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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

URNS RATIO

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

OC L @ 100kHz,100mVRMS

8mA DC BIAS

INS. LOSS

100KHz TO 100MHz

RET. LOSS (MIN)

1MHz-30MHz

30MHz-60MHz

60MHz-80MHz

80MHz-100MHz

CM TO CM REJ

100kHz - 100MHz

CROSS TALK

1MHz - 60MHz

60MHz - 100MHz

HIPOT (Isolation Voltage):

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

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.)

DC RESISTANCE

(21-15)=(16-23)=(24-18)=(19-26)

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

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.

OPERATING TEMPERATURE: 0°C TO +70°C.

2X1 gigabit MagJack®

(WITH LED)

PATENTED

PART NO. / DRAWING NO.

0845-2R1T-E4

STANDARD DIM. TOL. IN INCH

.X

.XX

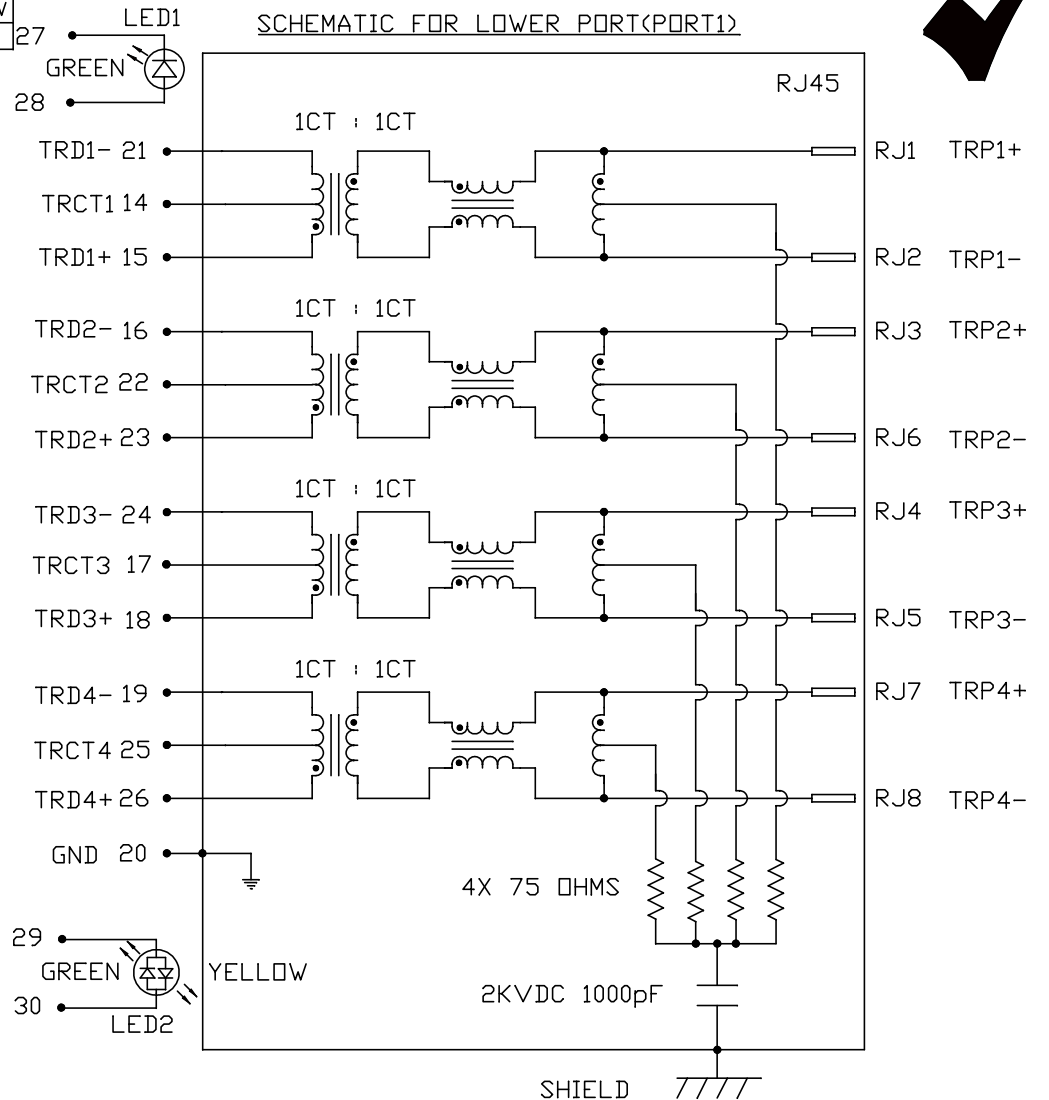
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[] METRIC DIM. AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4



REV. : H PAGE : 2

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



DC002(2)120214

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Please read our datasheet & drawing disclaimer [here](#).

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ELECTRICAL CHARACTERISTICS @ 25°C

TRANS 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.

OPERATING TEMPERATURE: 0°C TO +70°C.

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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. :

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PAGE :

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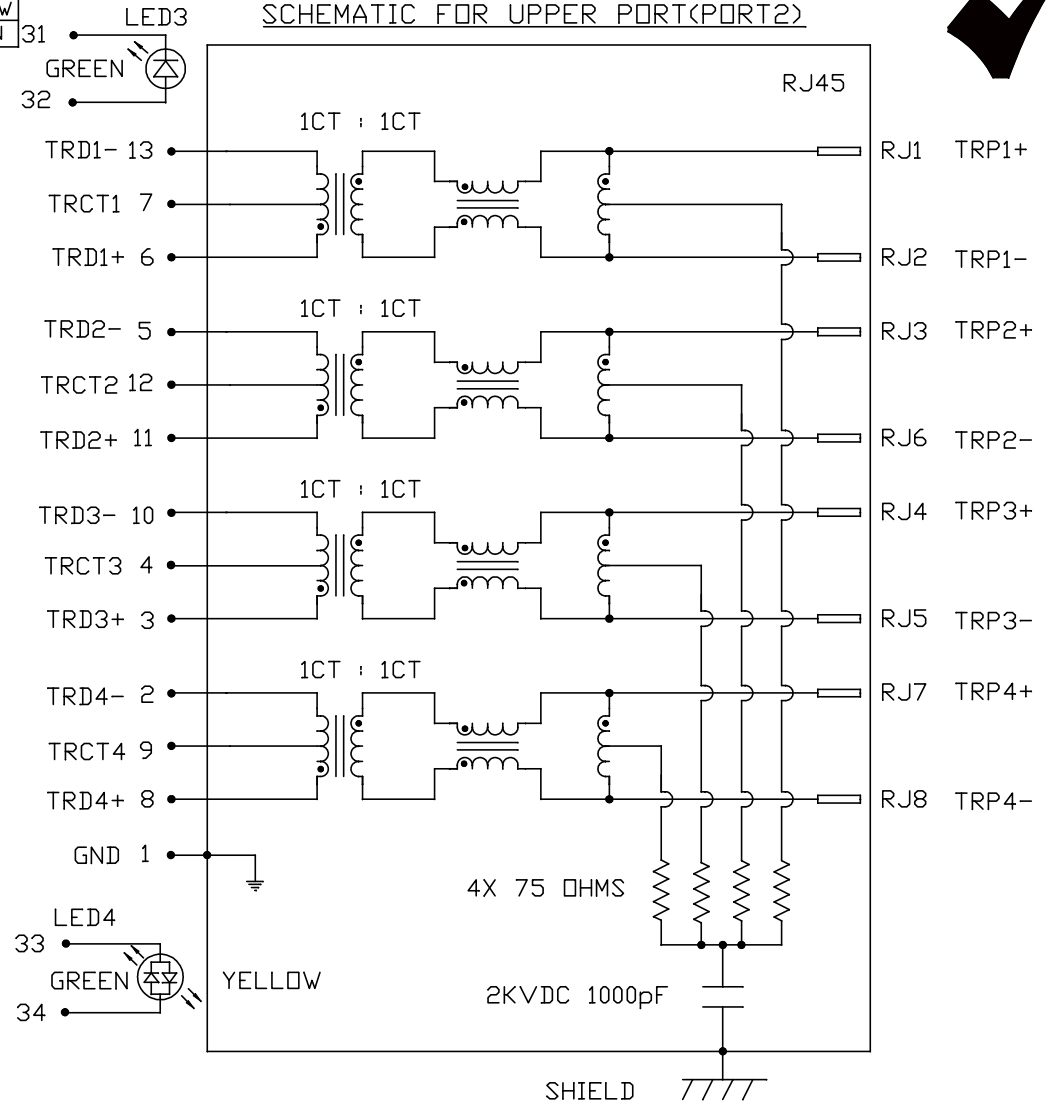


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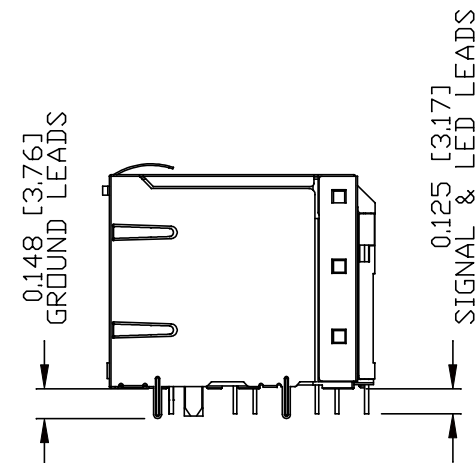
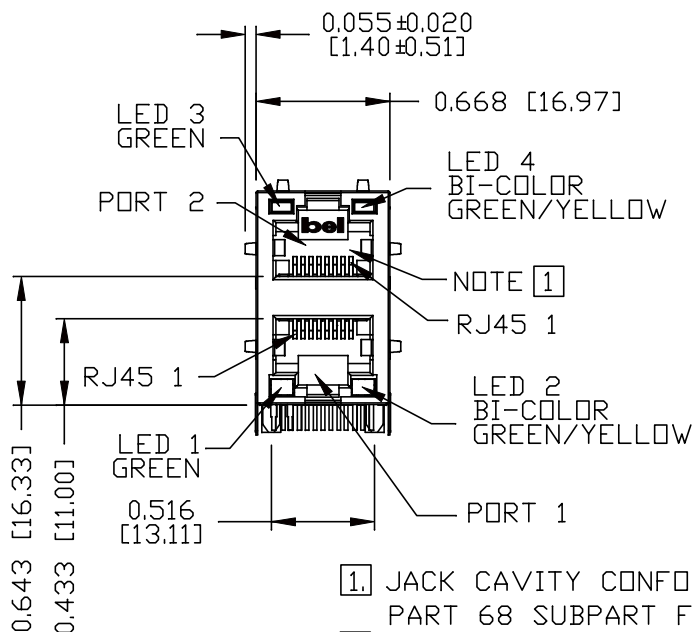
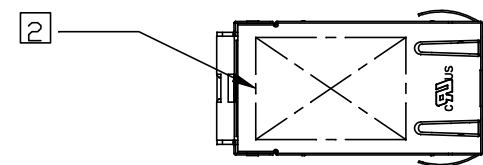
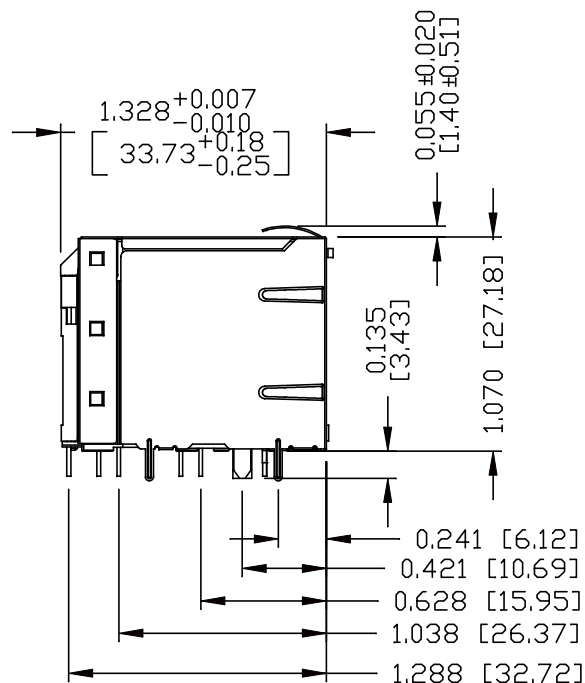


SCHEMATIC FOR UPPER PORT(PORT2)



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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)

- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.
- THE PRODUCT IS RoHS COMPLIANCE.
- THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 6,840,817
- THE PRODUCT IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX. AND 10 SECONDS MAX..

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



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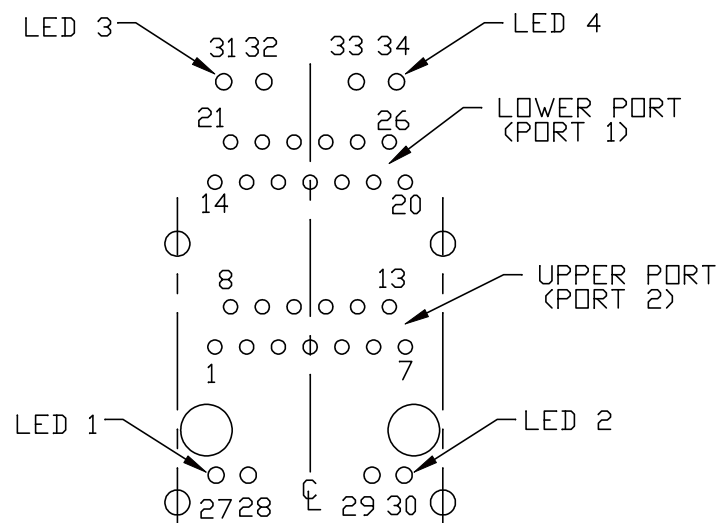
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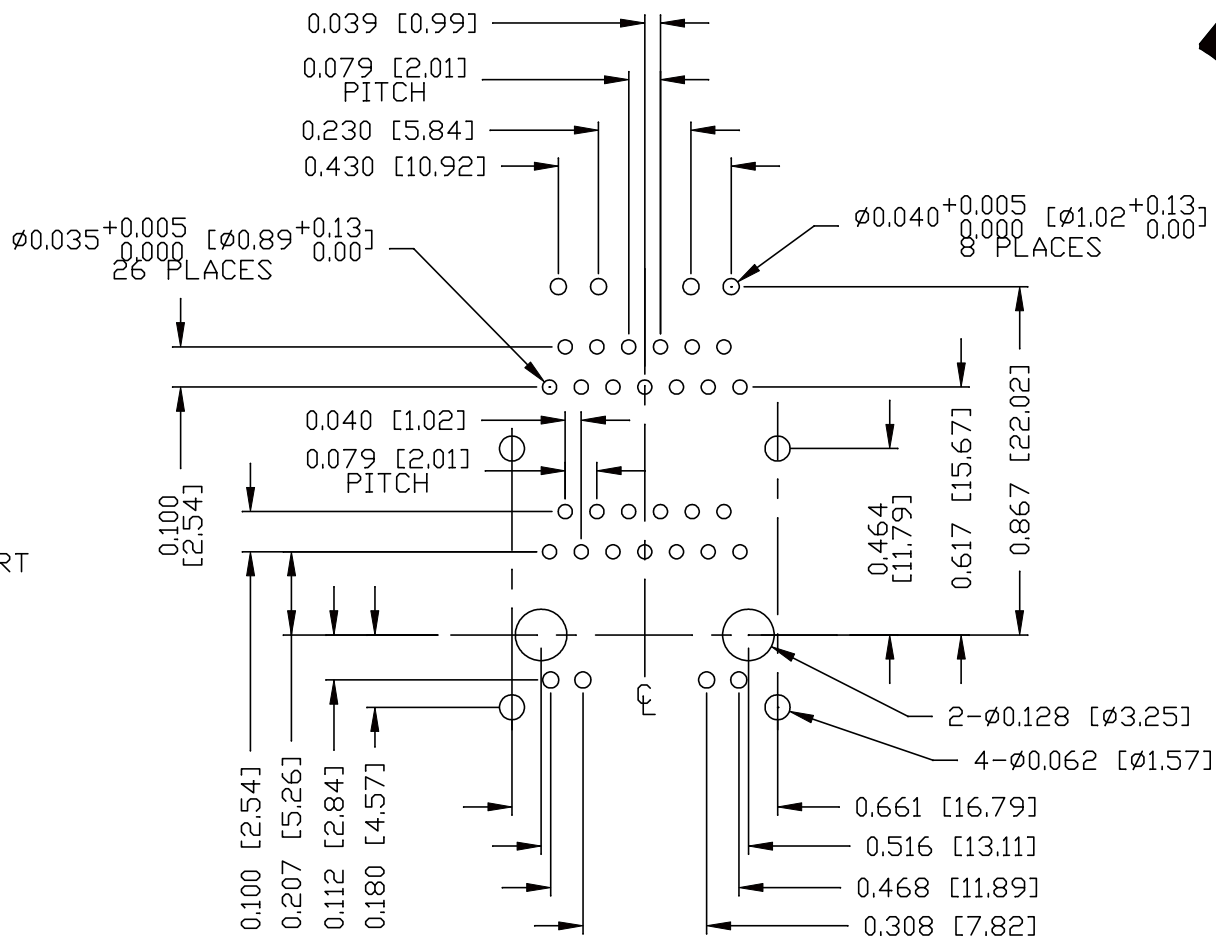
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LED CONFIGURATION



PIN-OUT INFORMATION (COMPONENT SIDE VIEW)



SUGGESTED FOOTPRINT (COMPONENT SIDE VIEW)

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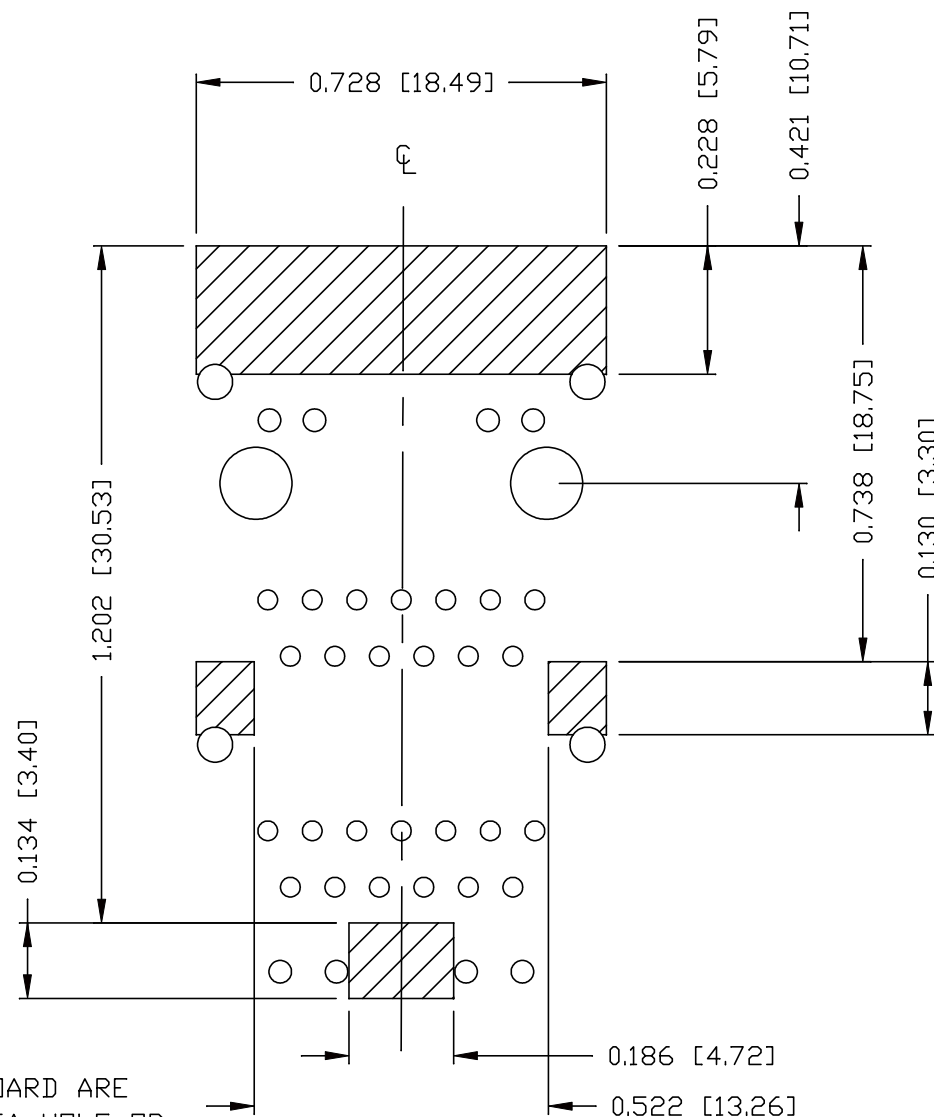
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NOTES

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

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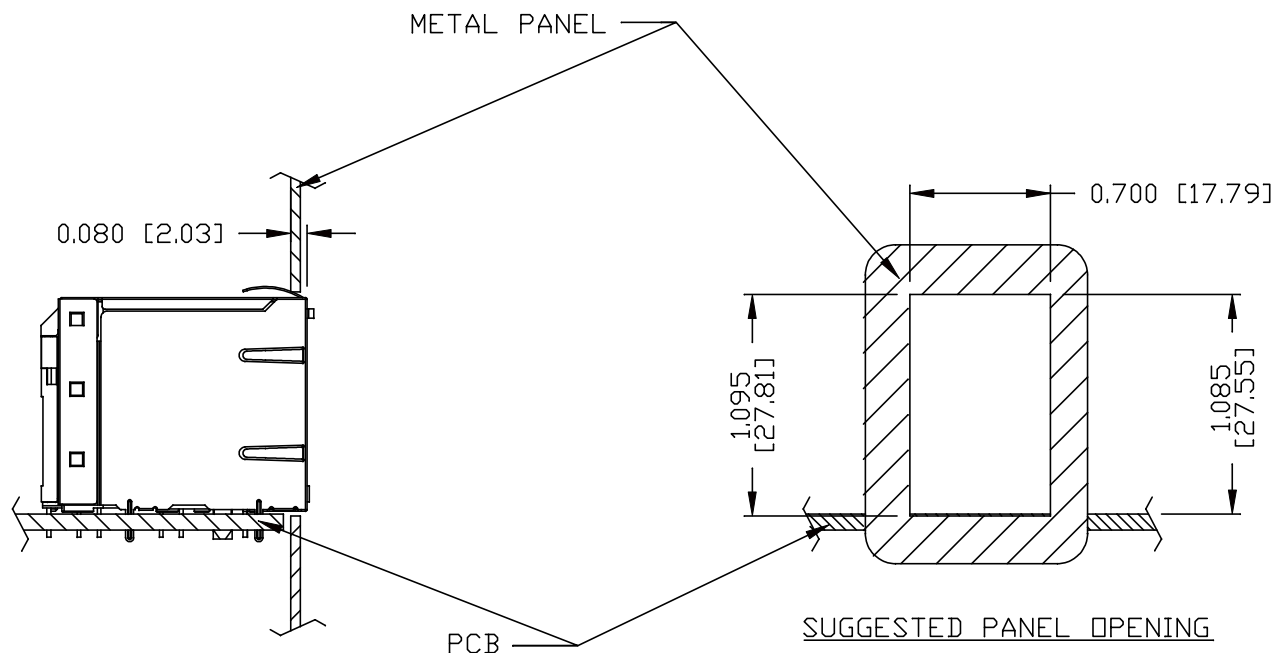
FILE NAME
0845-2R1T-E4_H.DWG

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

.X
.XX
.XXX
±0.004
UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : H PAGE : 6





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)

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