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RoHS
2002/95/EC



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

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

DCL @ 100kHz,100mVRMS

8mA DC BIAS	350 μH MIN.
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INS. LOSS

100KHz TO 100MHZ	-1.1 dB MAX
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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
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CROSS TALK

1MHz - 60MHz	-35 dB TYP
60MHz - 100MHz	-25 dB TYP

HIPDT (Isolation Voltage):

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

LEAKAGE INDUCTANCE

PRIMARY W/ SECONDARY SHORTED	0.3μH Max. @ 1MHz
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INTERWINDING CAPACITANCE

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

OPERATING TEMPERATURE:

LED 1 & LED 2	-40 TO +85°C
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VF (FORWARD VOLTAGE)

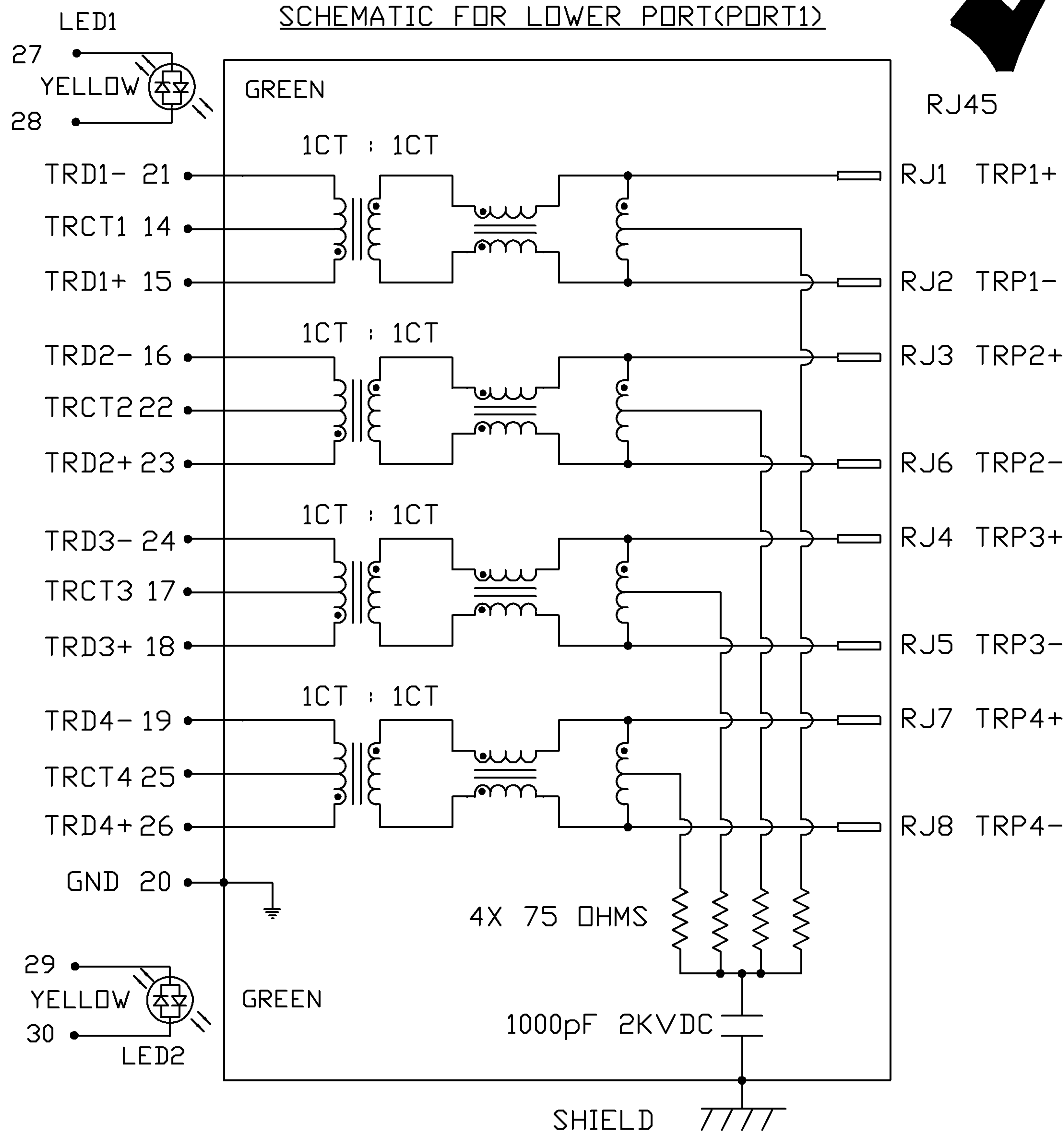
IF=20mA	GREEN	2.2V TYP.
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λD (DOMINANT WAVELENGTH)

IF=20mA	YELLOW	2.1V TYP.
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IF=20mA	GREEN	565nm TYP.
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IF=20mA	YELLOW	590nm TYP.
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ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
CHOW WANGCHUNG	11-06-08	2X1 gigabit MagJack®	0845-2C1T-DY	TOL. IN INCH	UNIT : INCH [mm]
DRAWN BY	DATE	(Extended Temperature of -E4)	FILE NAME	.X	REV. : B
LI YONGFENG	11-06-08		0845-2C1T-DY_B.DWG	.XX	SCALE : N/A
				.XXX	SIZE : A4
					PAGE : 2



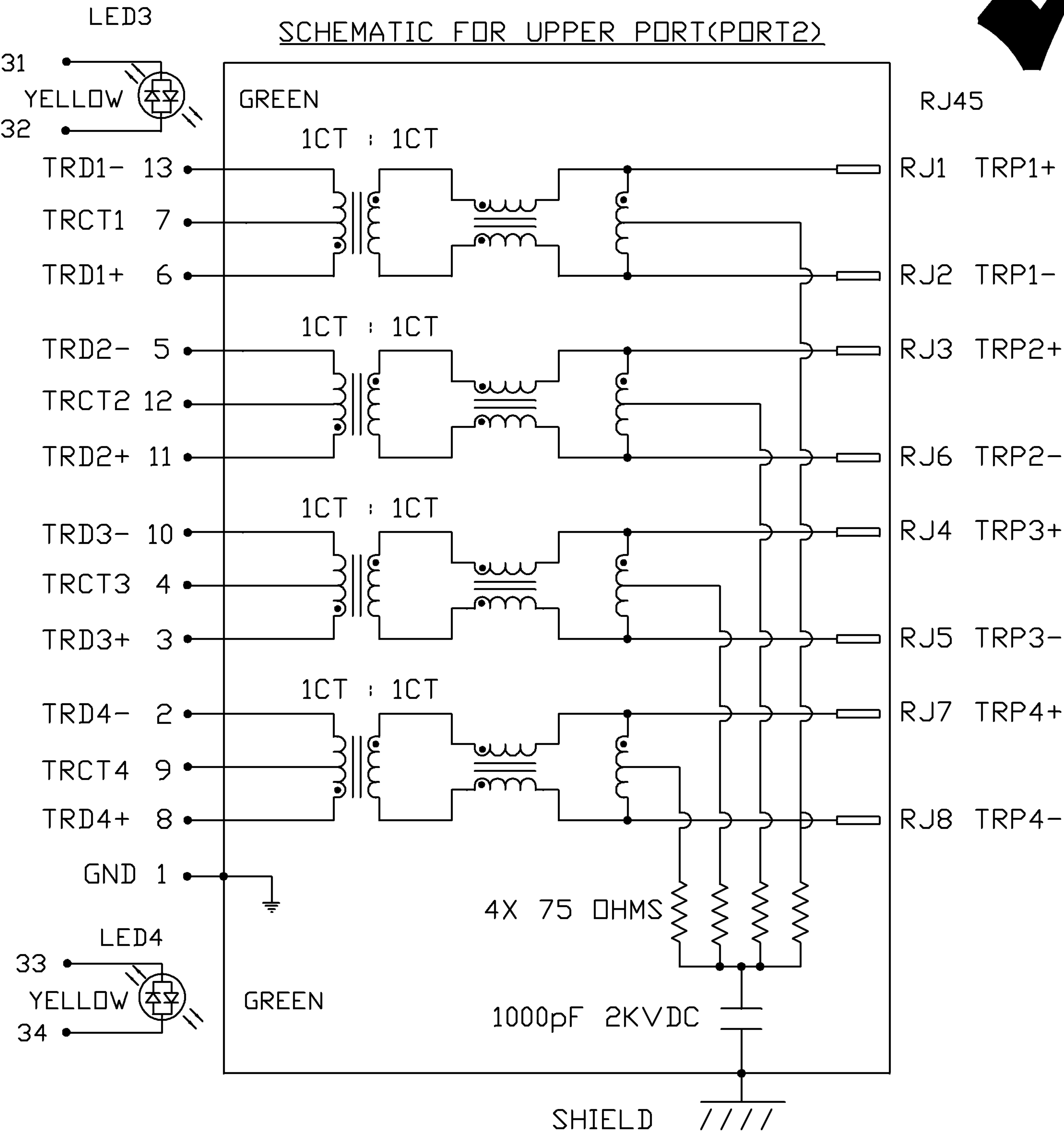
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LED3 POLARITY			LED4 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
+	-	GREEN	-	+	YELLOW
-	+	YELLOW	+	-	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

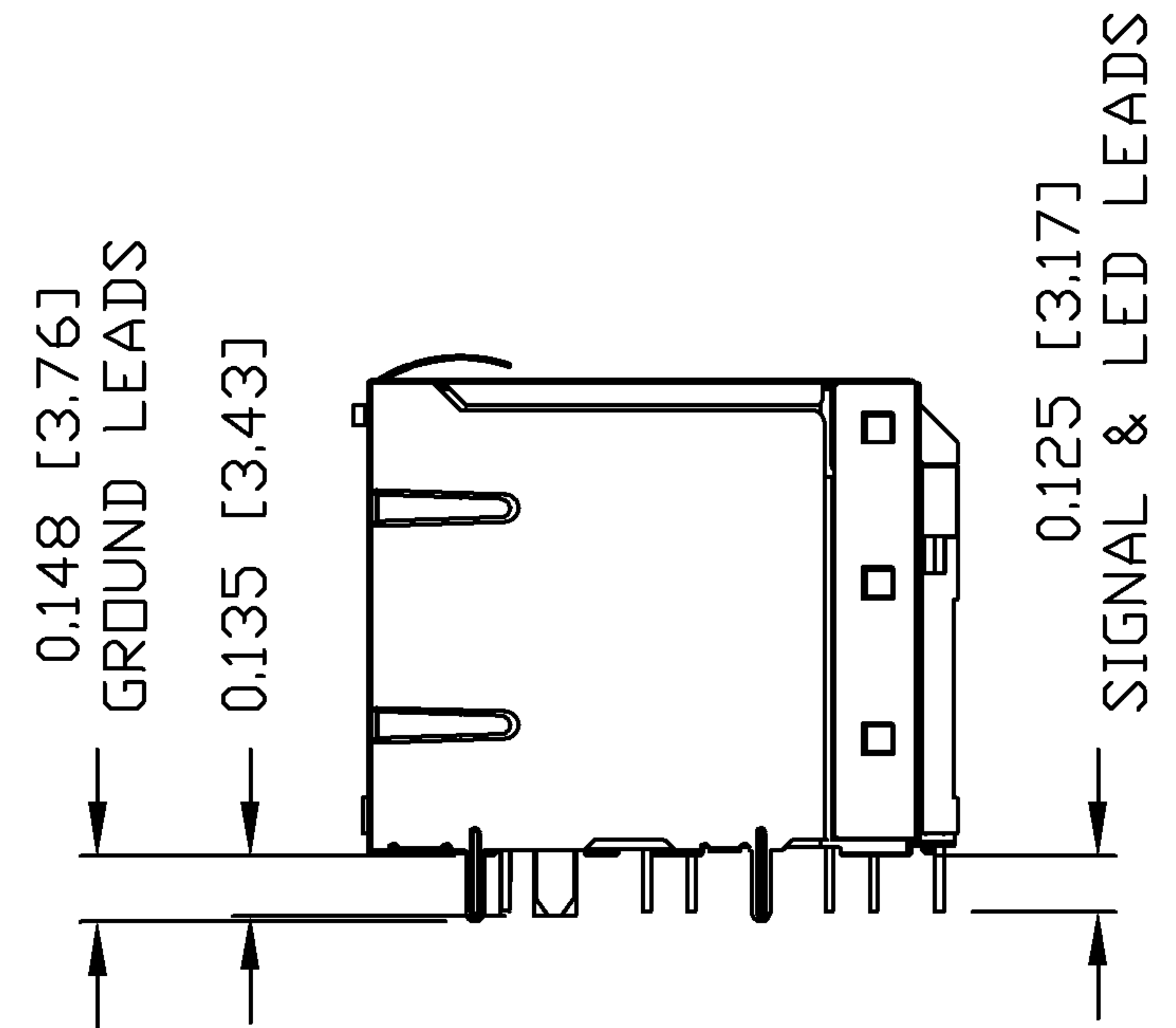
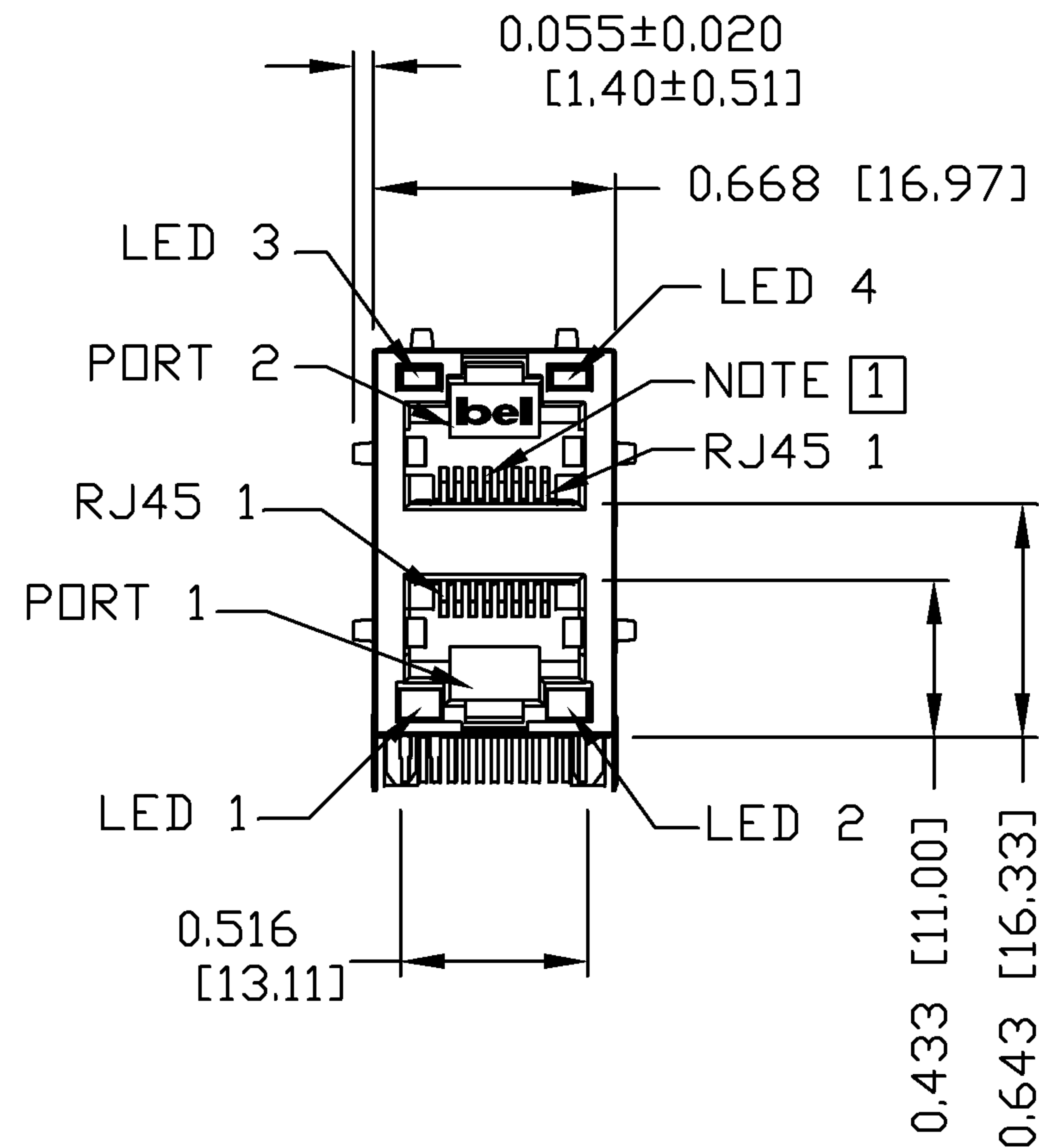
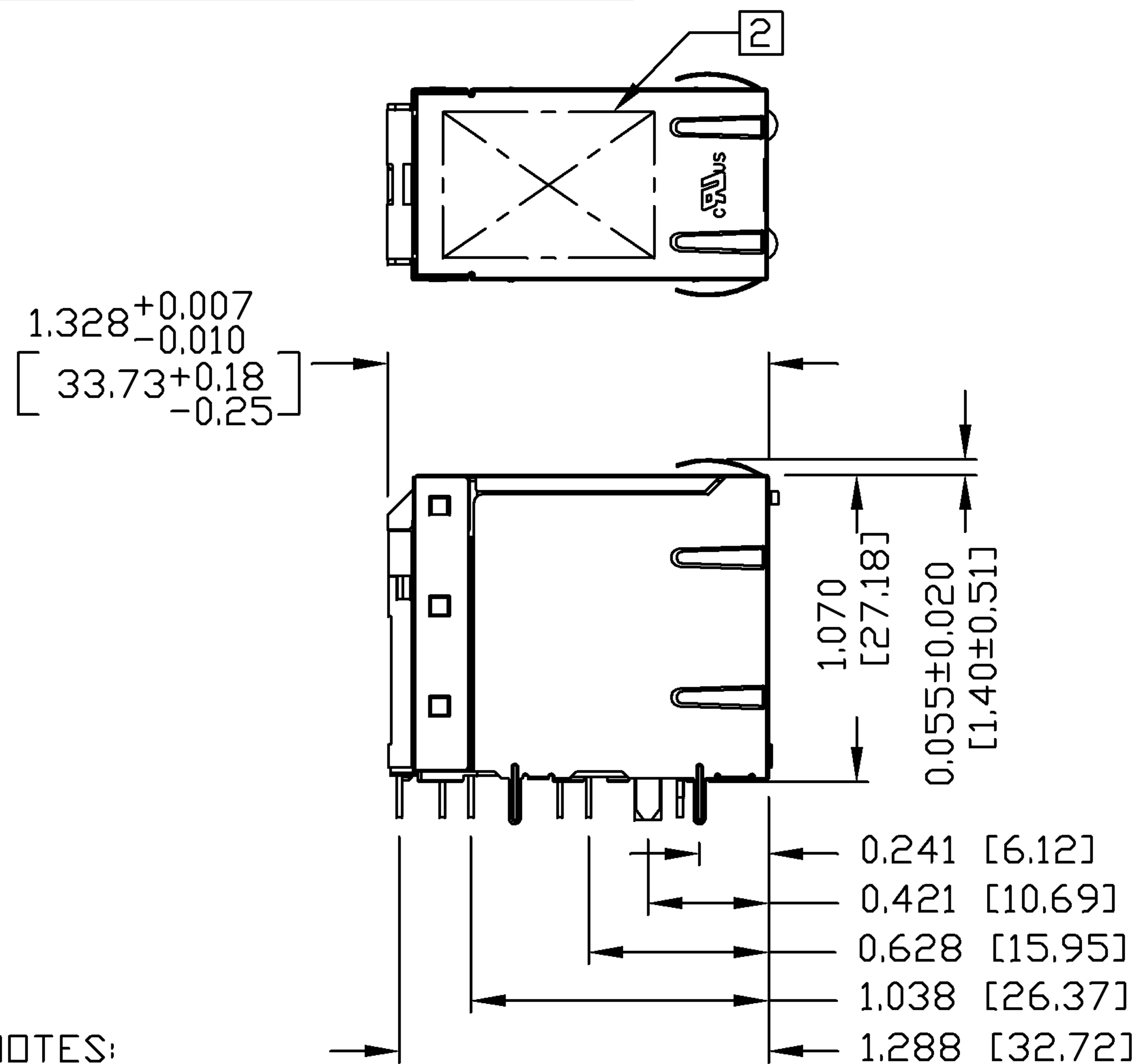
URNS RATIO	
TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%
QCL @ 100kHz,100mVRMS	
8mA DC BIAS	350 µH MIN.
INS. LOSS	
100KHz TO 100MHZ	-1.1 dB MAX
RET. LOSS (MIN)	
1MHZ-30MHZ	-18 dB
30MHZ-60MHZ	-16 dB
60MHZ-80MHZ	-14 dB
80MHZ-100MHZ	-12 dB
CM TO CM REJ	
100kHz - 100MHZ	-25 dB TYP
CROSS TALK	
1MHZ - 60MHZ	-35 dB TYP
60MHZ - 100MHZ	-25 dB TYP
HIPOT (Isolation Voltage):	1500 Vrms
100% OF PRODUCT TESTED TO COMPLY	
WITH IEEE 802.3 ISOLATION REQUIREMENTS	
LEAKAGE INDUCTANCE	
PRIMARY W/ SECONDARY SHORTED	0.3µH Max. @ 1MHz
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
OPERATING TEMPERATURE:	-40 TO +85°C
LED 3 & LED 4 (Super bright)	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	YELLOW 2.1V TYP.
	IF=20mA GREEN 565nm TYP.
	YELLOW 590nm TYP.



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET
CHOW WANGCHUNG	11-06-08	2X1 gigabit MagJack® (Extended Temperature of -E4)	0845-2C1T-DY	TOL. IN INCH	UNIT : INCH [mm]	
DRAWN BY	DATE		FILE NAME	.X	REV. : B	
LI YONGFENG	11-06-08		0845-2C1T-DY_B.DWG	.XX	SCALE : N/A	
				.XXX	SIZE : A4	
					PAGE : 3	

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RoHS
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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)

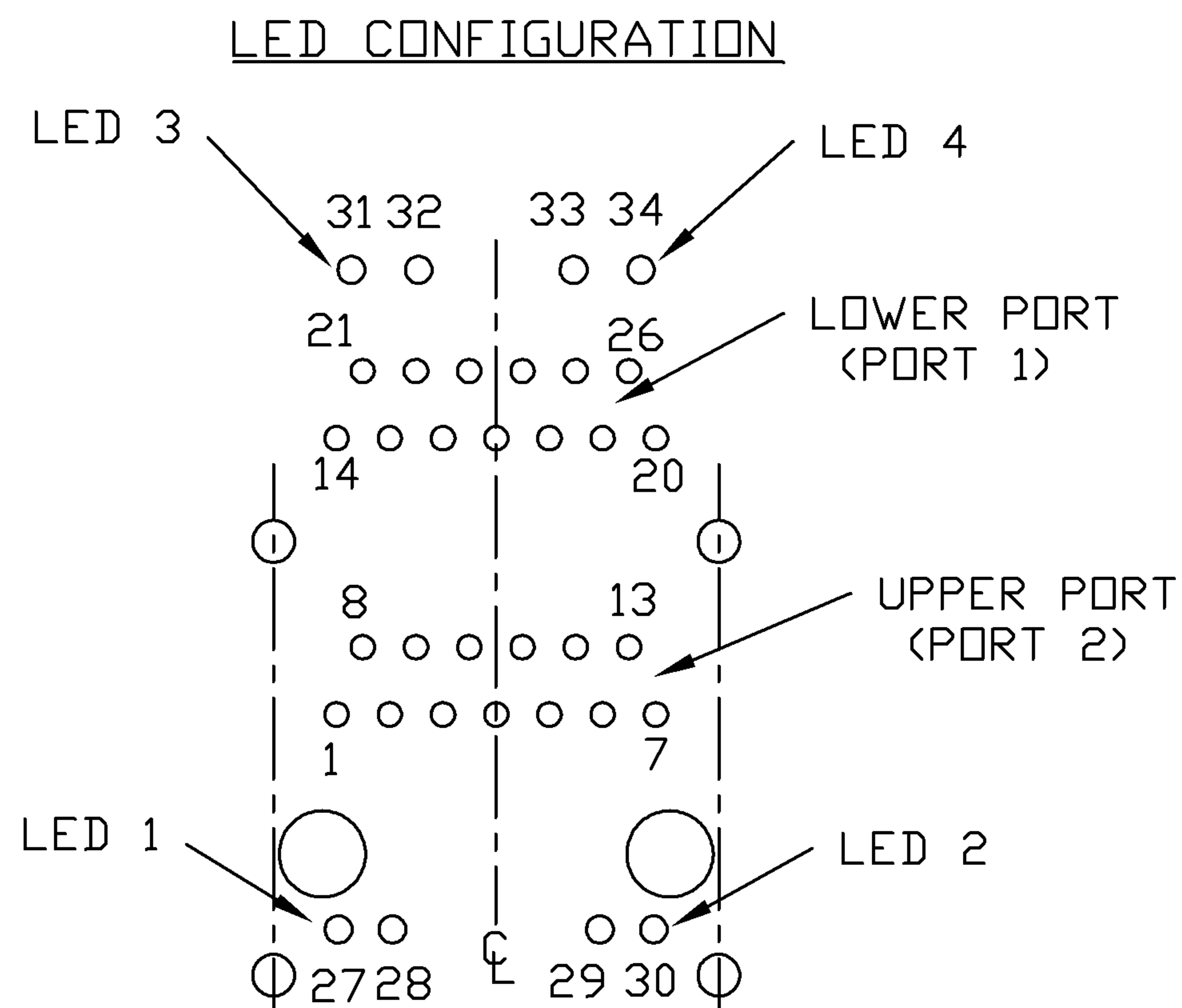
RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

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

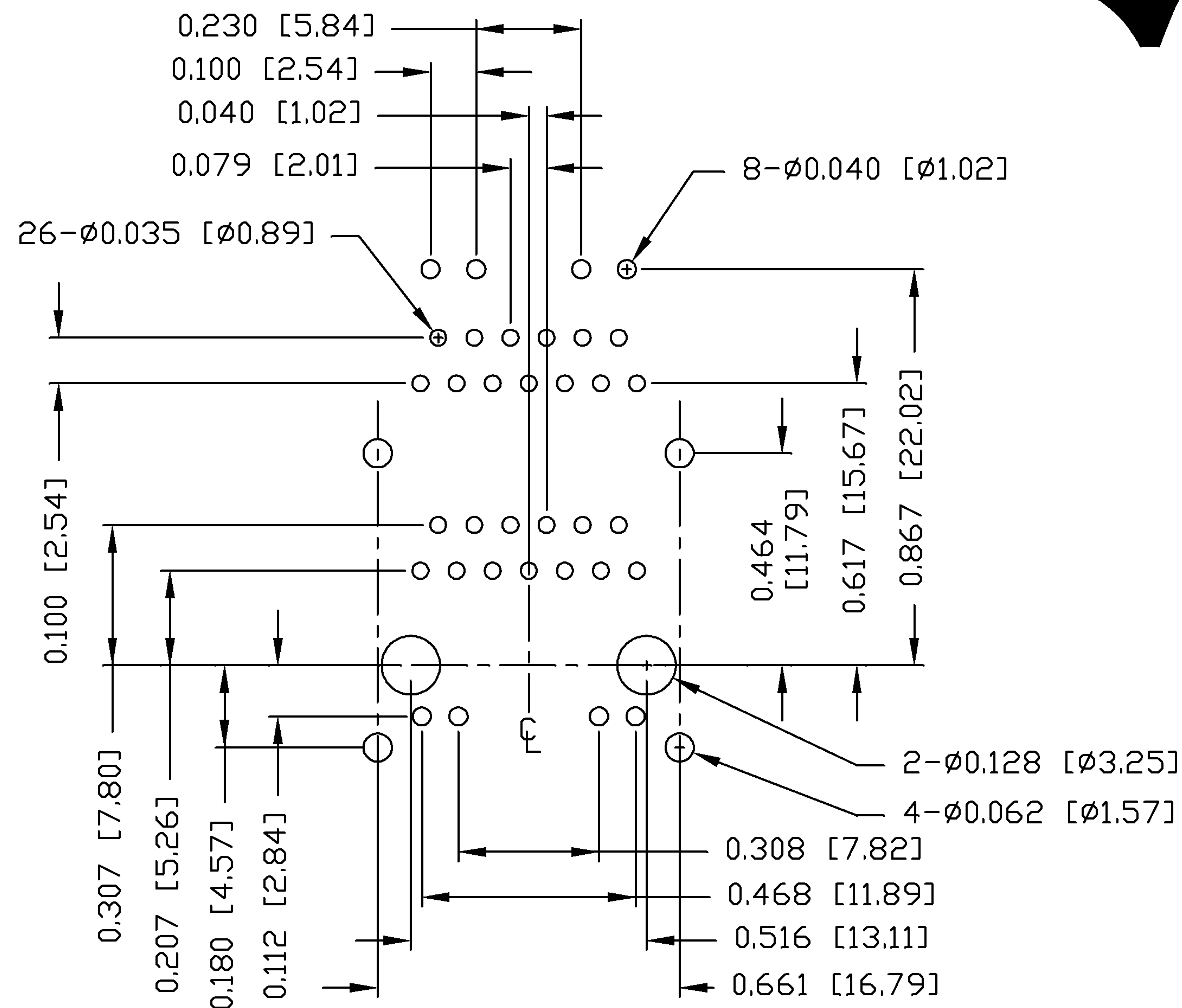
[2] MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

 USUL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
				TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
LIU QIN	11-06-08	2X1 gigabit MagJack® (Extended Temperature of -E4)	0845-2C1T-DY FILE NAME 0845-2C1T-DY_B.DWG	.X		SCALE : N/A	SIZE : A4	
DRAWN BY	DATE			.XX			PAGE : 4	
XIAN JIAXIN	11-06-08			.XXX	±0.010			



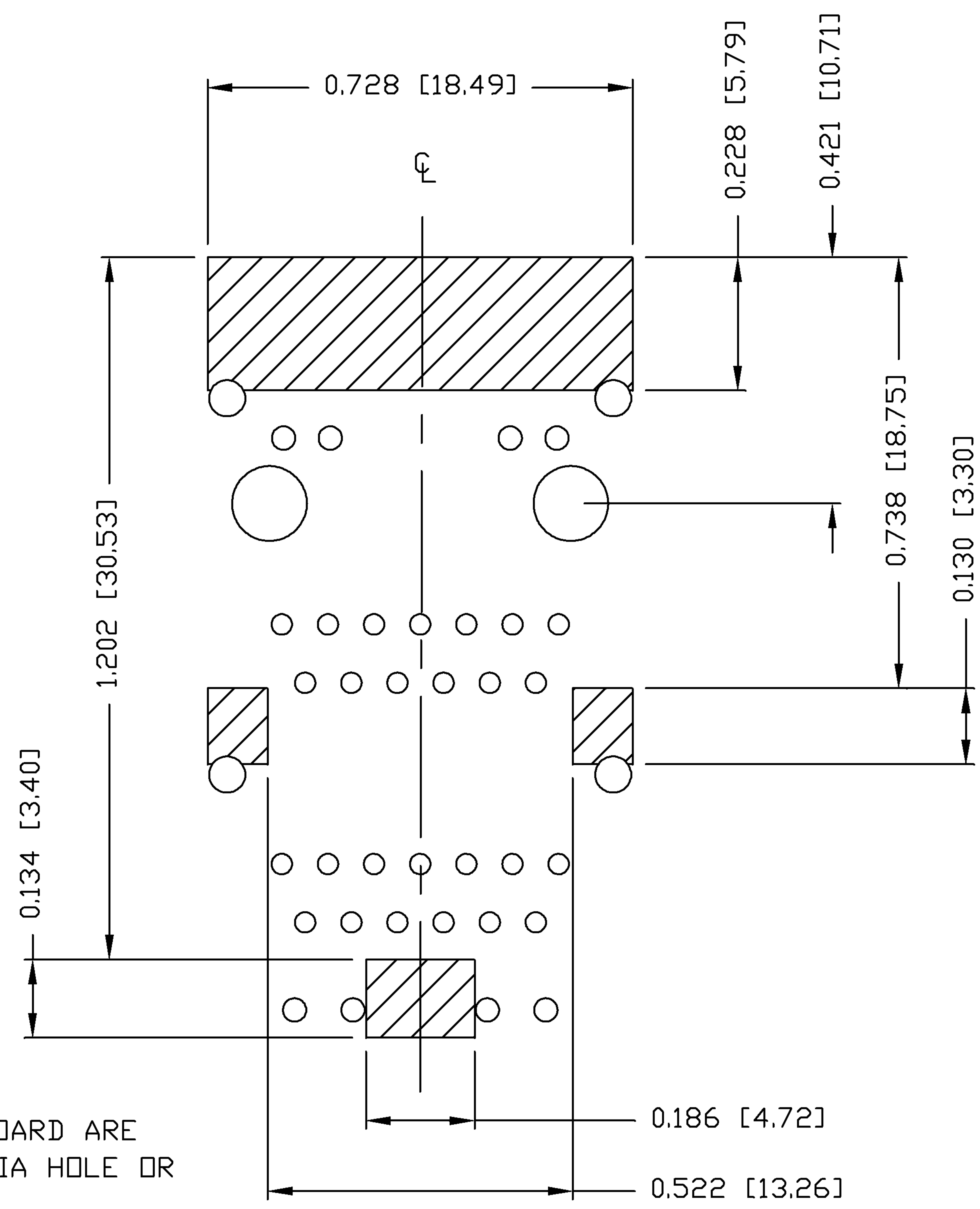
PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)
(SCALE 2:1)



SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)
(SCALE 2:1)

ORIGINATED BY	DATE	TITLE 2X1 glgabit MagJack® (Extended Temperature of -E4)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
LIU QIN	11-06-08		0845-2C1T-DY	TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	11-06-08			0845-2C1T-DY_B.DWG		.XX		
			.XXX	±0.004				

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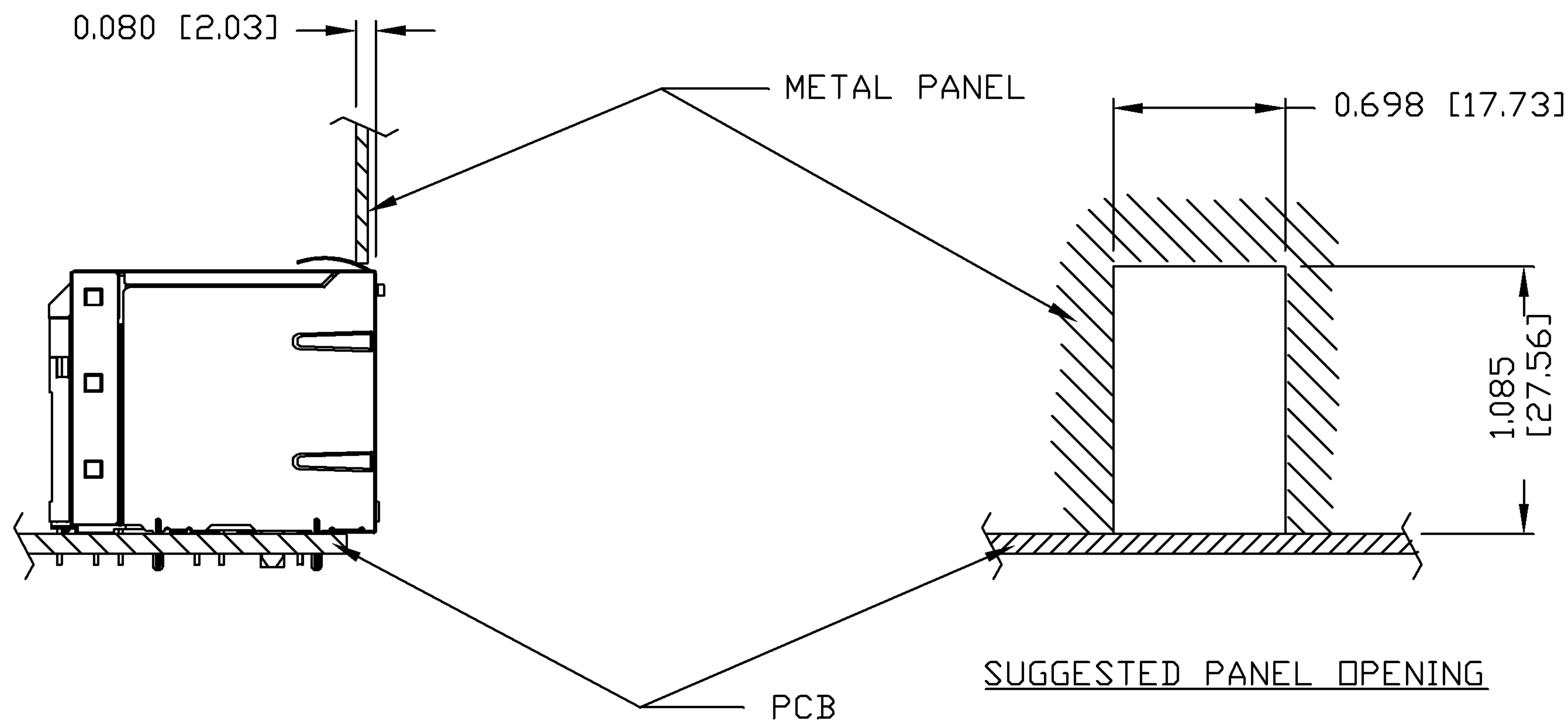
NOTES

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

ORIGINATED BY LIU QIN	DATE 11-06-08	TITLE 2X1 gigabit MagJack ® (Extended Temperature of -E4)	PART NO. / DRAWING NO. 0845-2C1T-DY		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
			FILE NAME 0845-2C1T-DY_B.DWG		.X		UNIT : INCH [mm]	REV. : B
DRAWN BY XIAN JIAXIN	DATE 11-06-08				.XX		SCALE : N/A	SIZE : A4
					.XXX	±0.004		PAGE : 6



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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)

ORIGINATED BY	DATE	TITLE 2X1 glgabit MagJack® (Extended Temperature of -E4)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		
LIU QIN	11-06-08		0845-2C1T-DY	TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	11-06-08		0845-2C1T-DY_B.DWG	.XX				
		.XXX		±0.004				