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

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

CL @ 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

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.

OPERATING TEMPERATURE: -40°C TO +85°C

LED 1

V _F (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
λ _D (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.

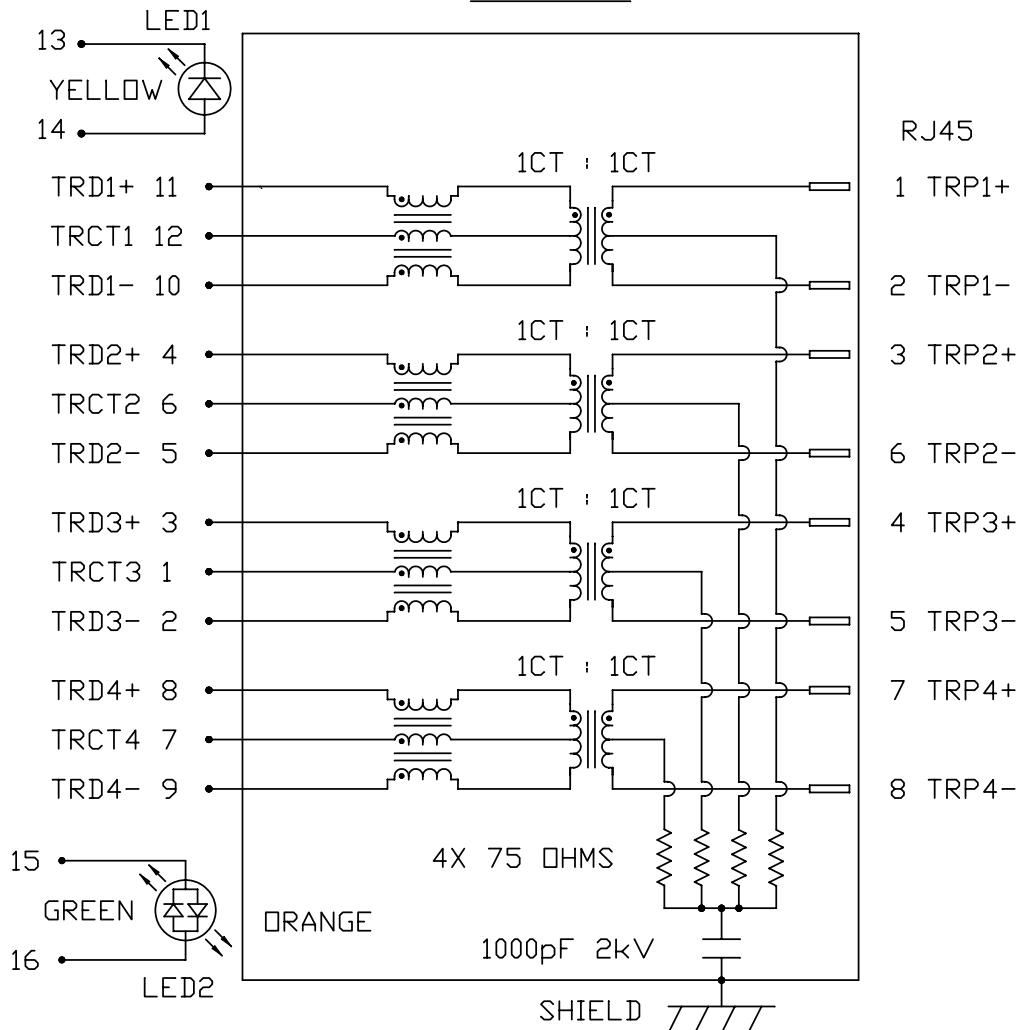
LED 2

V _F (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
		ORANGE	2.0V TYP.
λ _D (DOMINANT WAVELENGTH)	IF=20mA	GREEN	565nm TYP.
		ORANGE	610nm TYP.

USB ELECTRICAL:

INSULATION RESISTANCE:	1000 MEGA (MIN)
CONTACT RESISTANCE:	25 MILLI Ω (MAX)
DIELECTRIC WITHSTANDING:	750 VAC

SCHEMATIC



ORIGINATED BY	DATE
CHOW WANCHUNG	2012-08-15
DRAWN BY	DATE
TAN QIGUANG	2012-08-15

TITLE
gigabit MagJack® Combo (Single USB) Extended temperature 0821-1X1T-32-F PATENTED

PART NO. / DRAWING NO.
08211X1T32-F
FILE NAME
08211X1T32-F_B.DWG

STANDARD DIM.
TOL. IN INCH
.X
.XX
.XXX

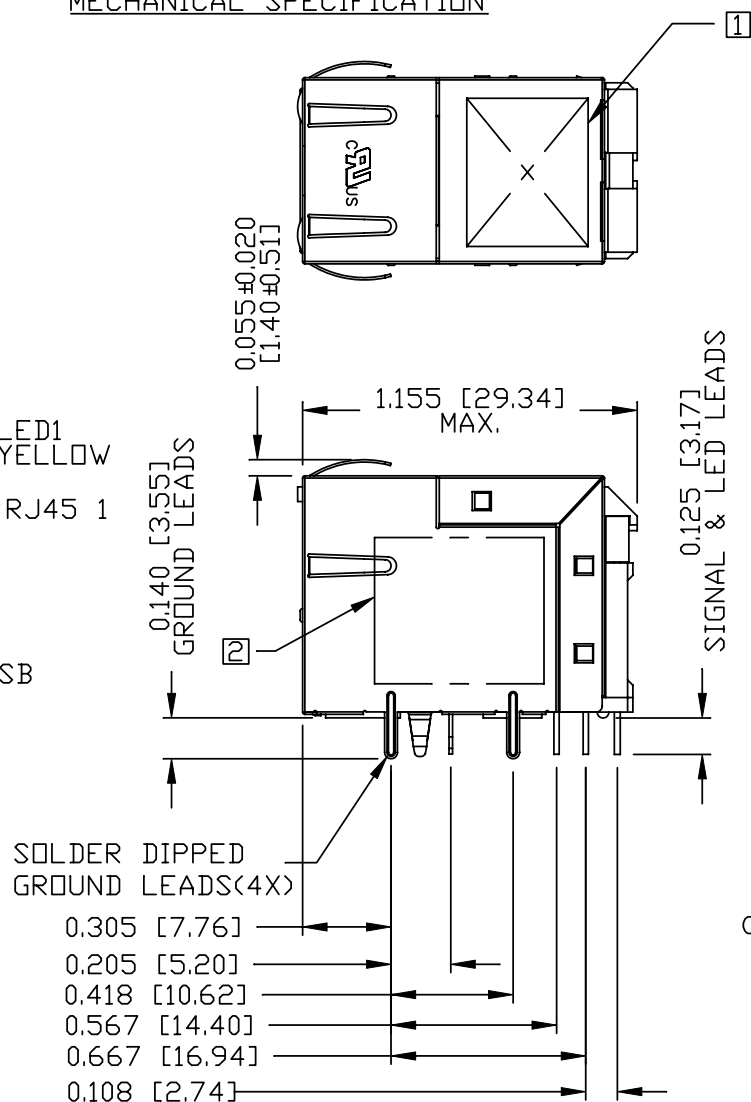
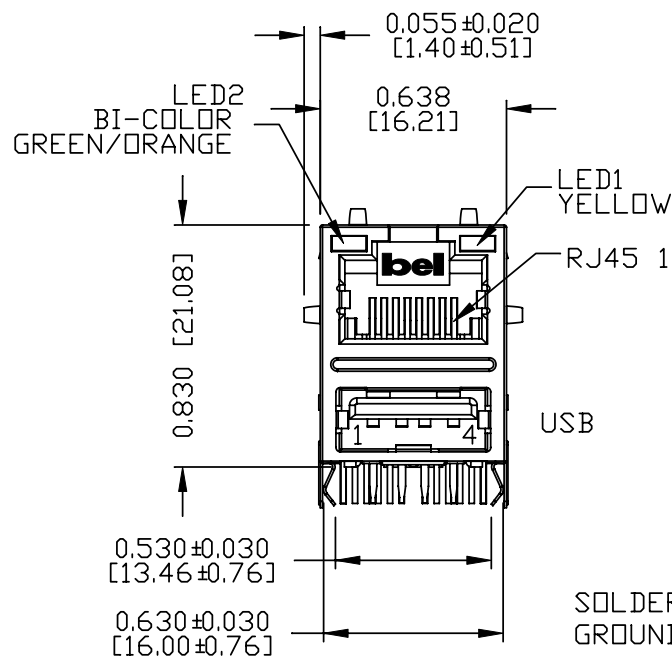
[] METRIC DIM. AS REFERENCE
UNIT : INCH [mm]
SCALE : N/A
REV. : B
SIZE : A4
PAGE : 2



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MECHANICAL SPECIFICATION

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RJ45 MECHANICAL:

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

USB MECHANICAL:

MATING FORCE: 35 NEWTONS MAXIMUM
 UNMATING FORCE: 10 NEWTONS MINIMUM
 CONTACT: PROSPER BRONZE
 30 MICRO-INCH MIN GOLD PLATING ON CONTACT AREA AND TIN ON SOLDER TAIL.

① MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER AND DATE CODE.

UL US UL RECOGNIZED - FILE #E196366 AND E169987.

② MARKING "PATENTED".

3. THE PRODUCT IS RoHS COMPLIANT.

4. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 7,123,117.

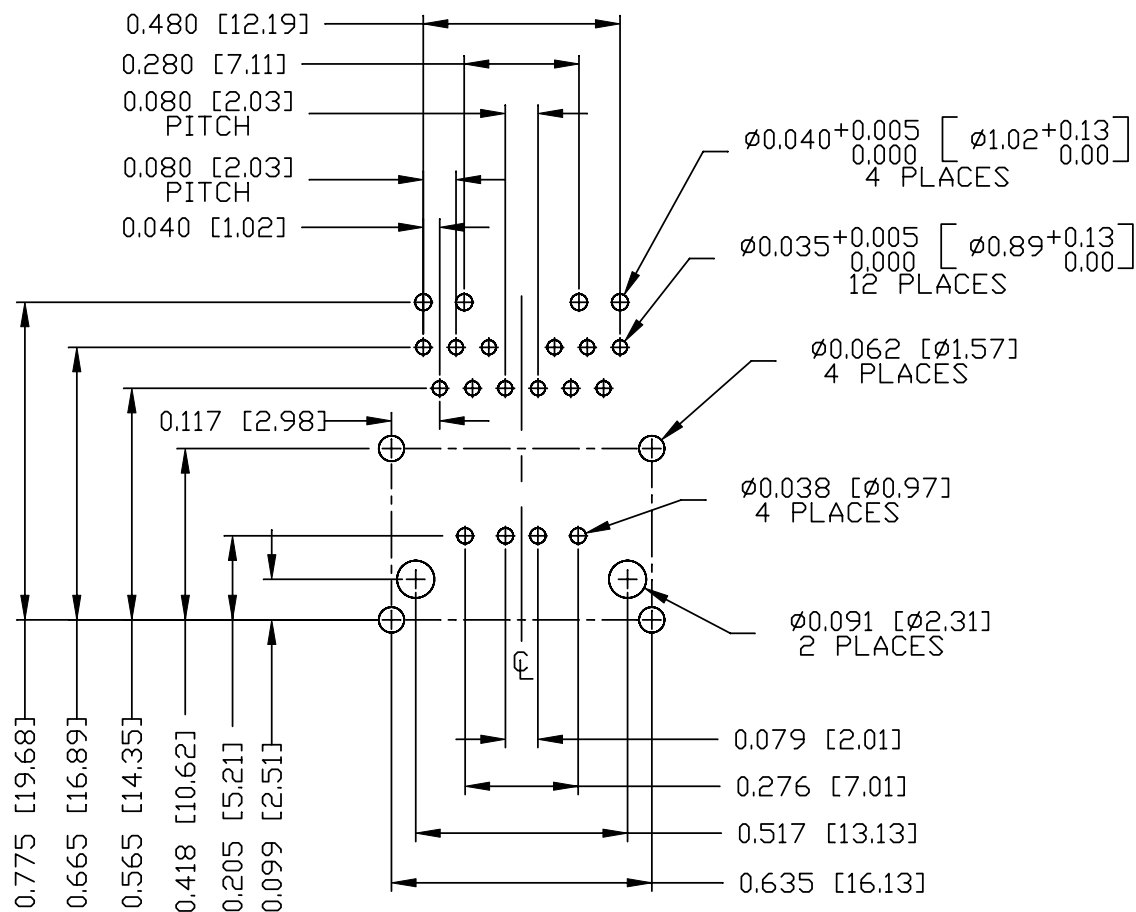
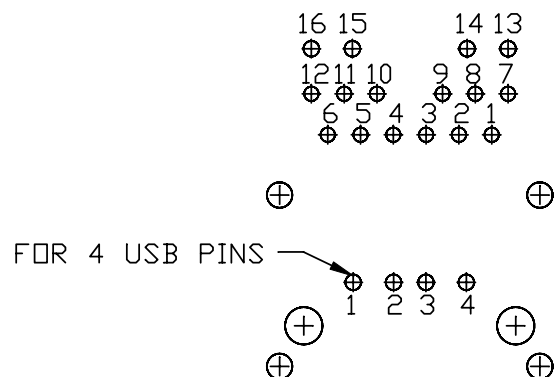
ORIGINATED BY	DATE	TITLE gigabit MagJack® Combo (Single USB) Extended temperature 0821-1X1T-32-F PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
LIAO ANTON	2012-08-15		08211X1T32-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
HE ZHEN	2012-08-15		08211X1T32-F_B.DWG	.XX		PAGE : 3
				.XXX	±0.010	



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RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW

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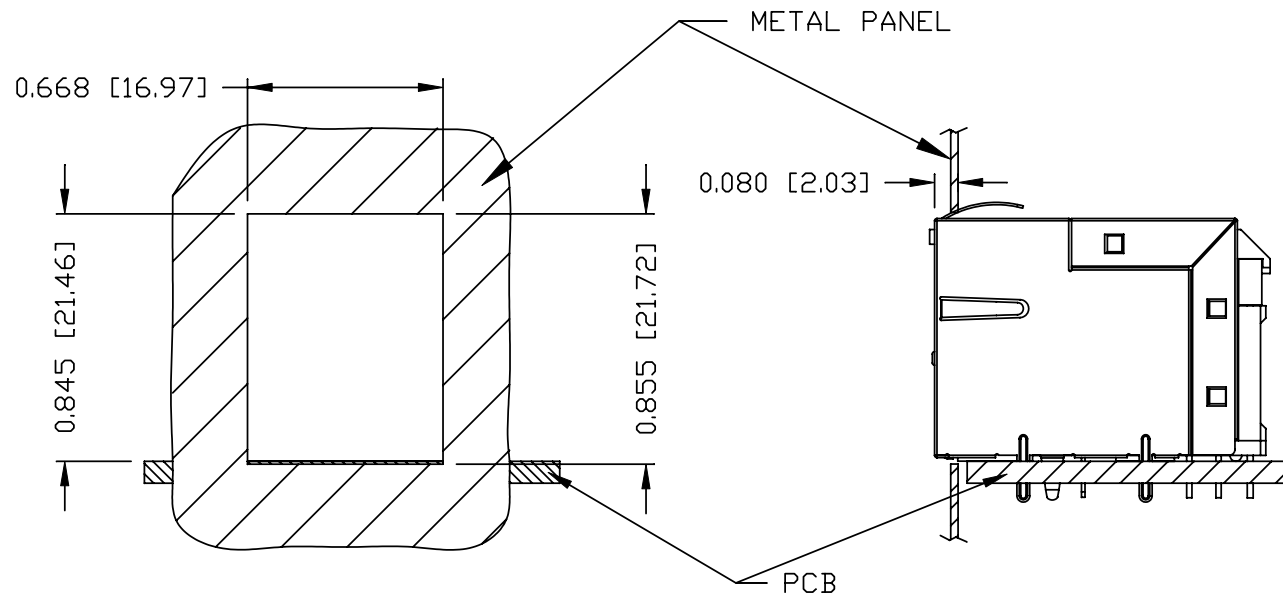
ORIGINATED BY	DATE	TITLE gigabit MagJack® Combo (Single USB) Extended temperature 0821-1X1T-32-F PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
LIAD ANTON	2012-08-15		08211X1T32-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
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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)

ORIGINATED BY LIAO ANTON	DATE 2012-08-15	TITLE gigabit MagJack® Combo (Single USB) Extended temperature 0821-1X1T-32-F PATENTED	PART NO. / DRAWING NO. 08211X1T32-F	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
				.X		UNIT : INCH [mm]	REV. : B
DRAWN BY HE ZHEN	DATE 2012-08-15		FILE NAME 08211X1T32-F_B.DWG	.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.004		PAGE : 5

bel
COMPONENTS FOR A
CONNECTED
PLANET