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LED1 POLARITY			LED2 POLARITY			
PIN 11	PIN 12	COLOR	PIN 15	PIN 14	PIN 13	COLOR
-	+	YELLOW	-	+	/	ORANGE
/	/	/	/	+	-	GREEN

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT $\pm 2\%$
TP2	1CT : 1CT $\pm 2\%$
TP3	1CT : 1CT $\pm 2\%$
TP4	1CT : 1CT $\pm 2\%$

OCL @ 100kHz/100mVRMS

8mA DC BIAS	350 μ H MIN.
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INS. LOSS

1MHz TO 100MHz	-1.2 dB MAX
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RET. LOSS (MIN) @ 100 Ω HMS $\pm 15\%$

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

Cross Talk

Ch1-Ch2, Ch2-Ch3, Ch3-Ch4, Ch4-Ch1, Ch2-Ch4, Ch3-Ch1

1MHz - 30MHz	-35dB MIN
30MHz - 80MHz	-24dB MIN
80MHz - 100MHz	-25dB 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):

100% OF PRODUCTION TESTED TO COMPLY WITH	1500 Vrms or 2250 VDC
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IEEE 802.3 ISOLATION REQUIREMENTS.

LED 1

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

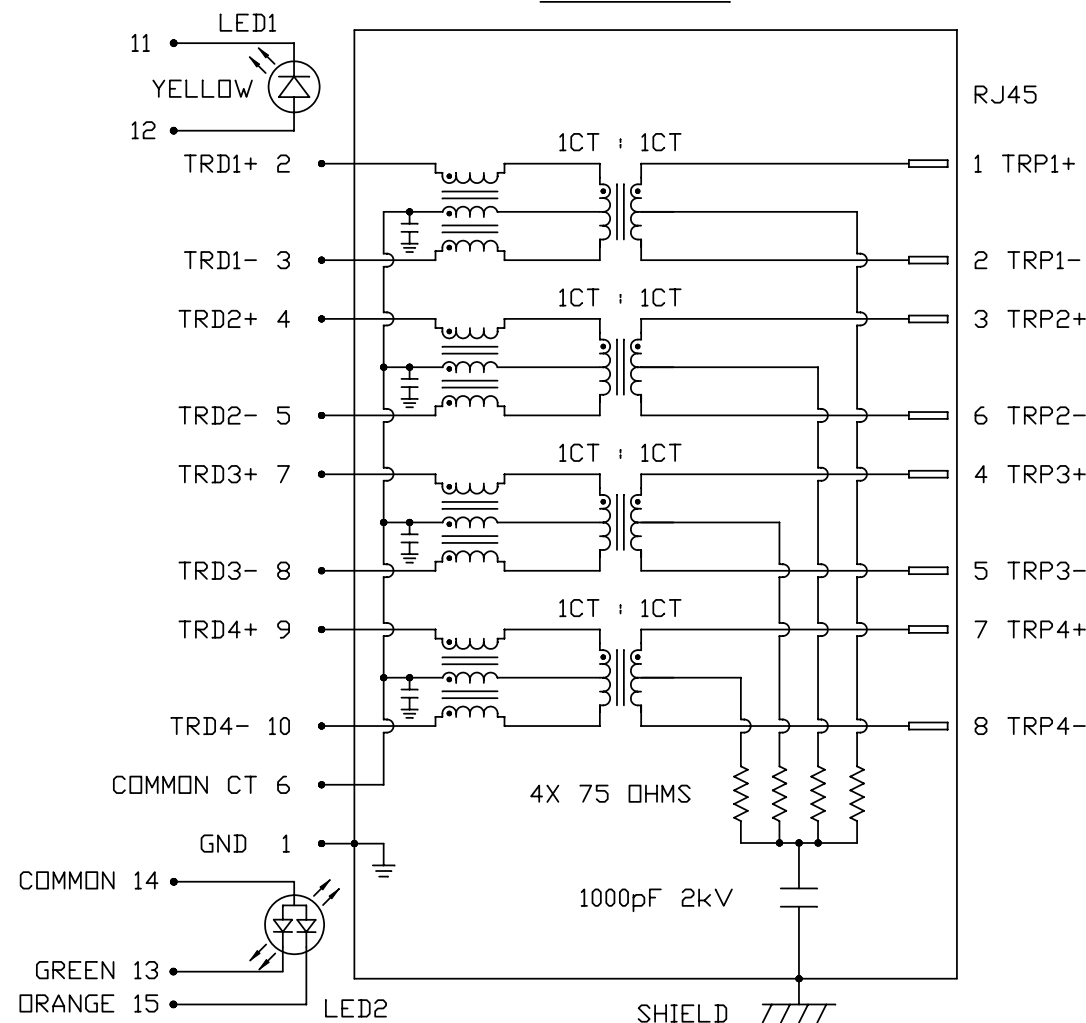
LED 2

VF (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 Ω (MIN)
CONTACT RESISTANCE:	25 MILLI Ω (MAX)
DIELECTRIC WITHSTANDING:	750 VAC

SCHEMATIC



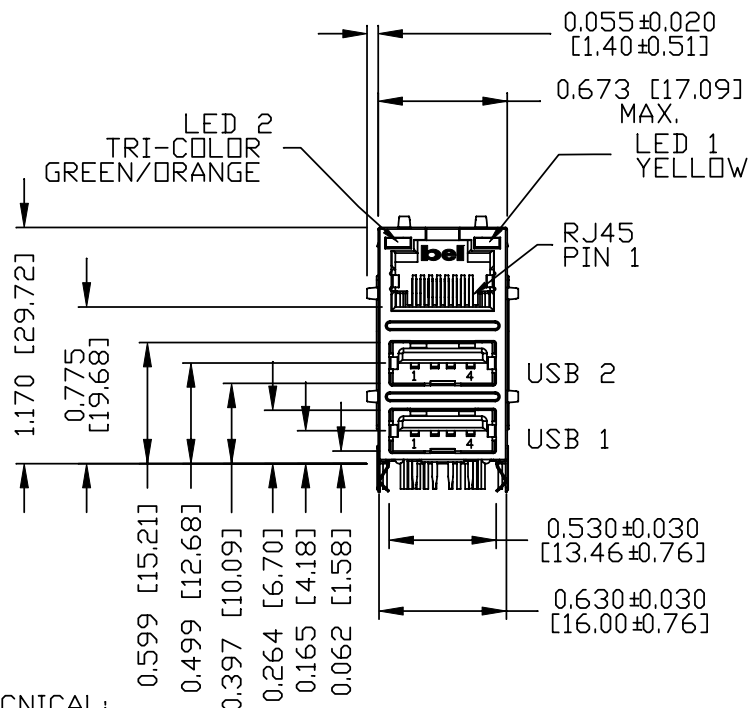
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
CHOW WANCHUNG	2012-07-11	gigabit MagJack® Combo (Dual Stuff Option, 8 cores) 0862-1J1T-43-F PATENTED	08621J1T43-F	.X	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE			.XX	SCALE : N/A	SIZE : A4
TAN QIGUANG	2012-07-11			.XXX		PAGE : 2



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MECHANICAL SPECIFICATION

RoHS



RJ45 MECHCNICAL:

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.

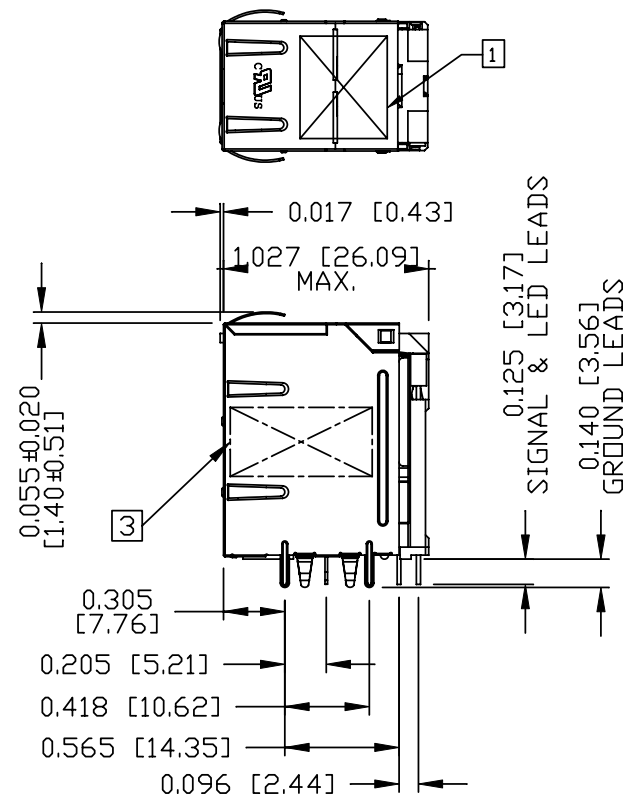
(ALL GROUND LEADS ARE SOLDER DIPPED)

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

2. THE PRODUCT IS RoHS COMPLIANT.

cUL US UL RECOGNIZED - FILE #E196366 AND E169987.

3. "PATENTED" MARKING. THE PRODUCT IS PATENT. THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.



USB MECHANICAL:

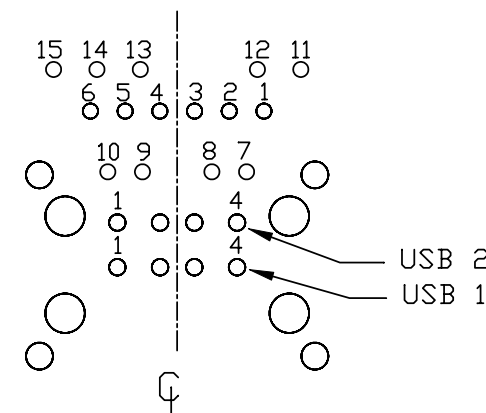
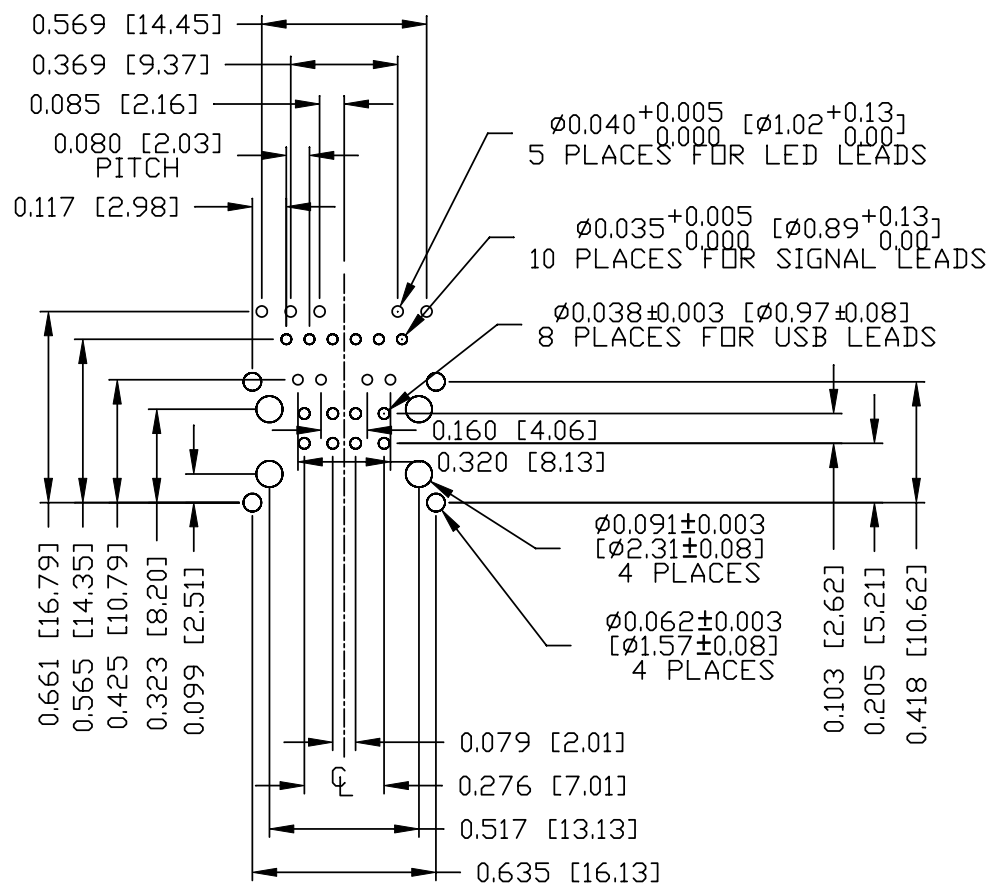
MATING FORCE: 35 NEWTONS MAXIMUM

UNMATING FORCE: 10 NEWTONS MINIMUM

CONTACT: PROSPHER BRONZE, 30 MICRO-INCH GOLD PLATING ON CONTACT AREA AND LEAD-FREE TIN ON SOLDER TAIL.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
ANTON LIAO	2012-07-11	gigabit MagJack® Combo (Dual Stuff Option, 8 cores)	08621J1T43-F	.X	UNIT : INCH [mm] REV. : B
DRAWN BY	DATE	0862-1J1T-43-F	FILE NAME	.XX	SCALE : N/A SIZE : A4
HE ZHEN	2012-07-11	PATENTED	08621J1T43-F_B.DWG	.XXX ±0.010	PAGE : 3

bel
COMPONENTS FOR A
CONNECTED
PLANET



PIN ASSIGNMENT
SCALE 3:2

RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW

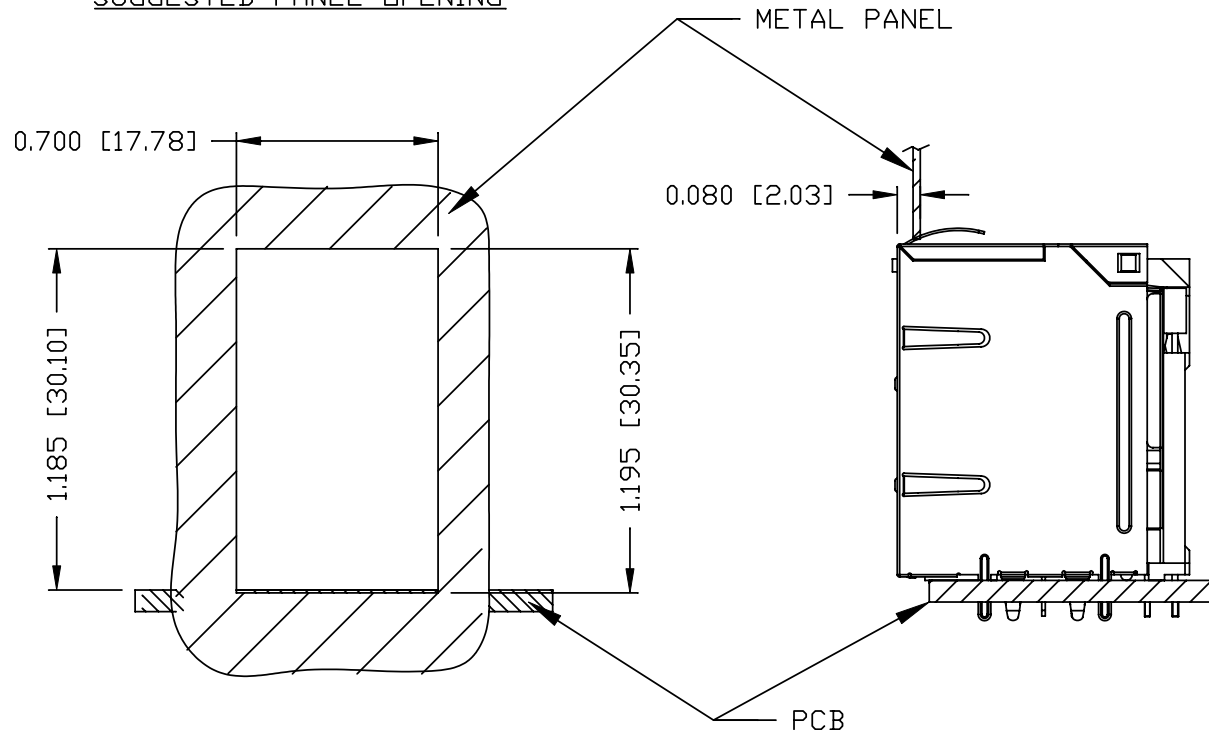
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				TOL. IN INCH		UNIT : INCH [mm]	REV. : B
ANTON LIAO	2012-07-11	gigabit MagJack® Combo (Dual Stuff Option, 8 cores) 0862-1J1T-43-F PATENTED	08621J1T43-F	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE			.XX			PAGE : 4
HE ZHEN	2012-07-11			.XXX	± 0.005		

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SUGGESTED PANEL OPENING



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-A3

PACKING QUANTITY : 42 PCS FINISHED GOODS PER TRAY

10 TRAYS (420PCS 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			.XX	SCALE : N/A	SIZE : A4	
HE ZHEN	2012-07-11			.XXX	±0.005	PAGE : 5	