

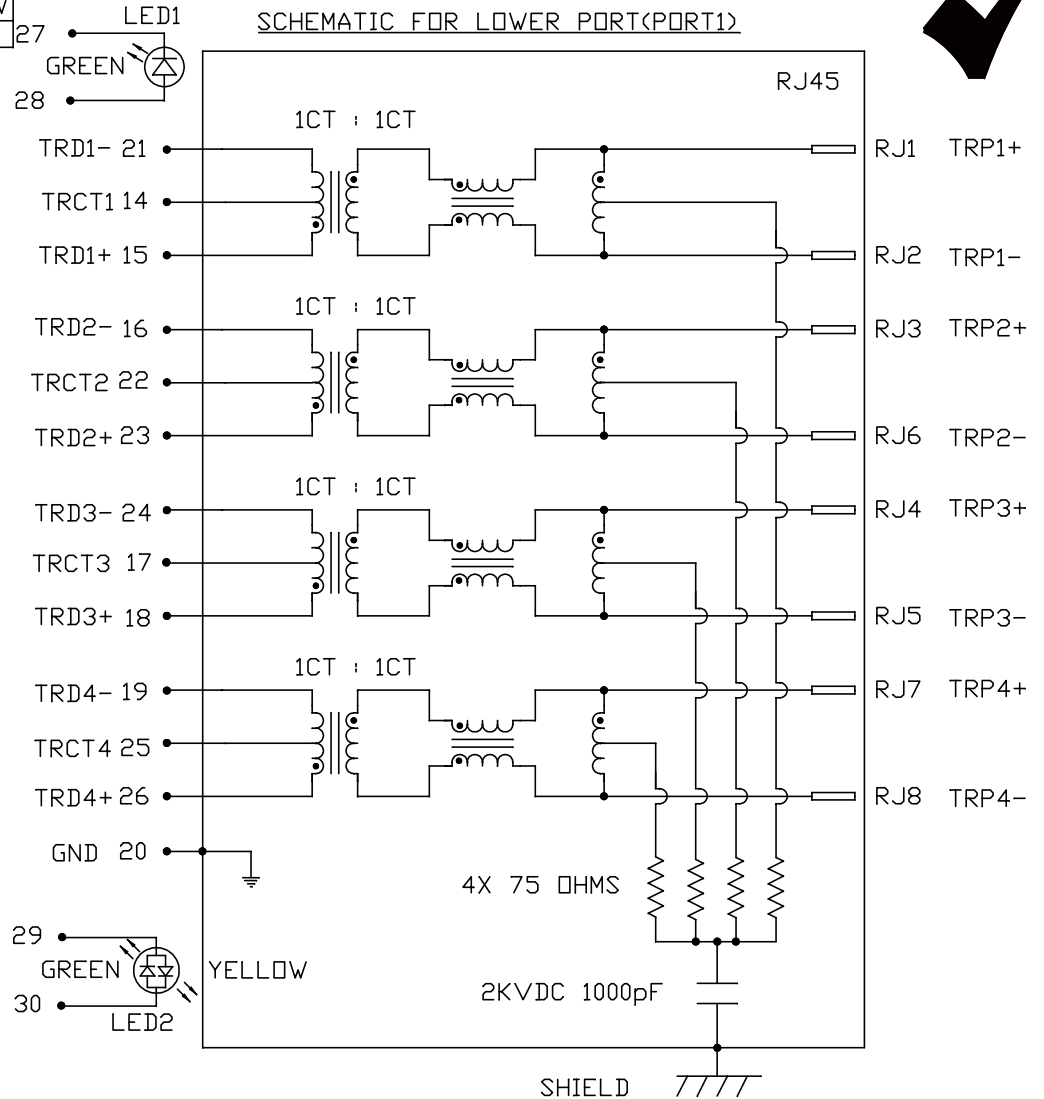
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LED1 POLARITY			LED2 POLARITY		
PIN 27	PIN 28	COLOR	PIN 29	PIN 30	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO	
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	
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	
(21-15)=(16-23)=(24-18)=(19-26)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max
LED 1	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 570nm TYP.
LED 2	
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.

REV. :	H	PAGE :	2
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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	[] METRIC DIM. AS REF.
.x	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4



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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

TURNS 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.

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

LED 4 (Super bright)

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

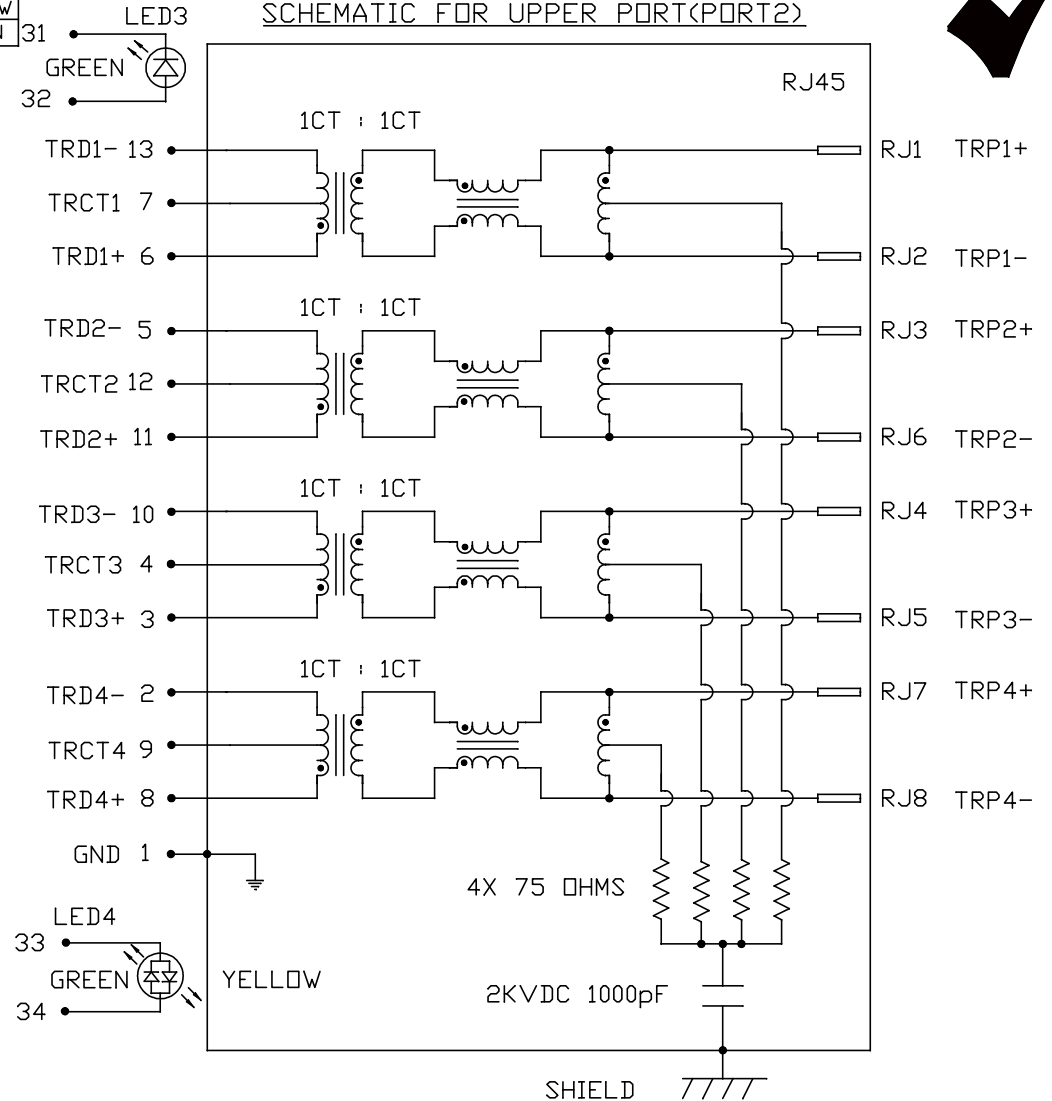
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

IF=20mA GREEN 570nm TYP.

IF=20mA GREEN 570nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C, YELLOW 590nm TYP.

SCHEMATIC FOR UPPER PORT(PORT2)



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CHOW WANCHUNG
DATE 2017-02-25

DRAWN BY
XIE YIMING
DATE 2017-02-25

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PATENTED

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

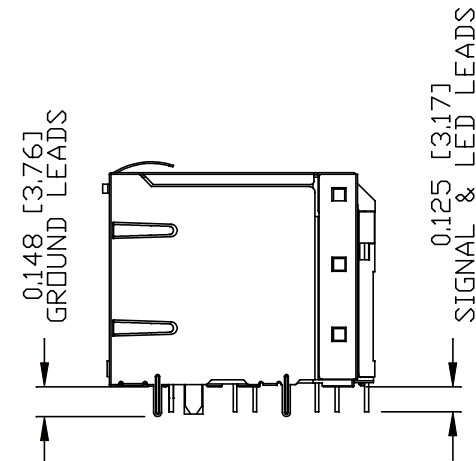
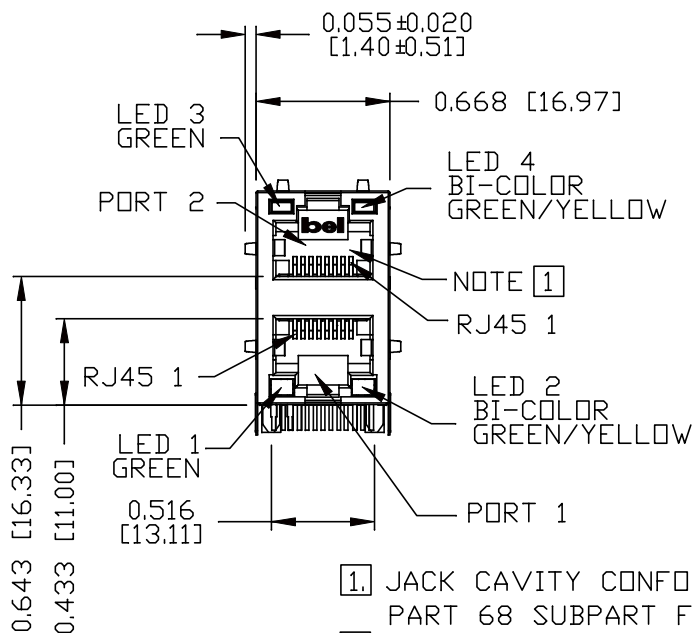
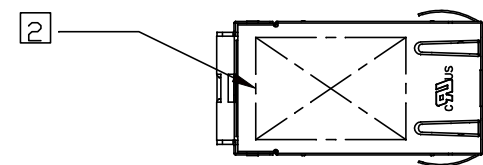
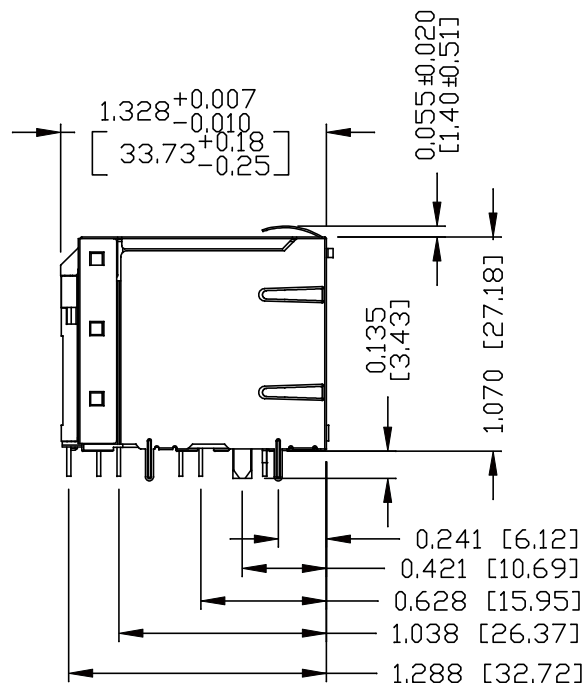
.X UNIT : INCH [mm]
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NOTES:

- 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
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STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX ±0.010	SIZE : A4

REV. : H PAGE : 4

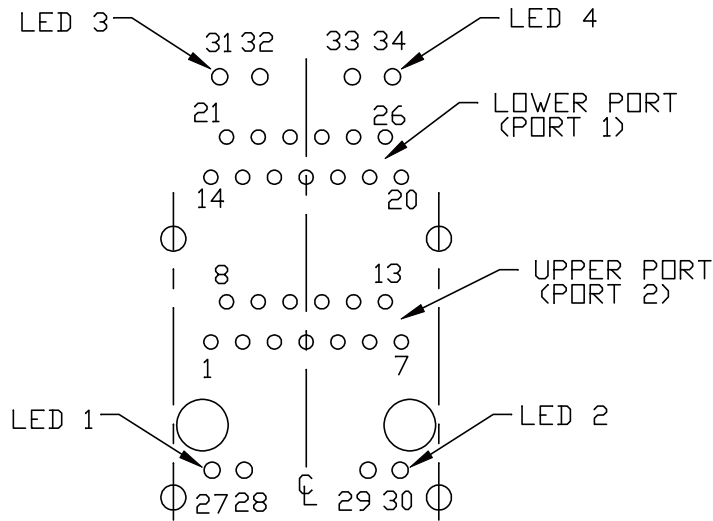


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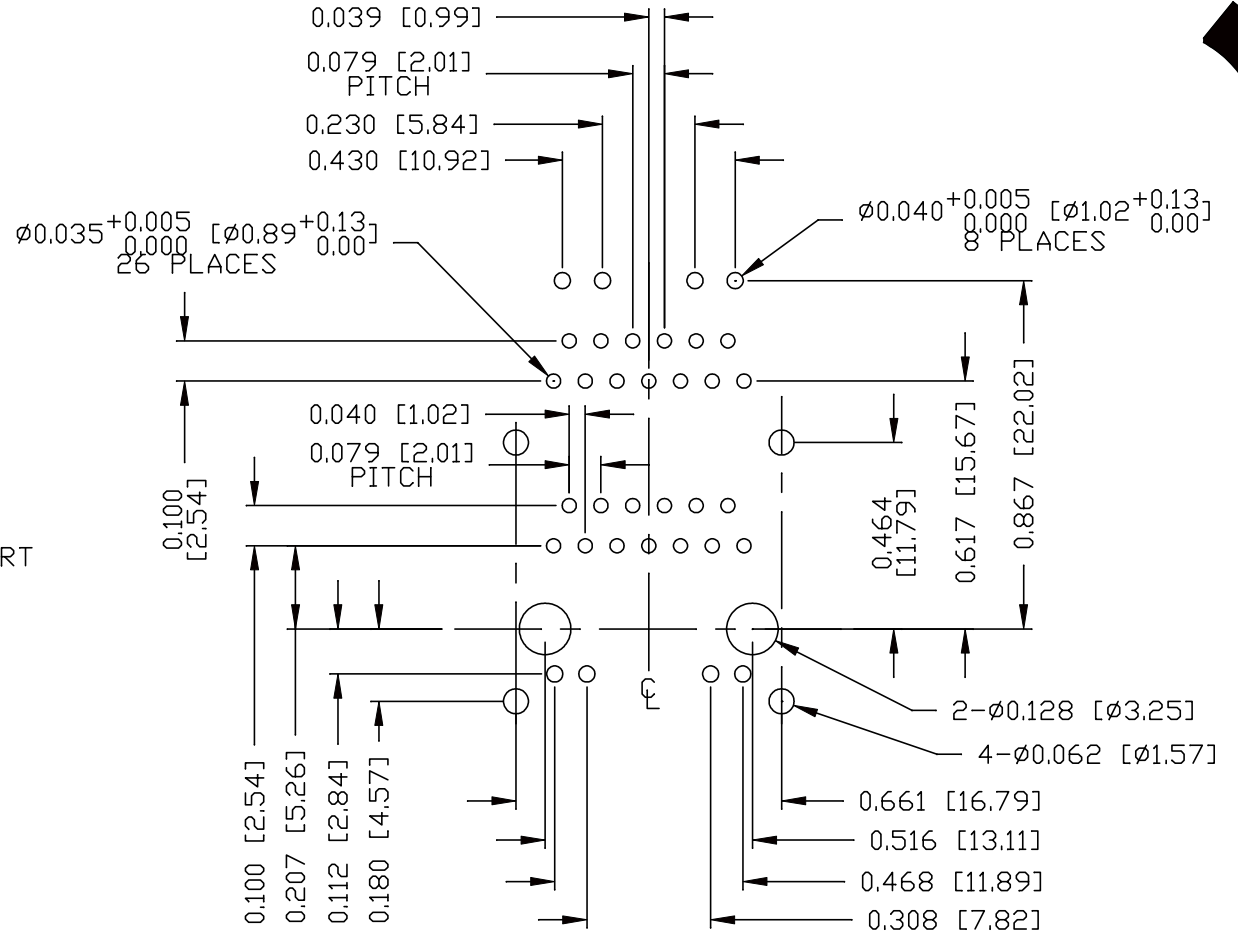
RoHS



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

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2X1 gigabit MagJack®
(with LED)
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PART NO. / DRAWING NO.
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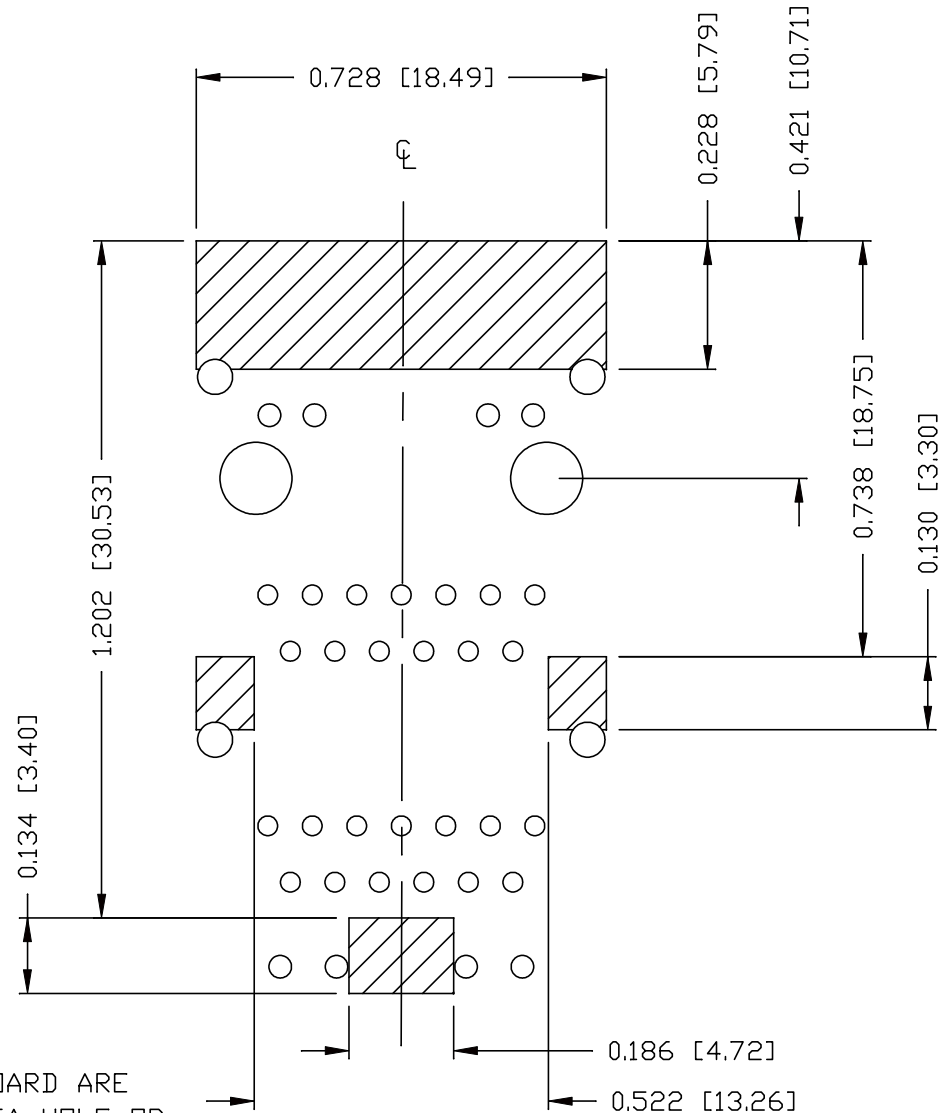
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.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.004	SIZE : A4

REV. : H	PAGE : 5
<p>bel MAGNETIC SOLUTIONS a bel group</p>	

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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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ANTON LIAO
DATE 2017-02-25
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LIU DONGJUN
DATE 2017-02-25

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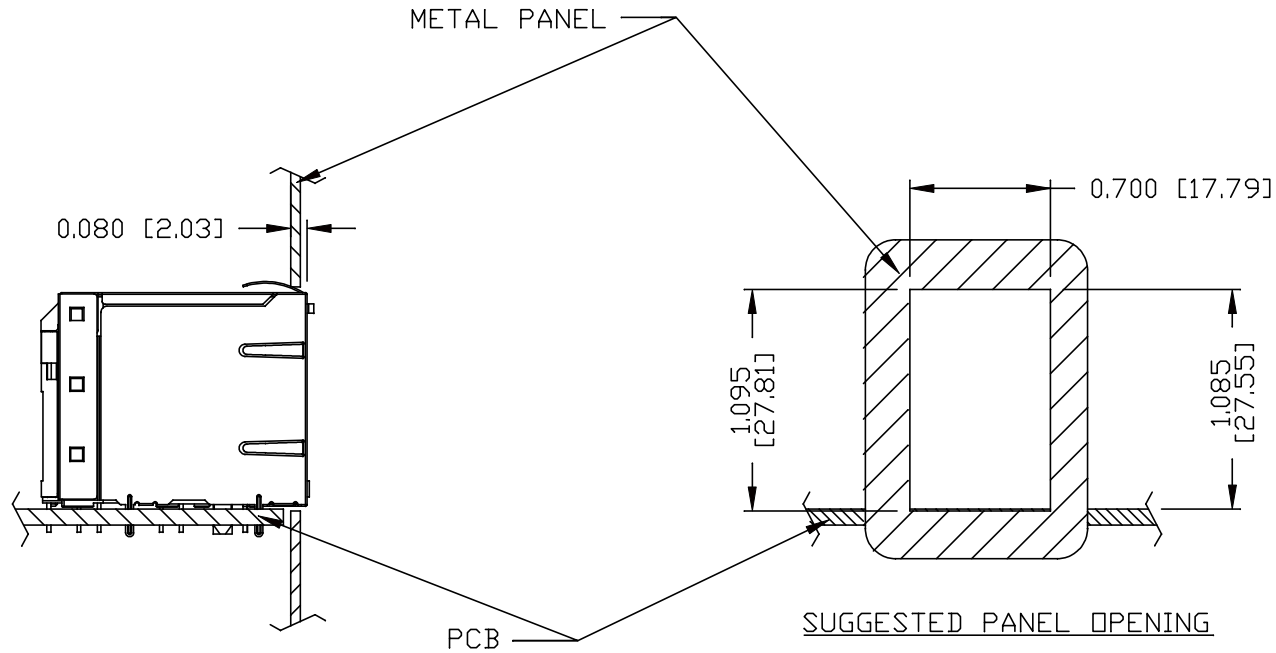
STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	±0.004
SIZE : A4	

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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 FILE NAME 0845-2R1T-E4_H.DWG	STANDARD DIM. [] METRIC DIM. TOL. IN INCH AS REF.	
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			.XX	SCALE : N/A
DRAWN BY LIU DONGJUN DATE 2017-02-25			.XXX	±0.004
			SIZE : A4	



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