILE NAME**  
0845-2R1T-DY\_B.DWG

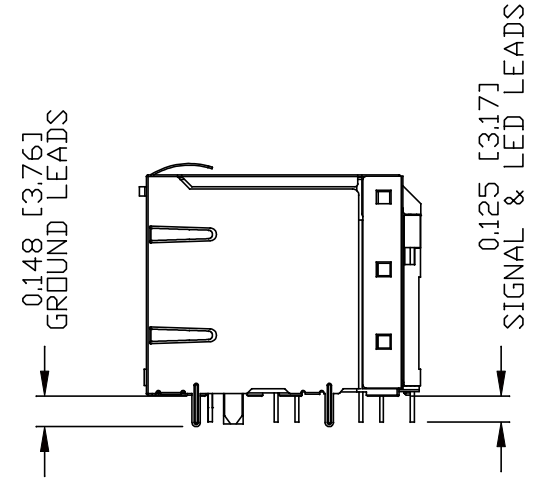
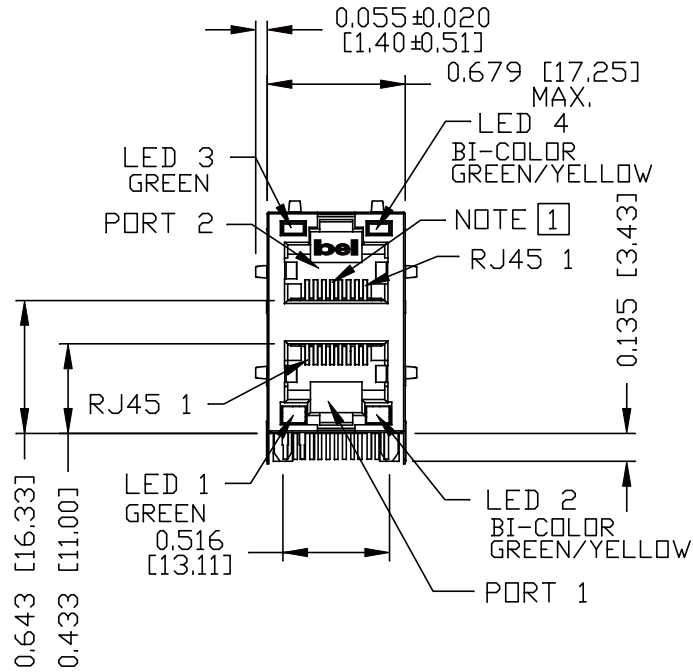
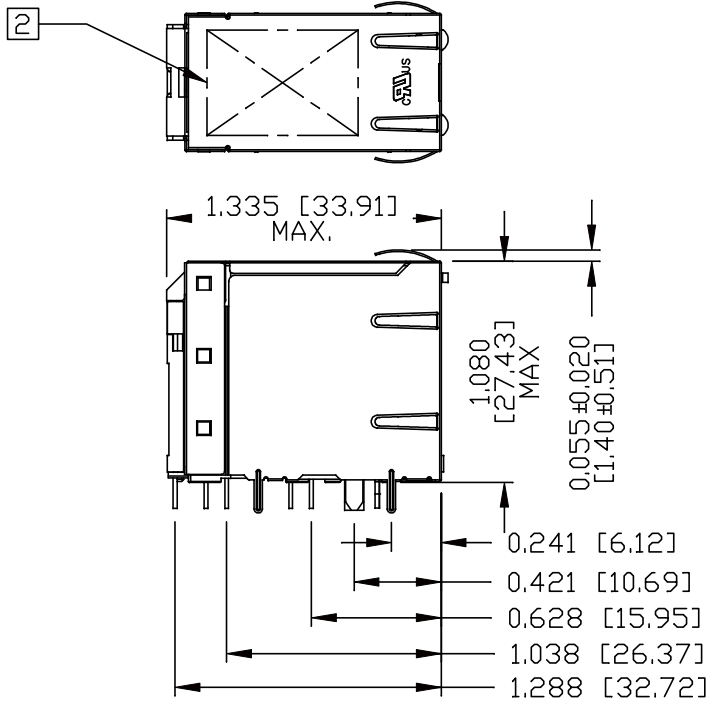
**STANDARD DIM. TOL. IN INCH**

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



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RoHS



NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK  
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.  
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.  
c usUL RECOGNIZED - FILE #E196366 AND E169987.
- 4. THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 6,840,817.
- 5. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

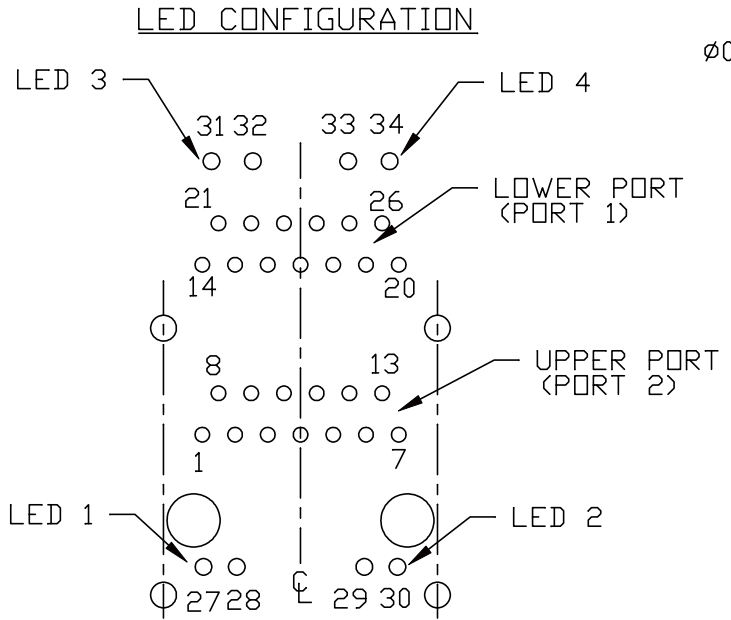
REV. : B PAGE : 4

ORIGINATED BY SANDY LIN DATE 2018-12-19	TITLE 2X1 gigabit MagJack® (with LED) PATENTED (Extend Temperature of -E4)	PART NO. / DRAWING NO. 0845-2R1T-DY	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.
		FILE NAME 0845-2R1T-DY_B.DWG	.X	UNIT : INCH [mm]
			.XX	SCALE : N/A
			.XXX ±0.010	SIZE : A4

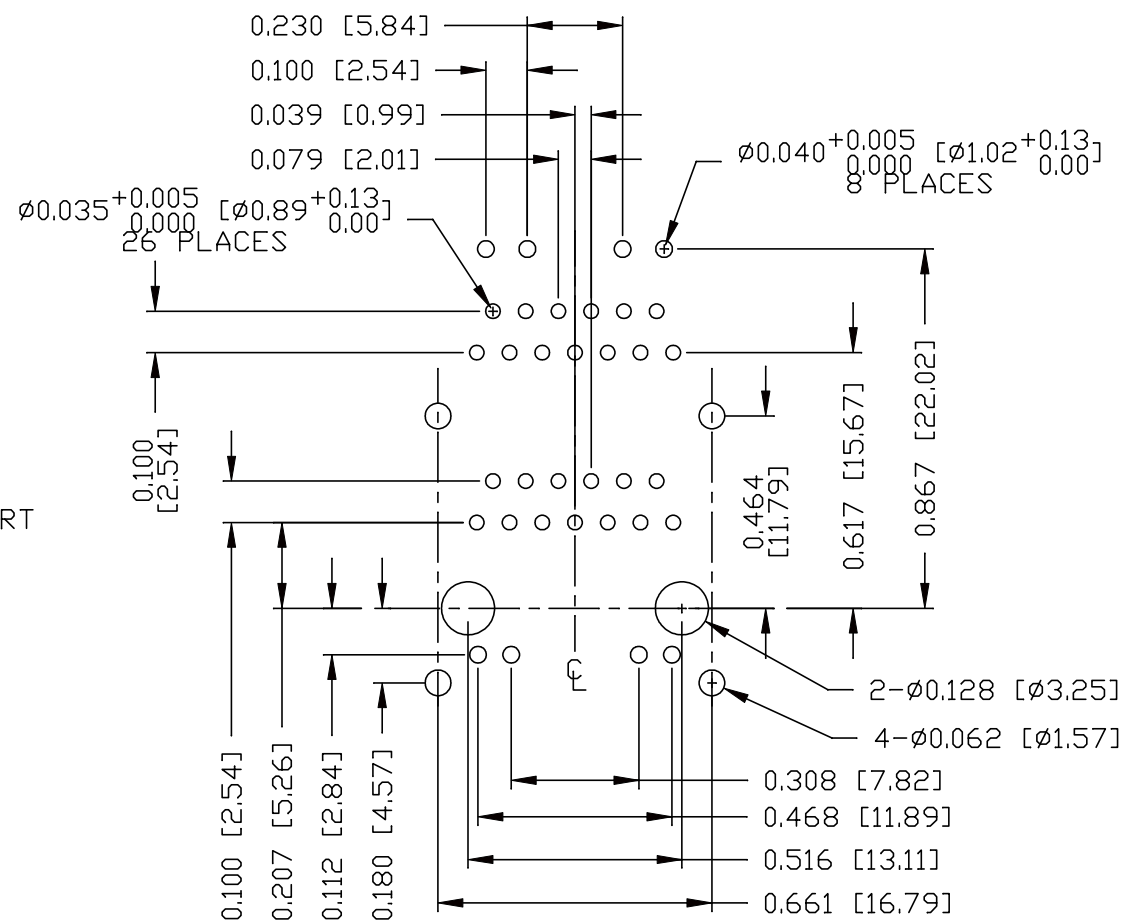




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**PIN-OUT INFORMATION**  
 (COMPONENT SIDE VIEW)  
 (SCALE 2:1)



ORIGINATED BY  
 SANDY LIN  
 DATE 2018-12-19

DRAWN BY  
 OLIVER ZHANG  
 DATE 2018-12-19

TITLE  
 2X1 gigabit MagJack®  
 (with LED)  
 PATENTED  
 (Extend Temperature of -E4)

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

FILE NAME  
 0845-2R1T-DY\_B.DWG

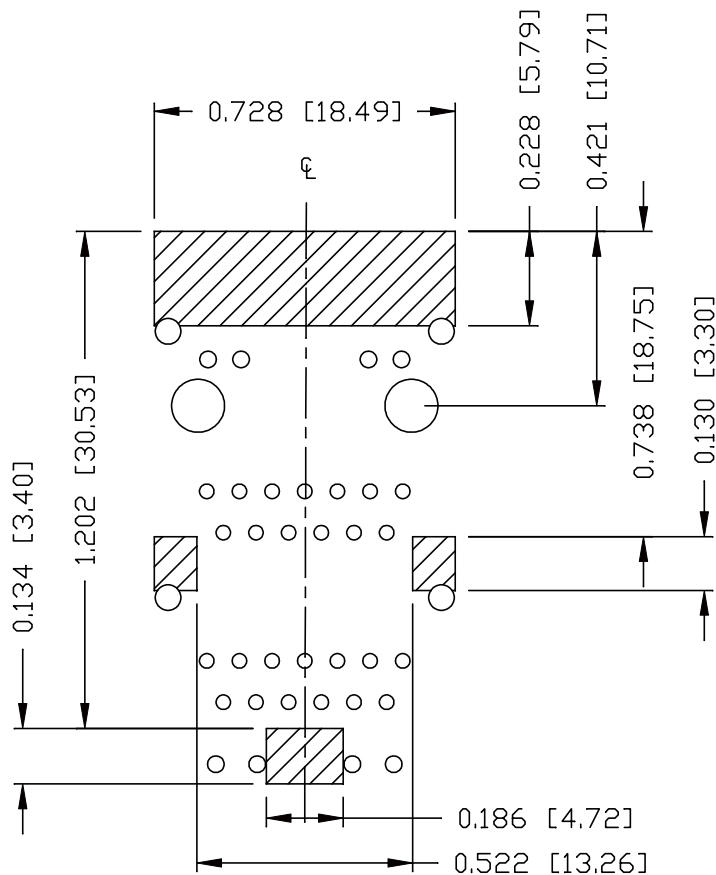
STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.	
.X		UNIT : INCH [mm]	
.XX		SCALE : N/A	
.XXX	±0.004	SIZE : A4	

REV. : B PAGE : 5



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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.

REV. : B PAGE : 6

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SANDY LIN  
DATE 2018-12-19

DRAWN BY  
OLIVER ZHANG  
DATE 2018-12-19

TITLE  
2X1 gigabit MagJack®  
(with LED)  
PATENTED  
(Extend Temperature of -E4)

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

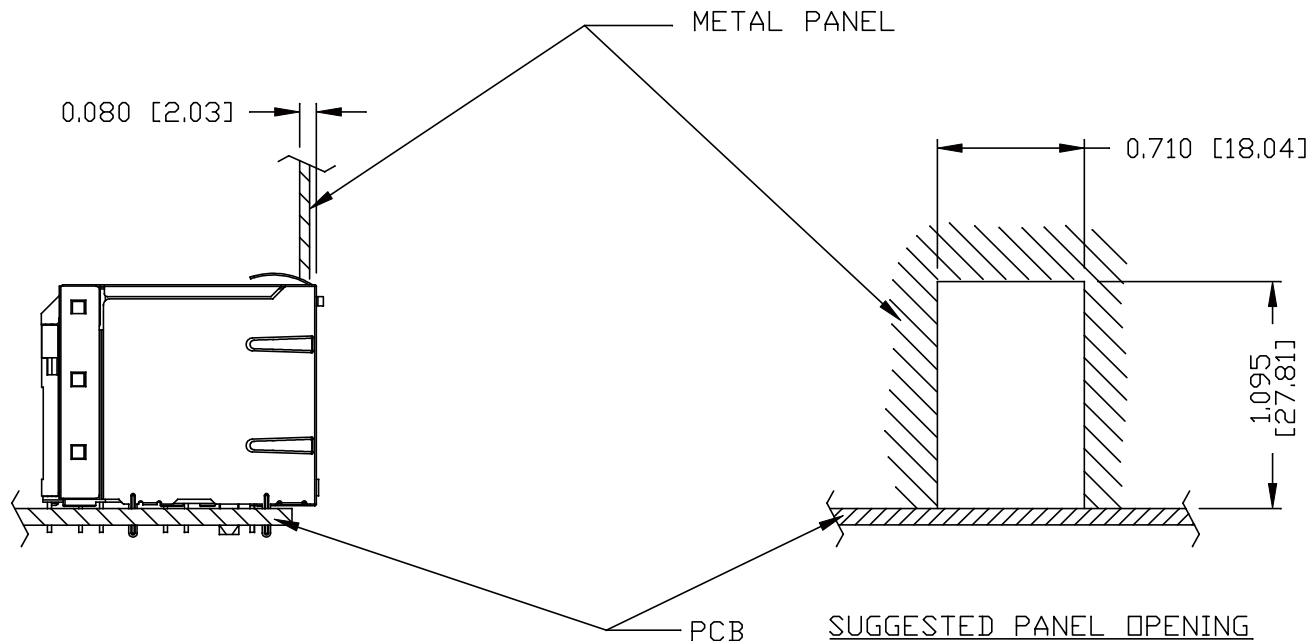
FILE NAME  
0845-2R1T-DY\_B.DWG

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. :	B	PAGE :	7
			

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		FILE NAME 0845-2R1T-DY_B.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A SIZE : A4
			±0.005	

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