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LED1 POLARITY			LED2 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
-	+	GREEN	-	+	YELLOW

RoHS
2002/95/EC



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

OCL @ 100kHz/100mVRMS

8mA DC BIAS	350µH MIN.
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INS. LOSS

0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.5 dB MAX
65MHz TO 100MHz	-0.8 dB MAX
100MHz TO 125MHz	-1.2 dB MAX

RET. LOSS (MIN)

0.5MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(f/80MHz) dB

CROSS TALK

1MHz - 60MHz	-35 dB MIN.
60MHz - 100MHz	-25 dB MIN.

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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HIPOT (Isolation Voltage): 1500 Vrms

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

LED 1

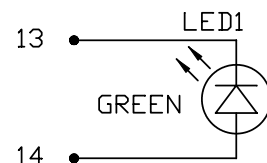
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.

LED 2

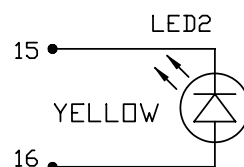
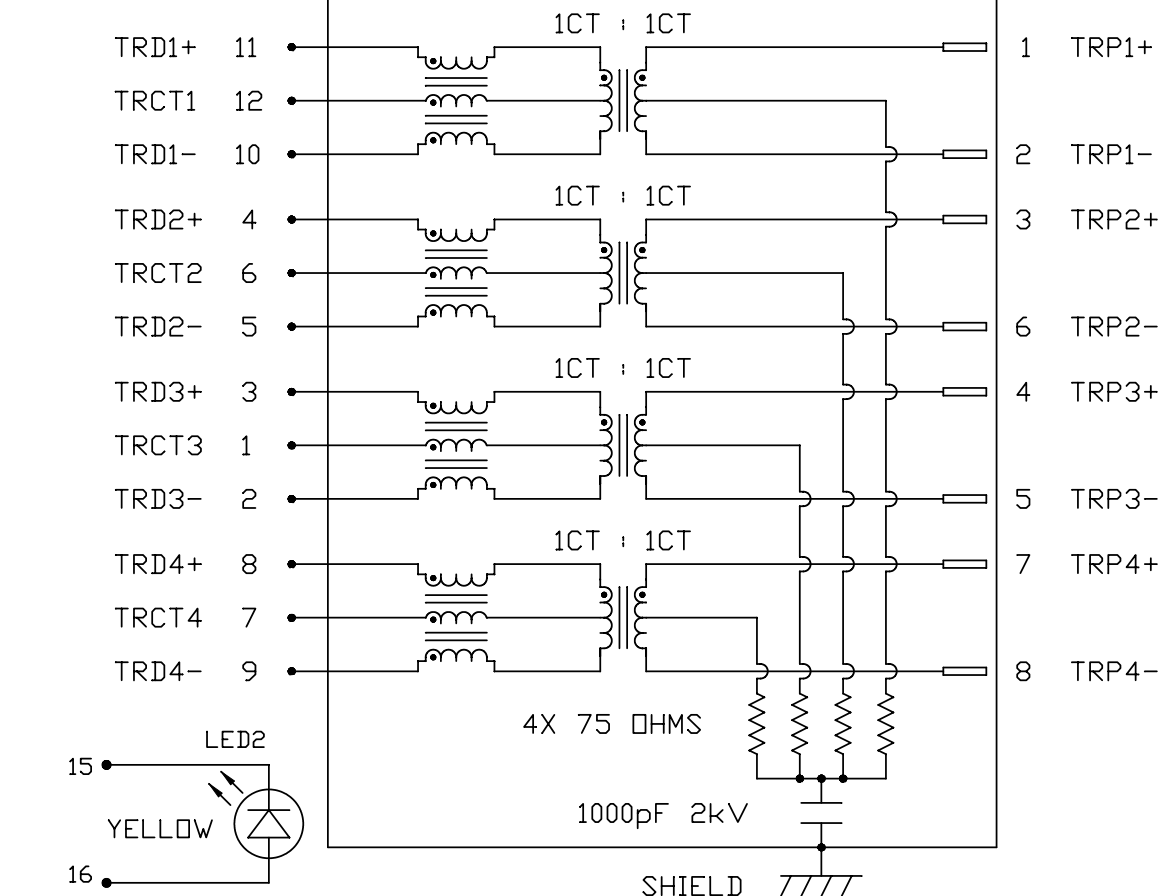
VF (FORWARD VOLTAGE)	IF=20mA YELLOW 2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW 590nm TYP.

USB ELECTRICAL:

INSULATION RESISTANCE:	1000 MEGAΩ (MIN)
CONTACT RESISTANCE:	25 MILLIΩ (MAX)
DIELECTRIC WITHSTANDING:	750 VAC



SCHEMATIC



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : B
CHOW WANGCHUNG	07-08-09	gigabit MagJack® Combo (single USB, 8 cores) 0821-1D1T-43-F PATENTED	08211D1T43-F FILE NAME 08211D1T43-F_B.DWG	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE			.XX			PAGE : 2
LEE WEIDE	07-08-09			.XXX			

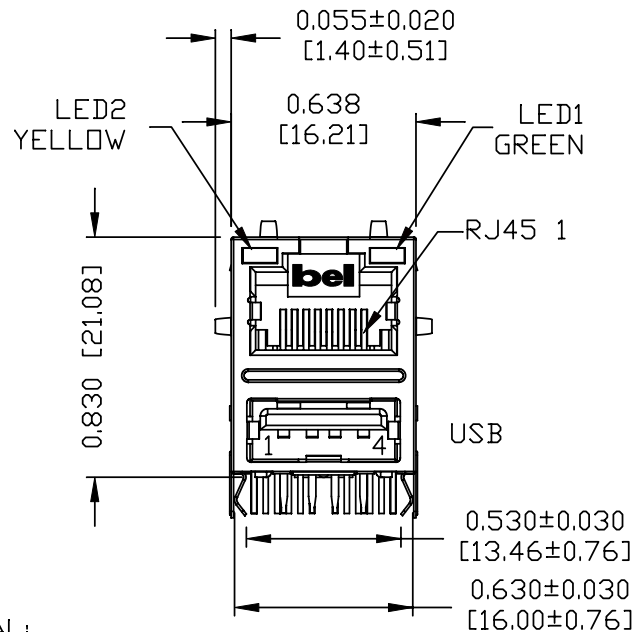


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RoHS
2002/95/EC



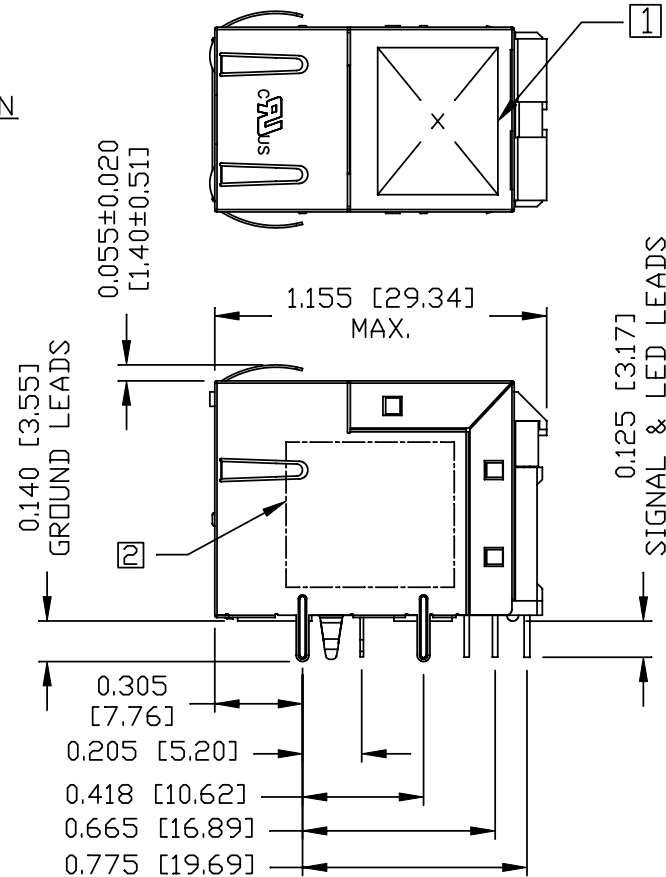
MECHANICAL SPECIFICATION



RJ45 MECHANICAL:

PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 30 MICRO-INCH HARD GOLD PLATING
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

- ① MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER AND DATE CODE.
② MARKING "PATENTED".
3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
cULus UL RECOGNIZED - FILE #E196366 AND E169987.

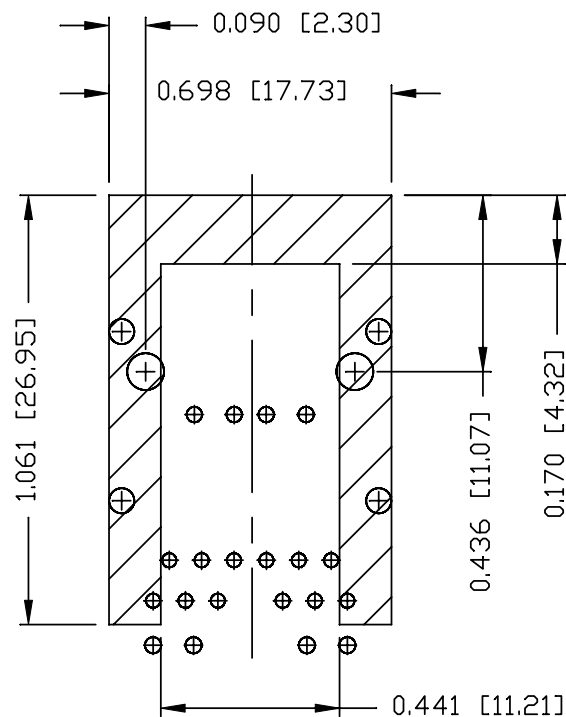


USB MECHANICAL:

MATING FORCE: 35 NEWTONS MAXIMUM
UNMATING FORCE: 10 NEWTONS MINIMUM
CONTACT: PROSPER BRONZE,
30 MICRO-INCH GOLD PLATING ON CONTACT AREA
AND LEAD-FREE TIN ON SOLDER TAIL.
4. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.
5. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS
U.S. PAT. 5,736,910.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
LIU QIN	07-08-09	gigabit MagJack® Combo (single USB, 8 cores) 0821-1D1T-43-F PATENTED	08211D1T43-F FILE NAME 08211D1T43-F_B.DWG	.X	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE			.XX	SCALE : N/A	SIZE : A4
XIAN JIAXIN	07-08-09			.XXX ±0.010		PAGE : 3

bel
COMPONENTS FOR A
CONNECTED
PLANET



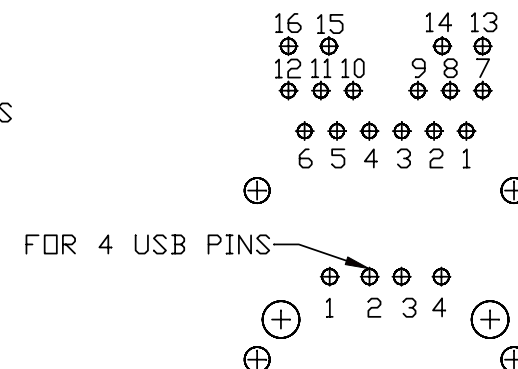
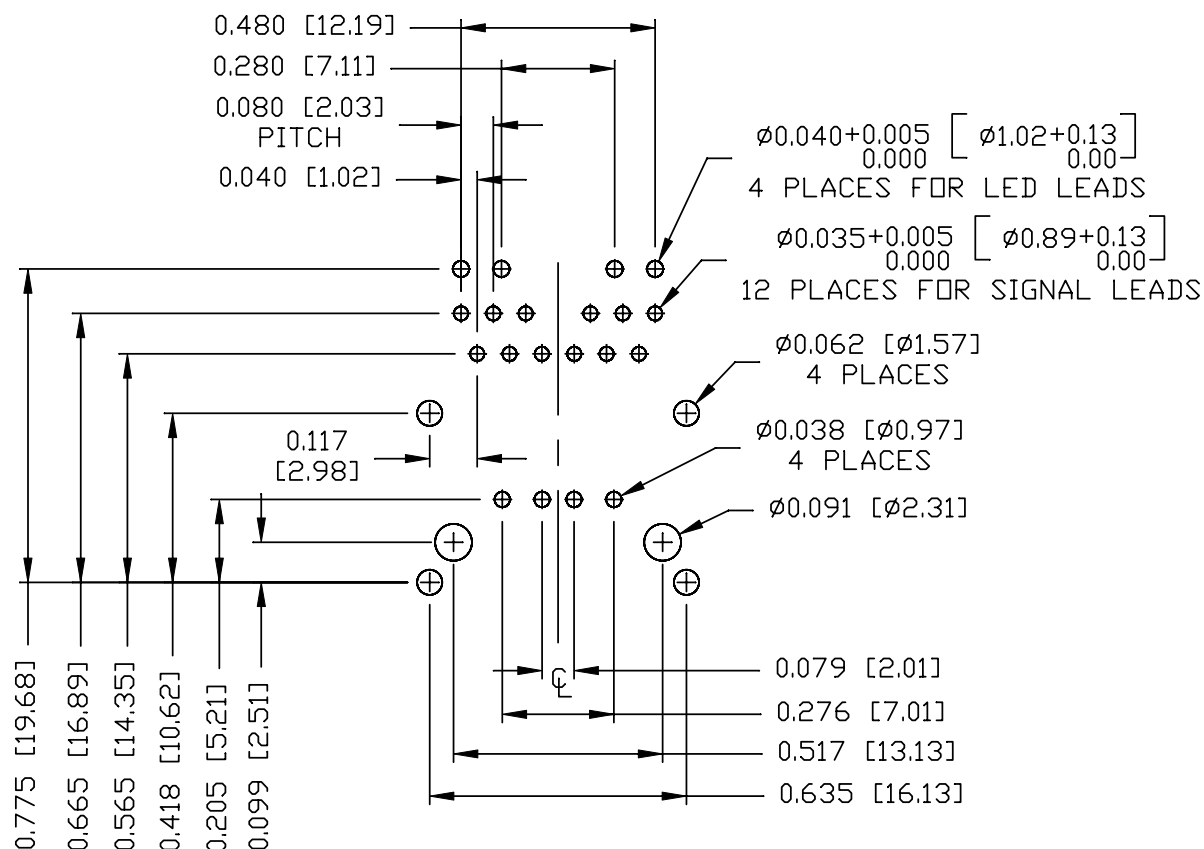
NOTES:

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

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DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A SIZE : A4
XIAN JIAXIN	07-08-09	0821-1D1T-43-F PATENTED	08211D1T43-F_B.DWG	.XX	
				.XXX	±0.004
					PAGE : 4

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RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW

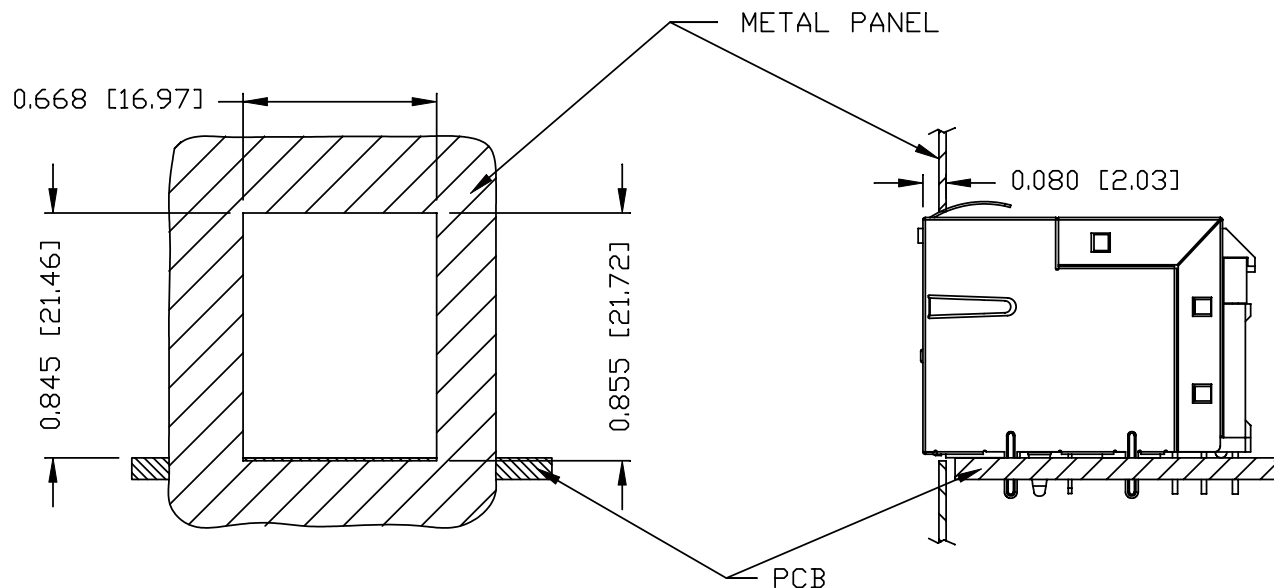


ORIGINATED BY LIU QIN	DATE 07-08-09	TITLE gigabit MagJack® Combo (single USB, 8 cores) 0821-1D1T-43-F PATENTED	PART NO. / DRAWING NO. 08211D1T43-F	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
				.X		UNIT : INCH [mm]	REV. : B
DRAWN BY XIAN JIAXIN	DATE 07-08-09		FILE NAME 08211D1T43-F_B.DWG	.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.004		PAGE : 5





SUGGESTED PANEL OPENING



NOTES:

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 : 0200-0148-48 (TOP)

0200-0148-49 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY

8 TRAYS (480 PCS FINISHED GOODS) PER CARTON BOX

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

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DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A SIZE : A4		
XIAN JIAXIN	07-08-09		08211D1T43-F_B.DWG	.XX		PAGE : 6		
				.XXX	±0.004			