L	.ED	1 PO	POLARITY LED2 POLARITY				RITY		
PIN	13	PIN	14	COLOR	PIN	15	PIN	16	COLOR
_		+		GREEN	_		+		GREEN



8

TRP4-

+   UKLEN	<u>SCHEMATIC</u>		
13 • LED1		l R	J45
GREEN (			
14•	1CT + 1CT		
TRD1+ 11 ←		1	TRP1+
TRCT1 12 •			
TRD1- 10 ←		2	TRP1-
TRD2+ 4 ←	1CT : 1CT	3	TRP2+
TRCT2 6 ←			
TRD2- 5 ←		6	TRP2-
TRD3+ 3 ←	1CT : 1CT	4	TRP3+
TRCT3 1 ←			
TRD3- 2 •─		5	TRP3-
TRD4+ 8 •─	1CT : 1CT	7	TRP4+
TRCT4 7 ←			

4X 75 DHMS

1000pF 2kV

SHIELD

ELECTRICAL CHARACTERISTICS TURNS RATIO	<u>e 25°C</u>
TP1 TP2 TP3 TP4 □CL @ 100kHz/100m∨RMS	1CT : 1CT ±2% 1CT : 1CT ±2% 1CT : 1CT ±2% 1CT : 1CT ±2%
8mA DC BIAS INS. LOSS	350µH MIN.
0.1MHz TO 1MHz 1MHz TO 65MHz 65MHz TO 100MHz 100MHz TO 125MHz	-1.1 dB MAX -0.5 dB MAX -0.8 dB MAX -1.2 dB MAX
RET. LOSS (MIN) 0.5MHz-40MHz 40MHz-100MHz	-18 dB -12+20LOG(f/80MHz) dB
CROSS TALK 100kHz - 100MHz	-33+20LOG(f/100MHz)dB MIN
CM TO CM REJ 100kHz - 100MHz CM TO DM REJ	-30 dB MIN
100kHz - 100MHz HIPOT (Isolation Voltage):	–35 dB MIN 1500 Vrms
100% OF PRODUCTION TESTED IEEE 802.3 ISOLATION REQUIR	TO COMPLY WITH
LED 1 AND LED 2 VF (FORWARD VOLTAGE) AD (DOMINANT WAVELENGTH)	IF=20mA GREEN 2.2V TYP. IF=20mA GREEN 565nm TYP.
USB ELECTRICAL:	
INSULATION RESISTANCE: CONTACT RESISTANCE: DIELECTRIC WITHSTANDING:	1000 MEGAΩ(MIN) 25 MILLIΩ(MAX) 750 VAC

ORIGINATED BY	DATE		PART NO. / DRAWING NO.	STANDA	RD DIM.	[ ] METRIC DIM. AS	REFERENCE	Τ.
CHOW WANGCHUNG	06-10-09	gigabit MagJack®Combo (single USB, 8 cores)	08211G1J43-F	TOL. I	N INCH	UNIT : INCH [mm]	REV. : A	11
DRAWN BY	DATE		FILE NAME	.X		SCALE: N/A	SIZE : A4	٦,
LI YONGFENG	06-10-09	PATENTED	08211G1J43-F_A.DWG	.XXX			PAGE: 2	1

TRD4-

GREEN

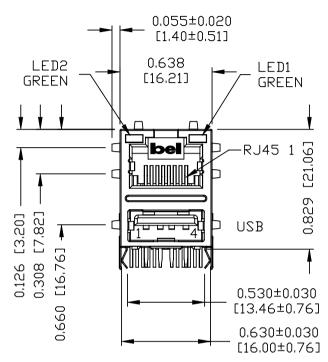
LED2

15 •−

16•

#### 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)

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

c Lus ul recognized - file #E196366 AND E169987.

ROHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC

KOU2 CHMELIA	NCE, PER EU	DIRECTIVE 2002/ 93/EC,
RIGINATED BY	DATE	TITLE
_IU QIN	06-10-09	gigabit MagJack®Combo (single USB, 8 cores)
DRAWN BY	DATE	0821-1G1J-43-F
NIXAIL NAIX	06-10-09	PATENTED

0.055±0.020 [1.40±0.51] 1.122 [53.34] XVW XVW XVW XVW XVW XVW XVW XVW
0.140 [3.55] GROUND LEADS 0.055 T. 146 T.
0.305 [7.76]
CHANICAL:

USB MECHANICAL:

MATING FORCE: 35 NEWTONS MAXIMUM UNMATING FORCE: 10 NEWTONS MINIMUM CONTACT: PROSPHER BRONZE,

30 MICRO-INCH GOLD PLATING ON CONTACT AREA

AND TIN ON SOLDER TAIL.

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

2 MARKING "PATENTED".

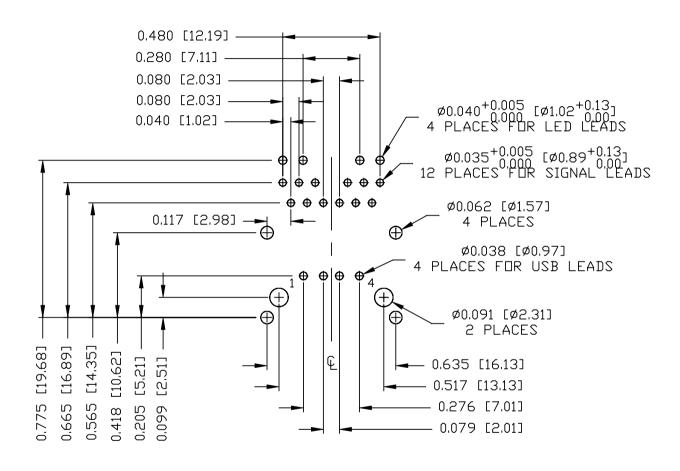
3. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 5,736,910.

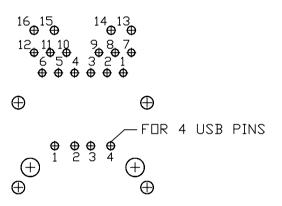
PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE			
08211G1J43-F	TOL. I	N INCH	UNIT : INCH [mm]	REV. : A		
FILE NAME	.XX		SCALE: N/A	SIZE: A4		
08211G1J43-F_A.DWG	.XXX	±0.010	lacktriangle	PAGE: 3		



# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW







ORIGINATED BY	DATE		
LIU QIN	06-10-09		
DRAWN BY	DATE		

gigabit MagJack® Combo (single USB, 8 cores) 0821-1G1J-43-F PATENTED

<b>PART NO. / DRAWING NO.</b> 08211G1J43-F		ARD DIM. N INCH
FILE NAME	.X	
	.XX	
08211G1J43-F_A.DWG	.XXX	±0,004

	[ ] METRIC DIM. AS	REFERENC
	UNIT : INCH [mm]	REV. : A
-	SCALE: N/A	SIZE : A4
	_	

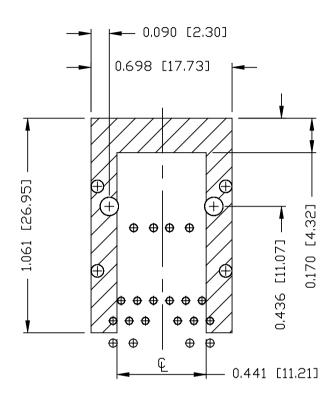
PAGE:



DC002(2)051509

# RoHS 2002/95/EC

## SHIELD COVER AREA IN PCB



# NOTES:

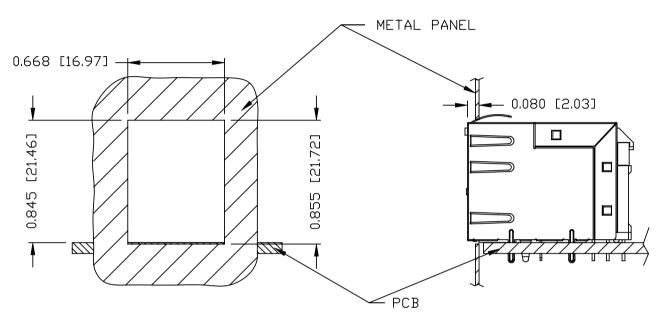
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REFERENCE
LIU QIN	06-10-09	gigabit MagJack®Combo (single USB, 8 cores)	08211G1J43-F	TOL. IN INCH	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE	0821-1G1J-43-F	FILE NAME	X .XX	SCALE: N/A SIZE: A4
NIXAIL NAIX	06-10-09	PATENTED	08211G1J43-F_A.DWG	.XXX ±0.004	<b>PAGE</b> : 5



# RoHS 2002/95/EC

#### 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: 0200M9999-H4 (TOP)

0200M9999-H5 (BOTTOM)

PACKING QUANTITY: 60 PCS FINISHED GDDDS 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	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REFERENCE
LIU QIN	06-10-09	gigabit MagJack®Combo (single USB, 8 cores)	08211G1J43-F	TOL. IN INCH	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE	0821-1G1J-43-F	FILE NAME	X .XX	SCALE: N/A SIZE: A4
NIXAIL NAIX	06-10-09	PATENTED	08211G1J43-F_A.DWG	.XXX ±0.004	<b>PAGE</b> : 6

