

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

LED 2 & 4 POLARITY			LED 1 & 3 POLARITY		
PIN 7	PIN 8	COLOR	PIN 9	PIN 10	COLOR
-	+	YELLOW	-	+	YELLOW
+	-	GREEN	+	-	GREEN

PRELIMINARY

RoHS  
2002/95/EC



SCHEMATIC

RJ45

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
OCL @ 100kHz/100mVRMS	
8mA DC BIAS (0°C - 70°C)	
350µH MIN.	

INS. LOSS

0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.5 dB MAX
65MHz TO 100MHz	-1.0 dB MAX

RET. LOSS (MIN) @ 100ΩHMS ±15%

0.5MHz-40MHz	-18 dB
40MHz-80MHz	-12+20LOG(f/80MHz) dB

CM TO CM REJ

100kHz - 100MHz	-30 dB MIN
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CM TO DM REJ

100kHz - 100MHz	-35 dB MIN
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CROSS TALK (TX - RX)

100kHz - 100MHz	-35 dB MIN
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OPERATING TEMPERATURE:

-40° TO +85°C
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HIPOT (Isolation Voltage):

1500 Vrms
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100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS

LED 2 & 4

VF (FORWARD VOLTAGE)	IF=20mA YELLOW 2.1V TYP.
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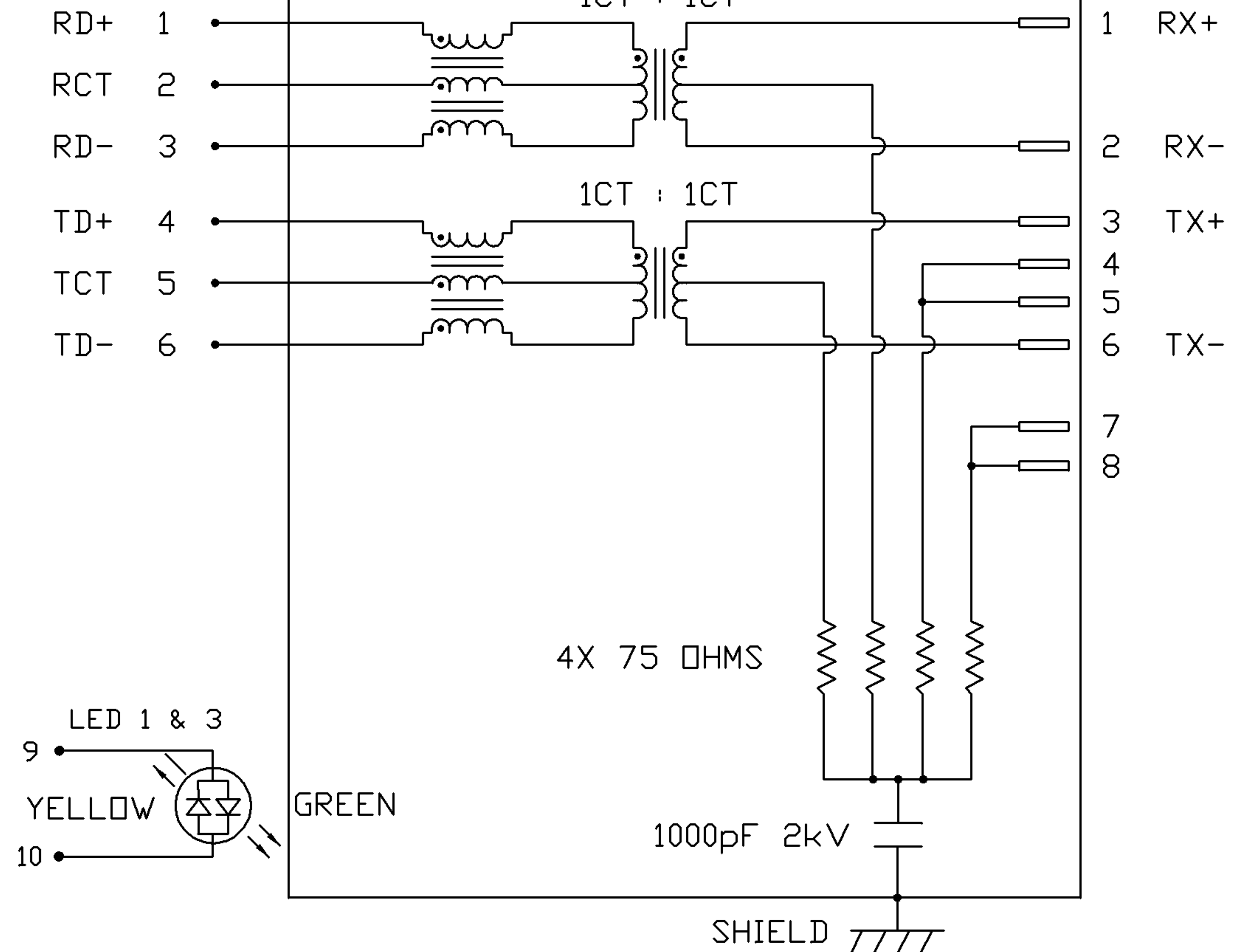
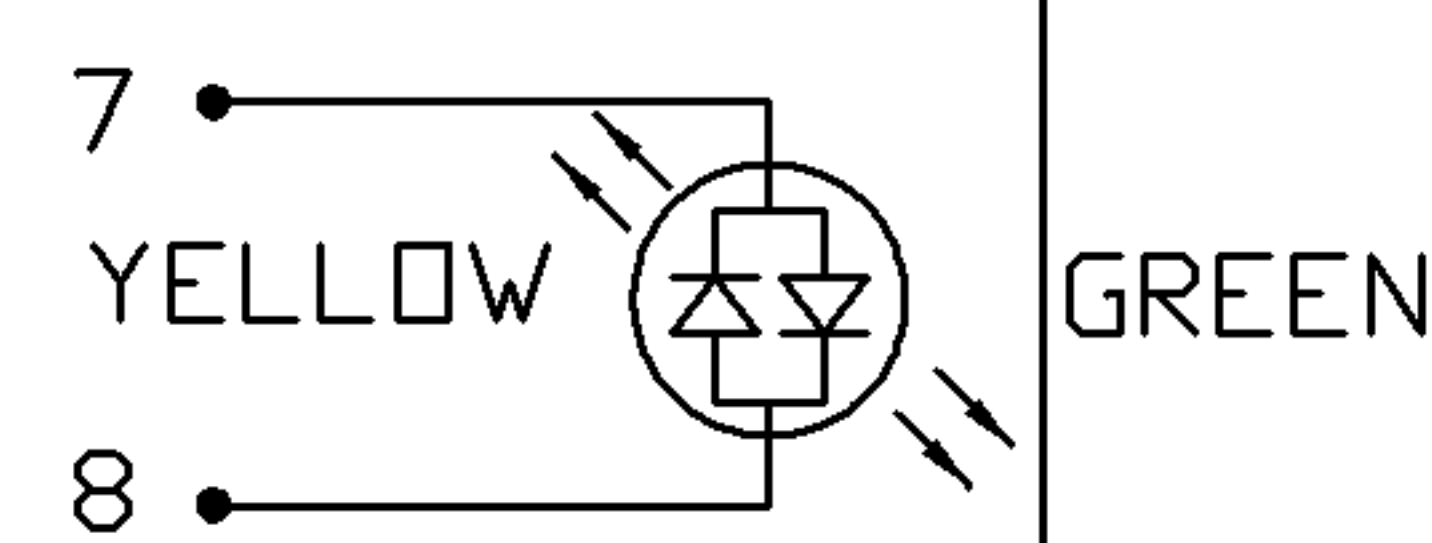
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW 590nm TYP.
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LED 1 & 3

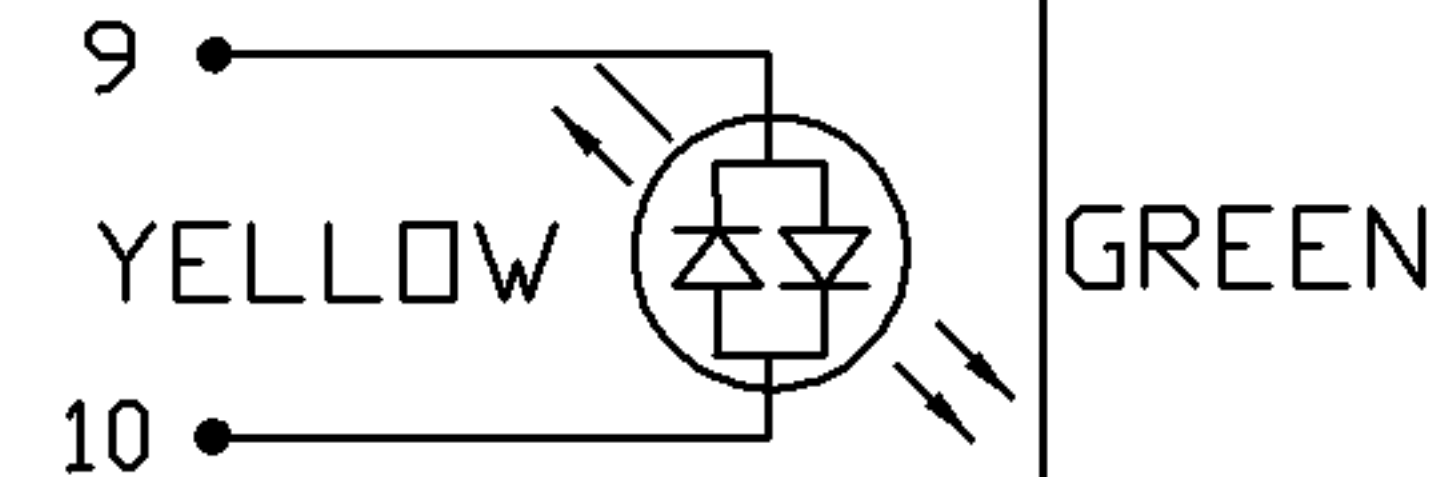
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
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λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.
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LED 2 & 4



LED 1 & 3



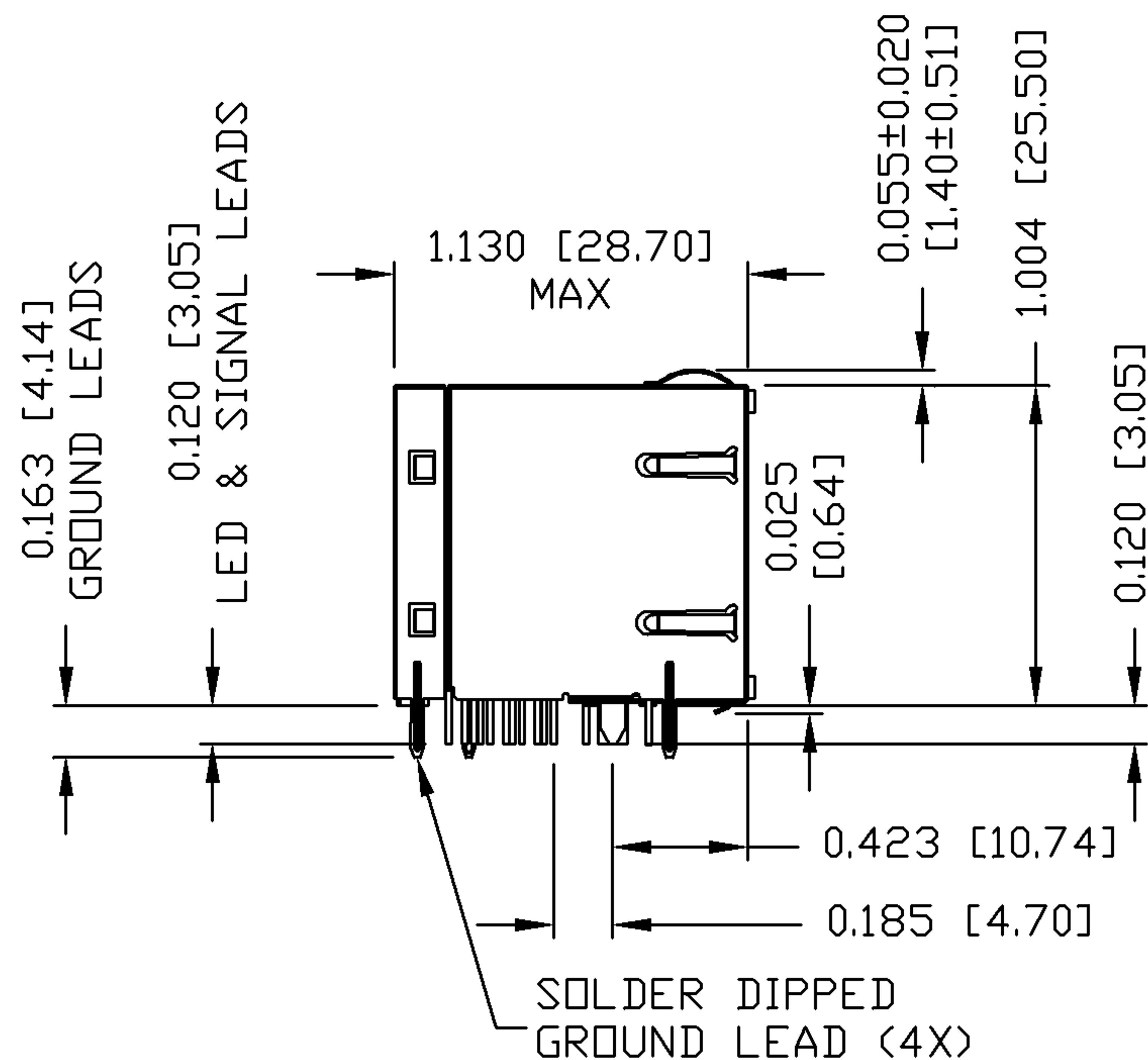
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
CHOW WANCHUNG	11-28-08	2X1 MagJack® FOR 10/100 WITH UPPER AND LOWER LED (EXTENDED TEMPERATURE)	0879-2C1R-BV	.X	UNIT : INCH [mm] REV. : PB
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
WEIDE LEE	11-28-08		0879-2C1R-BV_PB.DWG	.XXX	PAGE : 2



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PRELIMINARY

RoHS  
2002/95/EC



#### NOTES:

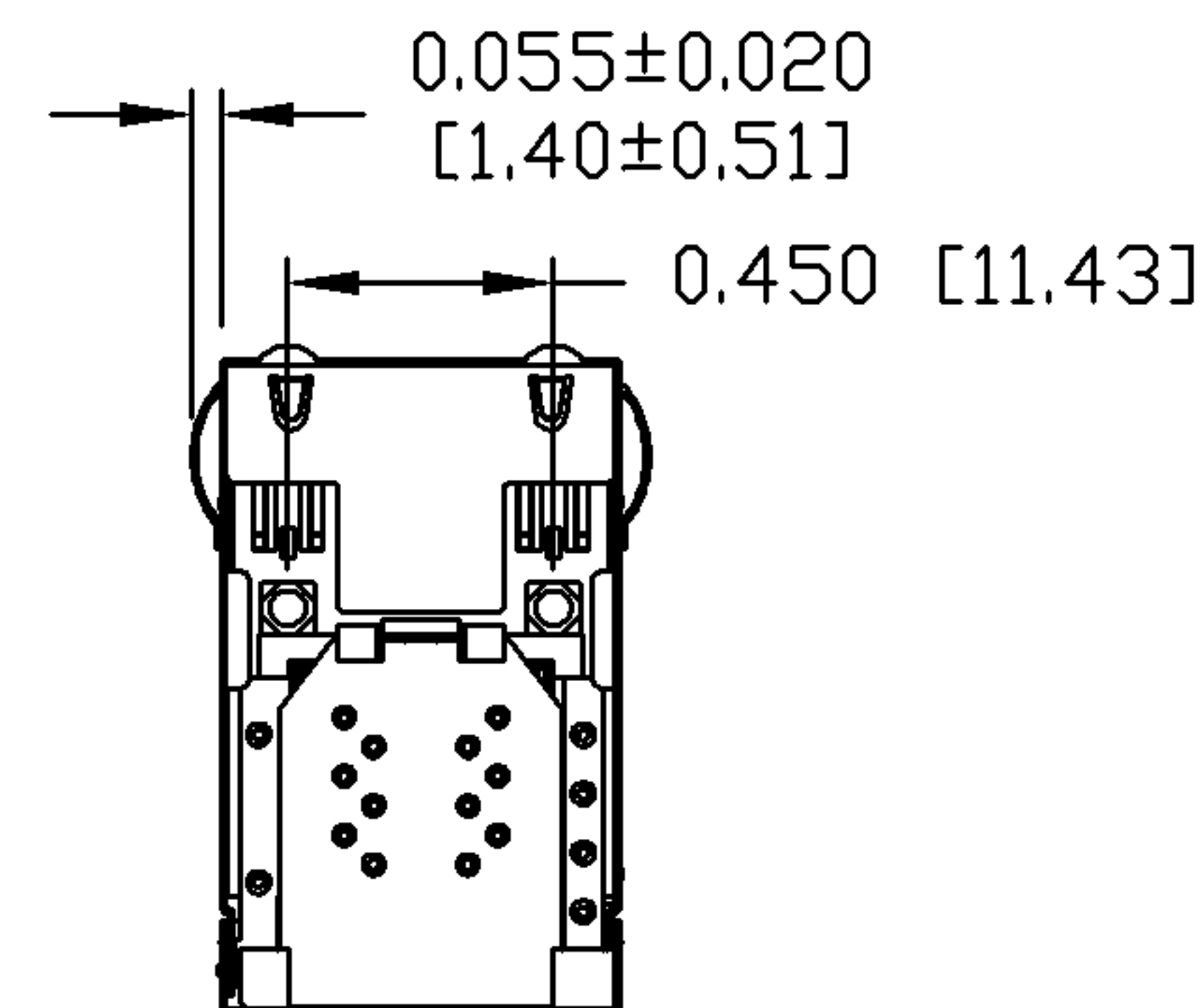
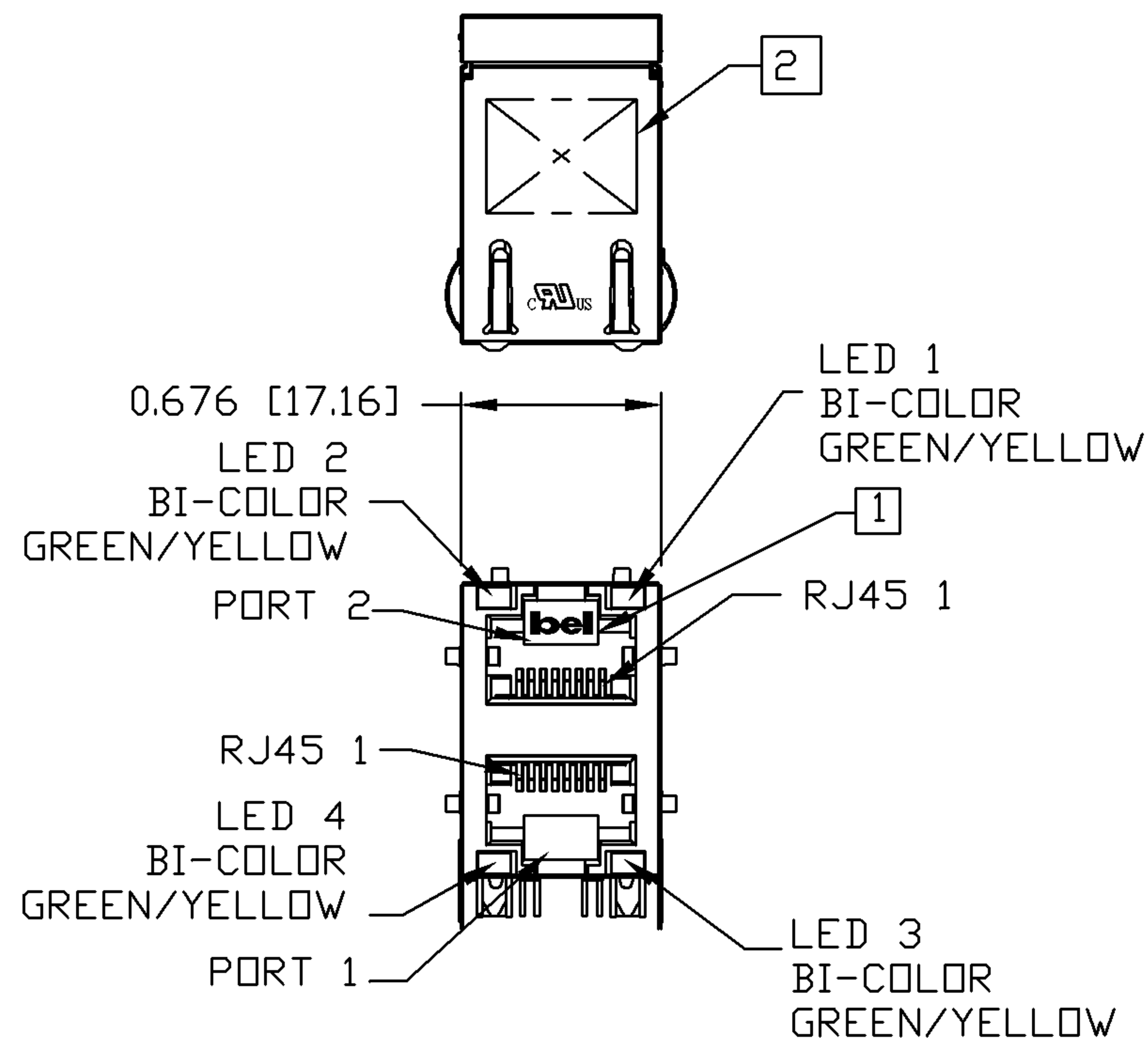
PLASTIC HOUSING: THERMOPLASTIC PBT  
FLAMMABILITY RATING UL 94V-0  
CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING  
OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.  
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.  
(ALL GROUND LEADS ARE SOLDER DIPPED)

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

3. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

cUL US UL RECOGNIZED - FILE #E196366 AND E169987.

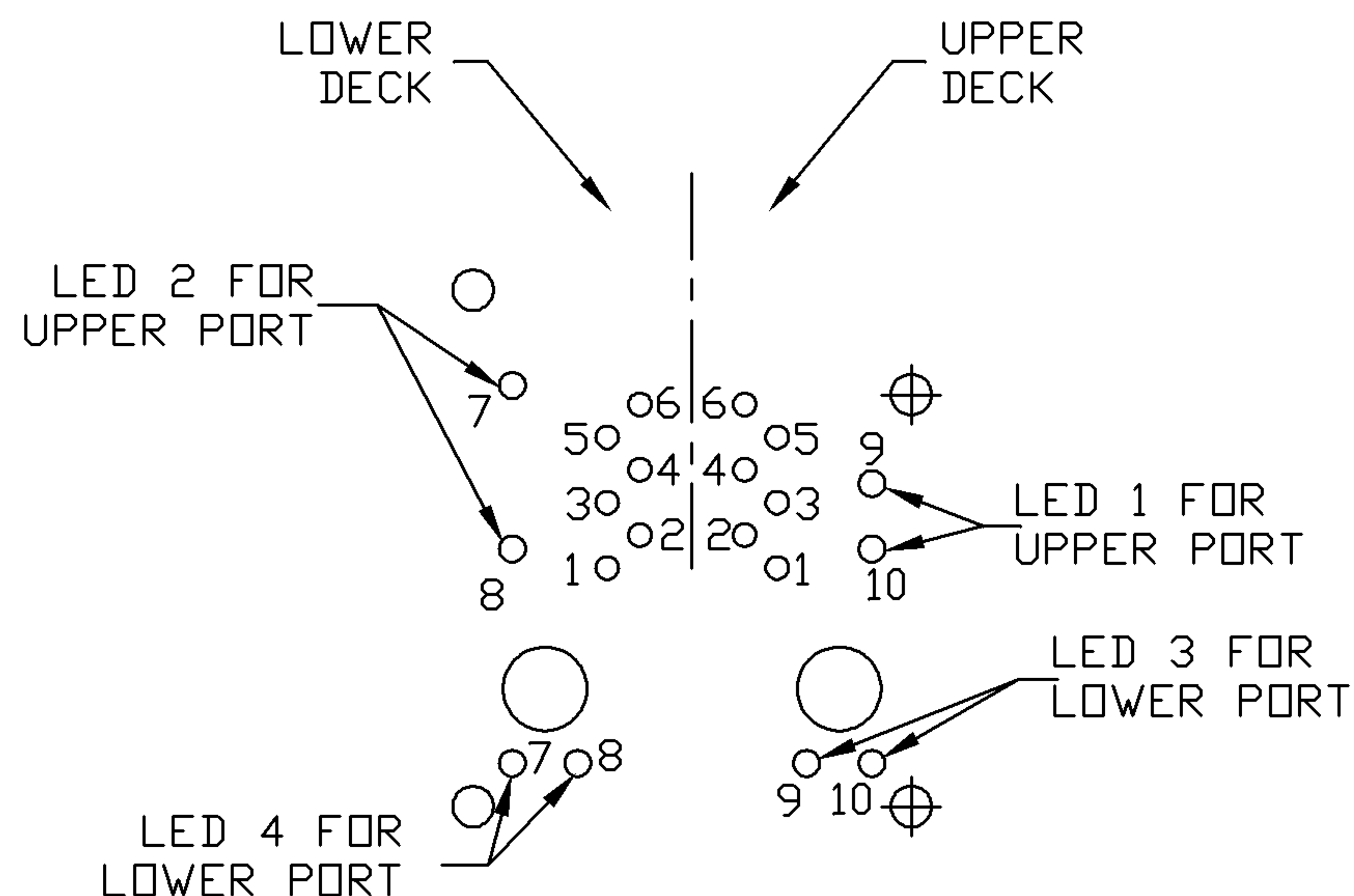


ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
ANTON LIAO	11-28-08	2X1 MagJack® FOR 10/100 WITH UPPER AND LOWER LED (EXTENDED TEMPERATURE)	0879-2C1R-BV	.X	UNIT : INCH [mm] REV. : PB
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
DAVID CAO	11-28-08		0879-2C1R-BV_PB.DWG	.XXX ±0.010	PAGE : 3

**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET

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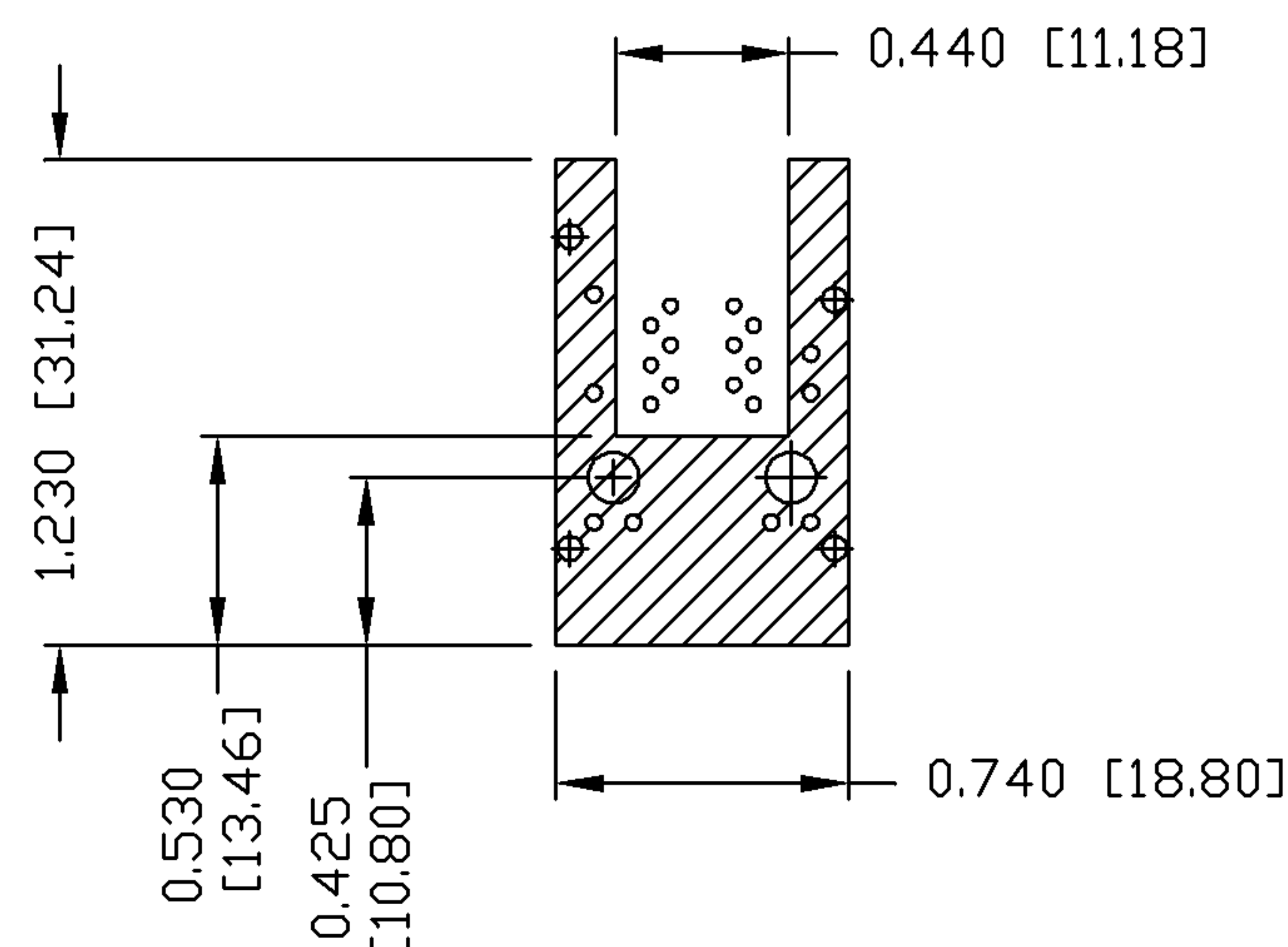
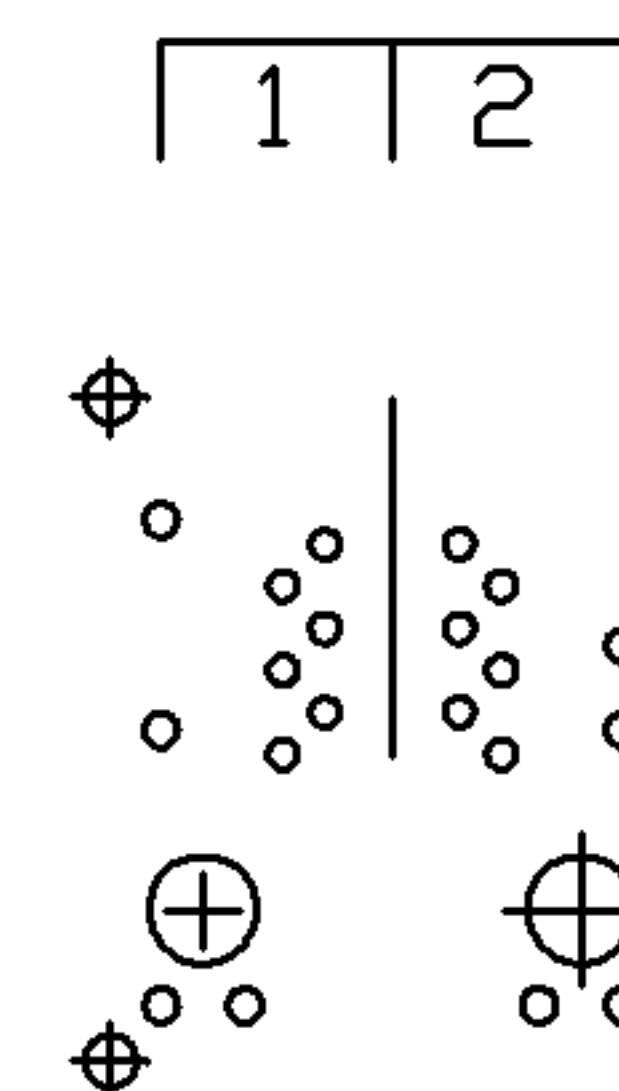
PRELIMINARY



PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)

6	TD-
5	TCT
4	TD+
3	RD-
2	RCT
1	RD+

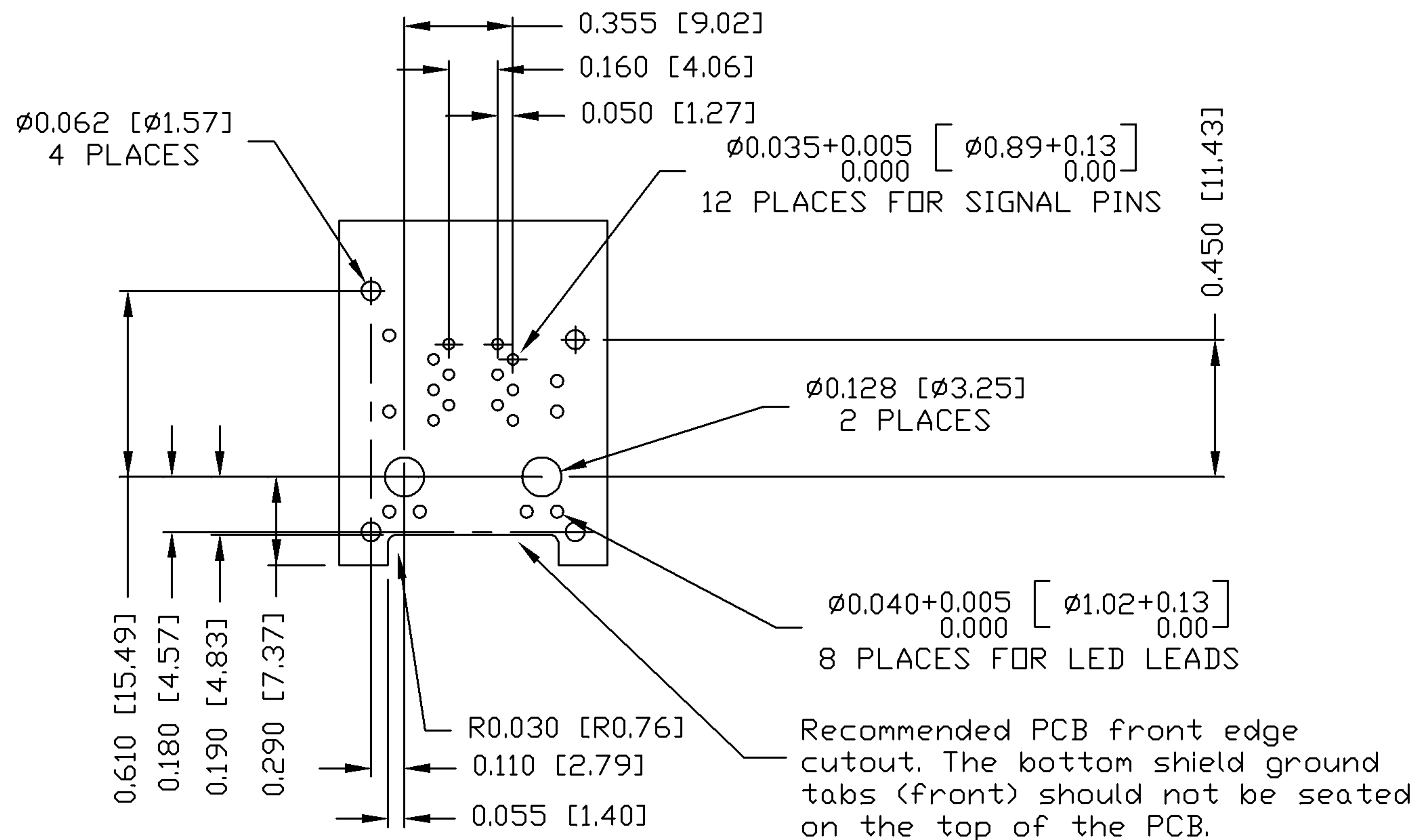
PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)



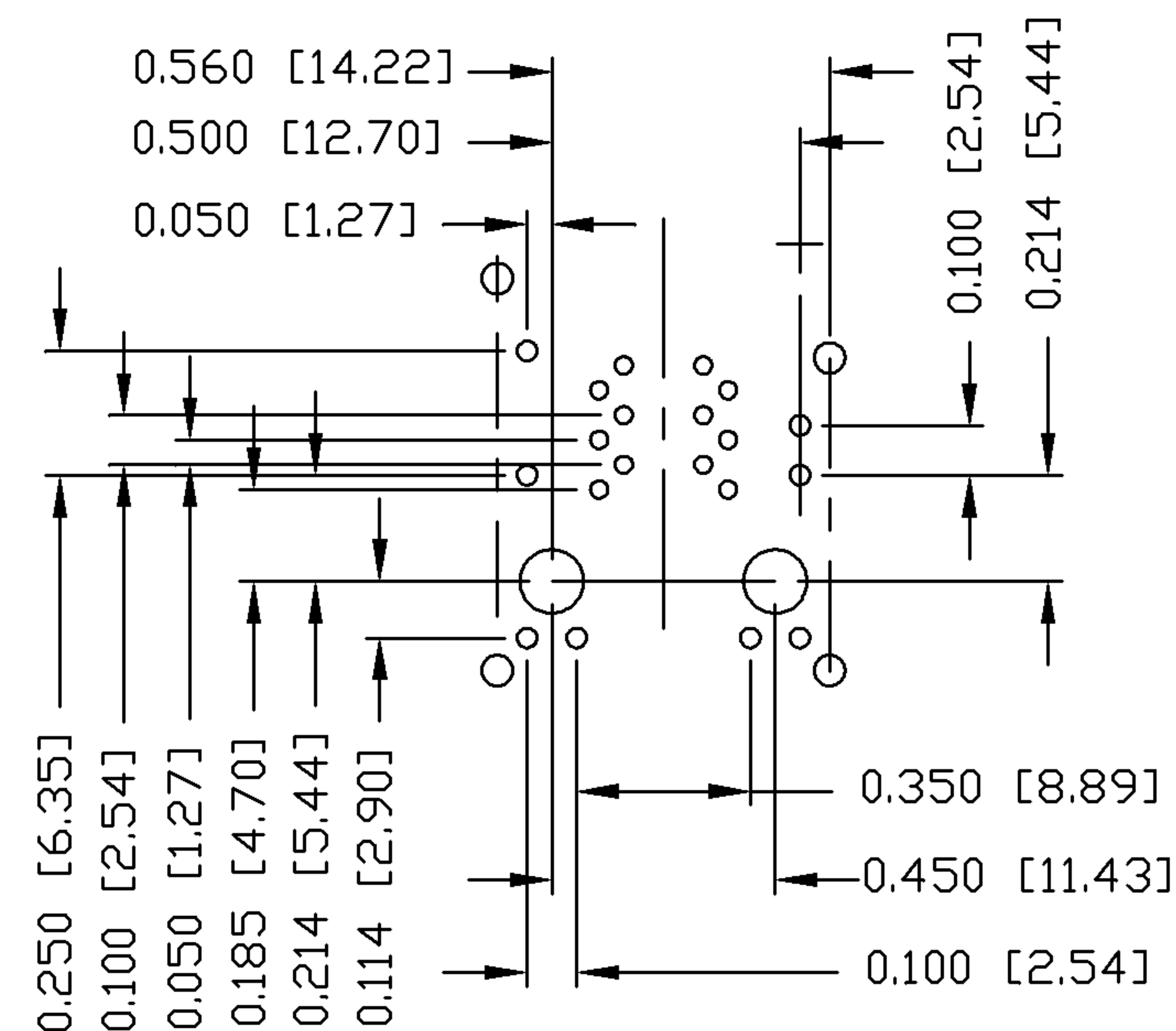
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

ORIGINATED BY ANTON LIAO	DATE 11-28-08	TITLE 2X1 MagJack® FOR 10/100 WITH UPPER AND LOWER LED (EXTENDED TEMPERATURE)	PART NO. / DRAWING NO. 0879-2C1R-BV	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY DAVID CAO	DATE 11-28-08		FILE NAME 0879-2C1R-BV_P.B.DWG	.X		UNIT : INCH [mm]	REV. : PB	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.004		PAGE : 4	

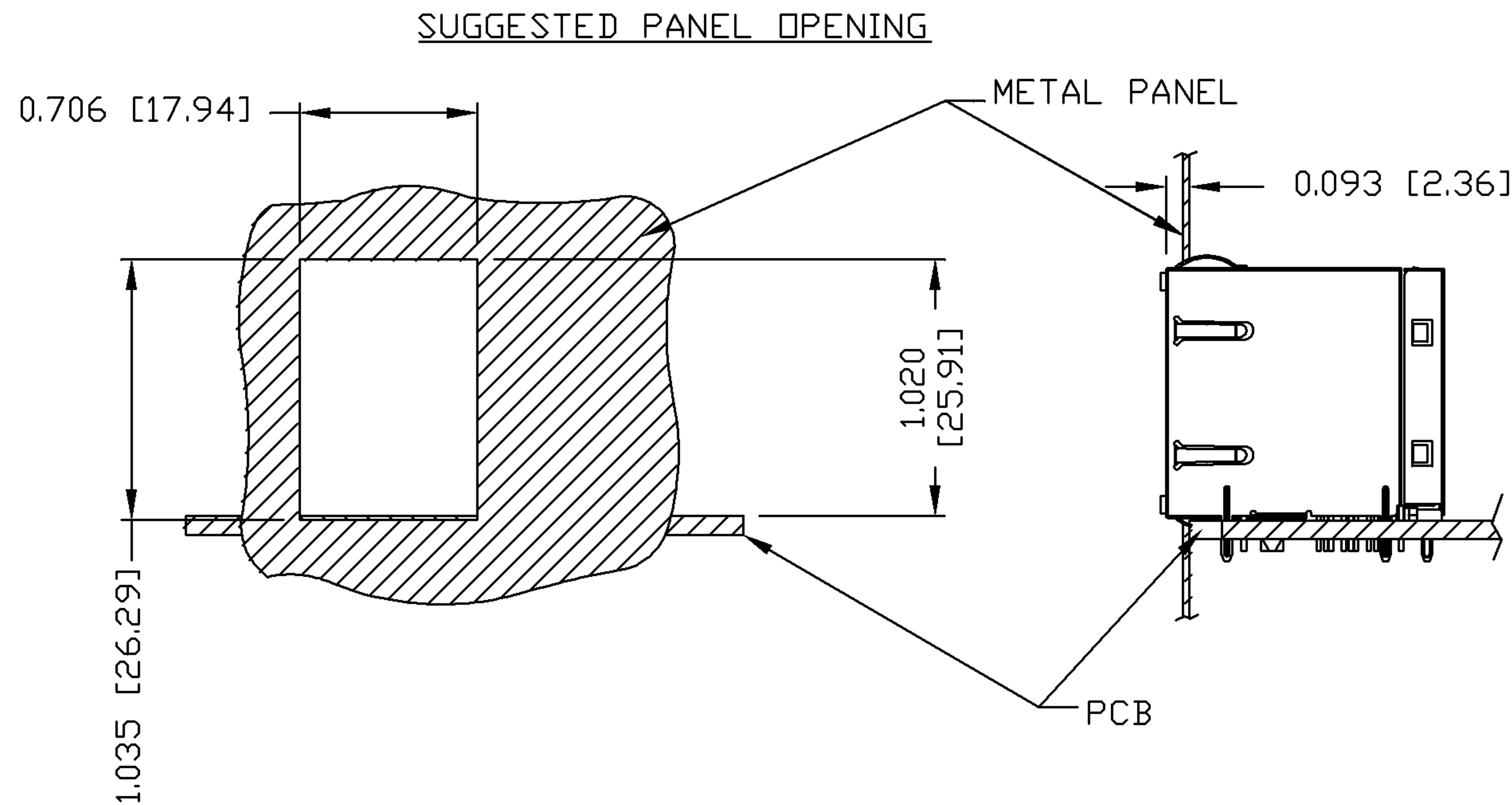




SUGGESTED FOOTPRINT  
(COMPONENT SIDE VIEW)



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DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
DAVID CAO	11-28-08		0879-2C1R-BV_PB.DWG	.XXX ±0.004	PAGE : 5



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-P8 (TOP)  
0200-9999-P9 (BOTTOM)

PACKING QUANTITY : 40 PCS FINISHED GOODS PER TRAY  
7 TRAYS (280 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX  
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
ANTON LIAO	11-28-08	2X1 MagJack® FOR 10/100 WITH UPPER AND LOWER LED (EXTENDED TEMPERATURE)	0879-2C1R-BV	.X	UNIT : INCH [mm]	REV. : PB
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	SIZE : A4
DAVID CAO	11-28-08		0879-2C1R-BV_PB.DWG	.XXX ±0.004		PAGE : 6

