

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 (4CHANNEL)

11mA DC BIAS 350μH MIN.

Compliant to IEEE 802.3at specification

INS. LOSS

0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.8 dB MAX
65MHz TO 100MHz	-1.0 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

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage):

2250 VDC

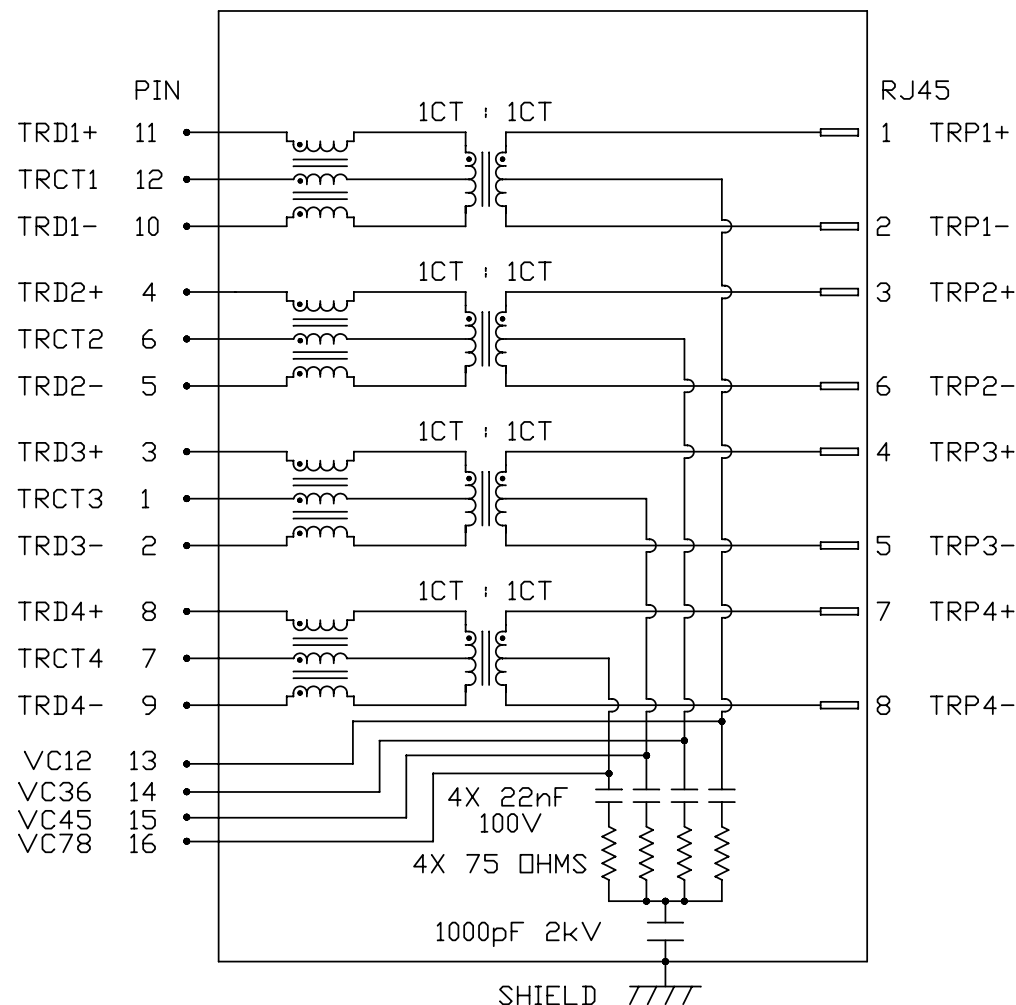
100% OF PRODUCTION TESTED TO COMPLY
WITH IEEE 802.3 ISOLATION REQUIREMENTS

BALANCED DC LINE CURRENT 720 mA MAX. @ 57 VDC CONTINUOUS

1.2 A MAX. @ 57 VDC FOR 200 MILLISECONDS

OPERATING TEMPERATURE: -40°C TO 85°C

SCHEMATIC

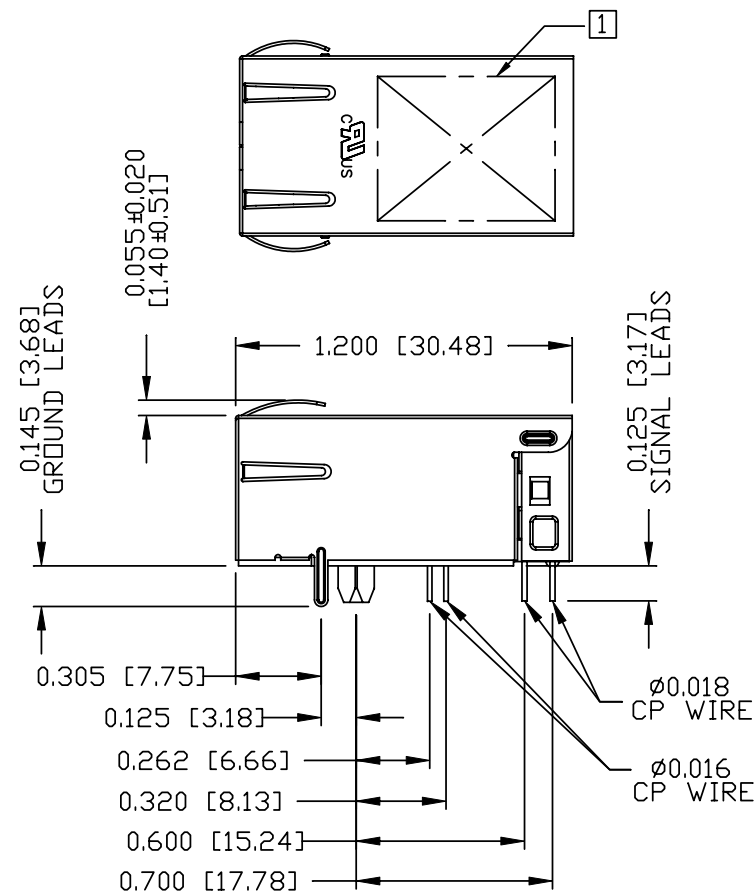
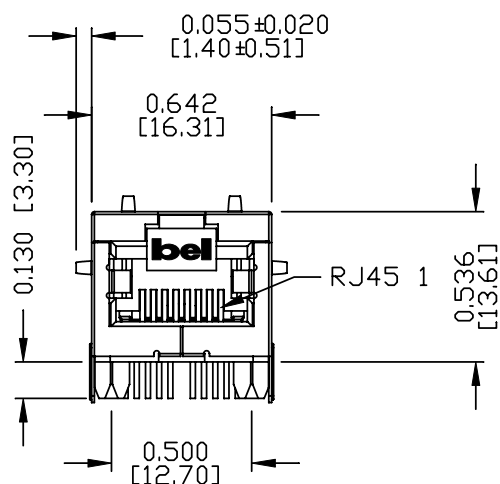


ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
CHOW WANGCHUNG	12-04-10	gigabit MagJack® (PoE, Extended Temperature)	08161X1TGH-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : A
DRAWN BY	DATE	0816-1X1T-GH-F	FILE NAME	.X	SCALE : N/A	SIZE : A4
LEE WEIDE	12-04-10	PATENTED	08161X1TGH-F_A.DWG	.XX		PAGE : 2
				.XXX		

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MECHANICAL SPECIFICATION

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NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA
FLAMMABILITY RATING UL 94V-0
CONTACTS: 50 MICRO-INCH HARD GOLD PLATING
OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.016
AND 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,
DATE CODE AND PATENTED.

2. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC
3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
4. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE
U.S. PAT. 5,736,910 AND U.S. PAT. 7,123,117.

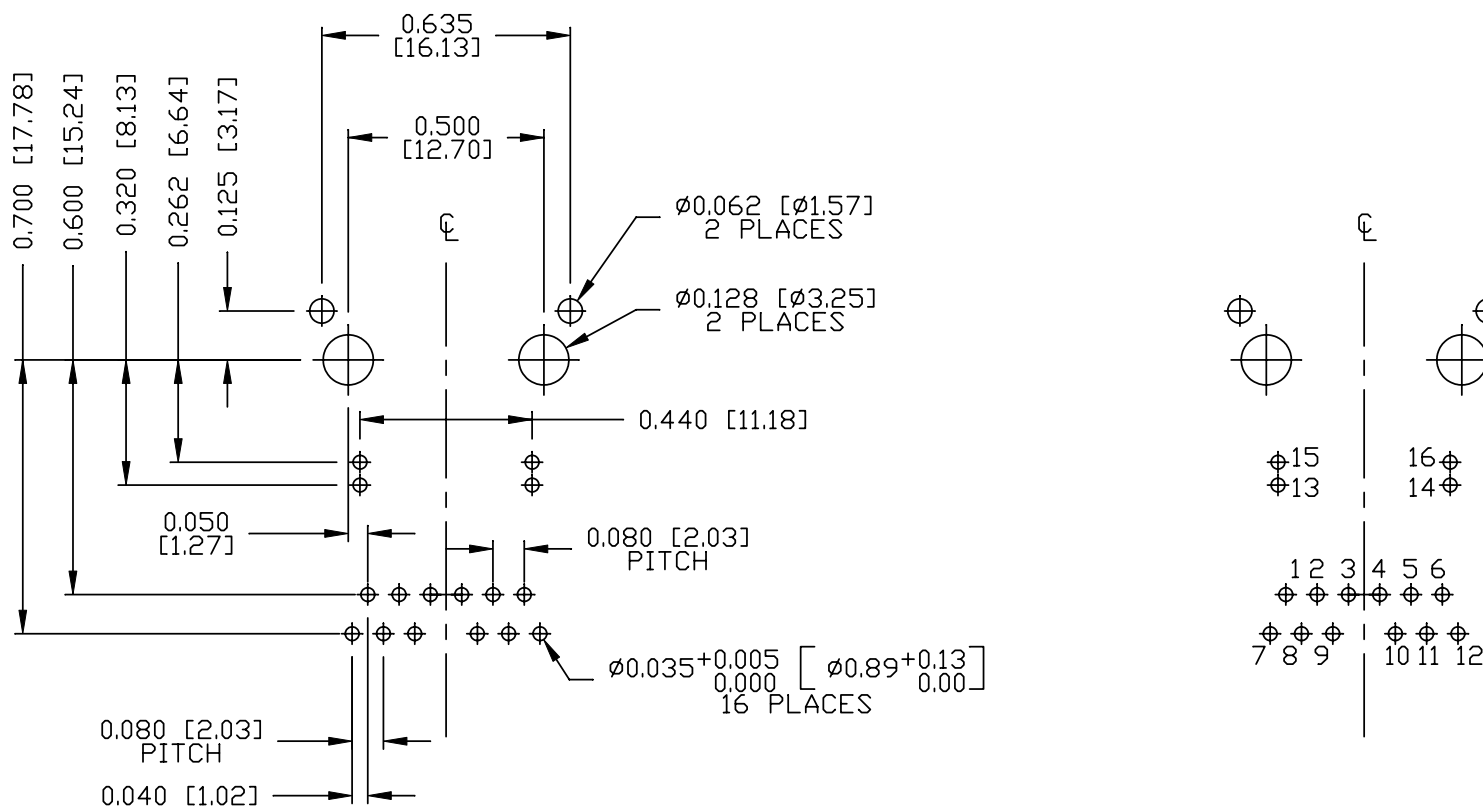
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
					UNIT : INCH [mm]	REV. : A
CHEN BILL	12-04-10	gigabit MagJack® (PoEp, Extended Temperature) 0816-1X1T-GH-F PATENTED	08161X1TGH-F FILE NAME 08161X1TGH-F_A.DWG	.X	SCALE : N/A	SIZE : A4
DRAWN BY	DATE			.XX		PAGE : 3
XIAN JIAXIN	12-04-10			.XXX		

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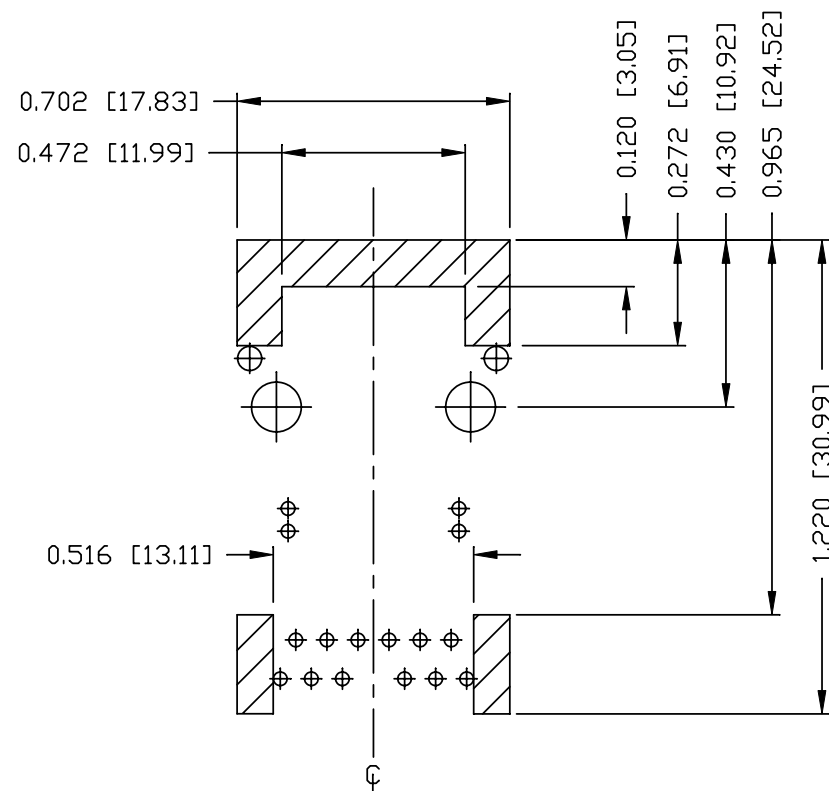
RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW



ORIGINATED BY	DATE	TITLE gigabit MagJack® (PoEp, Extended Temperature)	PART NO. / DRAWING NO. 08161X1TGH-F	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET	
CHEN BILL	12-04-10			TOL. IN INCH		UNIT : INCH [mm]	REV. : A		
DRAWN BY	DATE		0816-1X1T-GH-F PATENTED	FILE NAME 08161X1TGH-F_A.DWG	.X		SCALE : N/A		SIZE : A4
XIAN JIAXIN	12-04-10	.XX			±0.004				PAGE : 4
		.XXX							

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NOTES

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

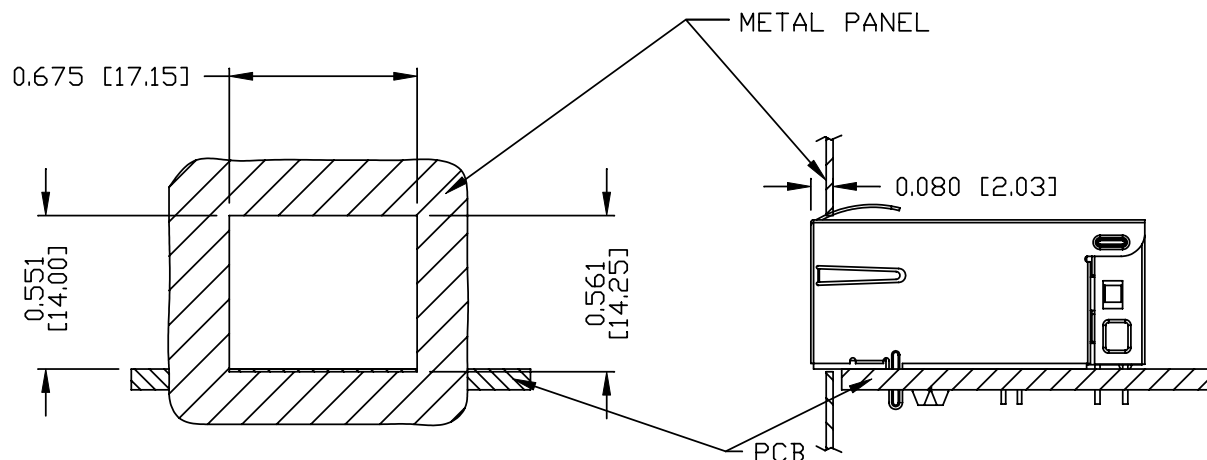
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DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	12-04-10		08161X1TGH-F_A.DWG	.XX		.XXX	±0.004	

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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-F1 (TOP)
0200-9999-F2 (BOTTOM)

PACKING QUANTITY : 40 PCS FINISHED GOODS PER TRAY
10 TRAYS (400 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		 COMPONENTS FOR A CONNECTED PLANET
				TOL. IN INCH		UNIT : INCH [mm]	REV. : A	
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DRAWN BY	DATE			.XX				
XIAN JIAXIN	12-04-10			.XXX	±0.004		PAGE : 6	