

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

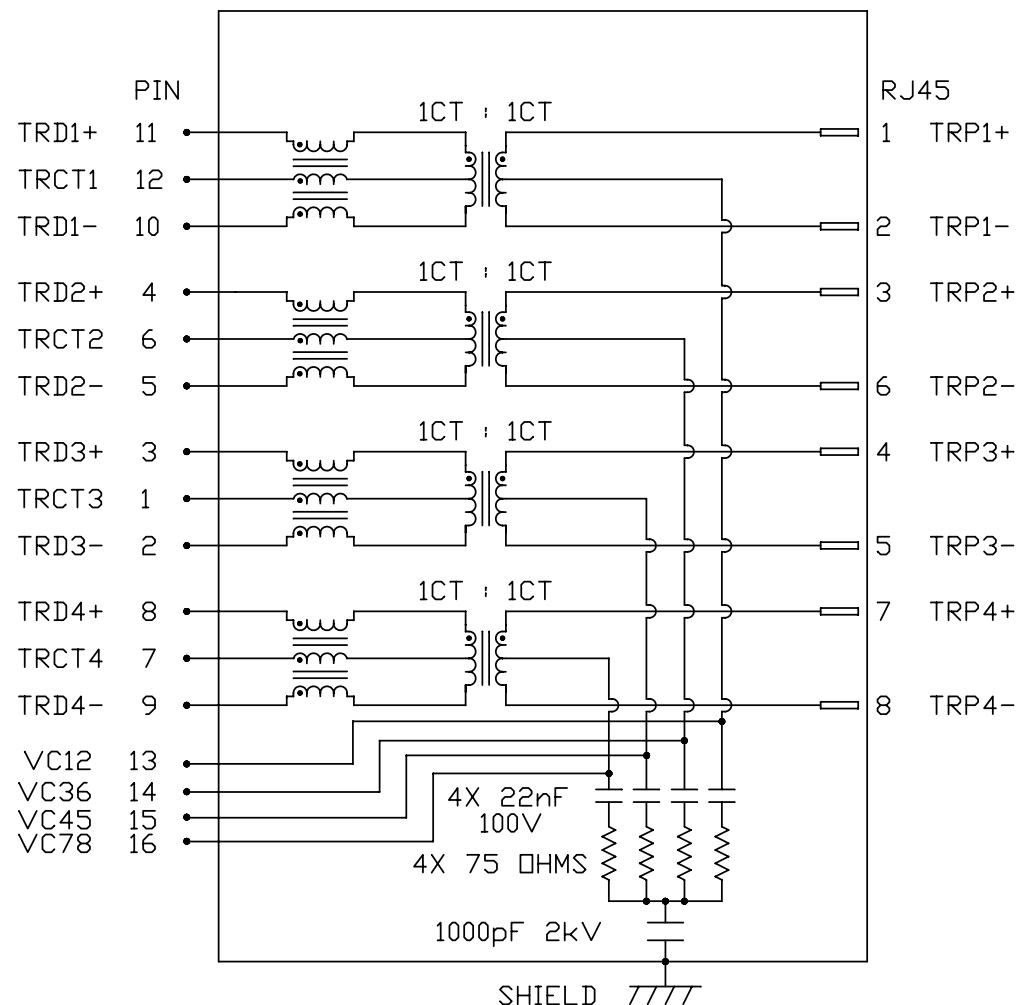
BALANCED DC LINE CURRENT 720 mA MAX. @ 57 VDC CONTINUOUS

1.2 A MAX. @ 57 VDC FOR 200 MILLISECONDS

OPERATING TEMPERATURE:

-40°C TO 85°C

SCHEMATIC

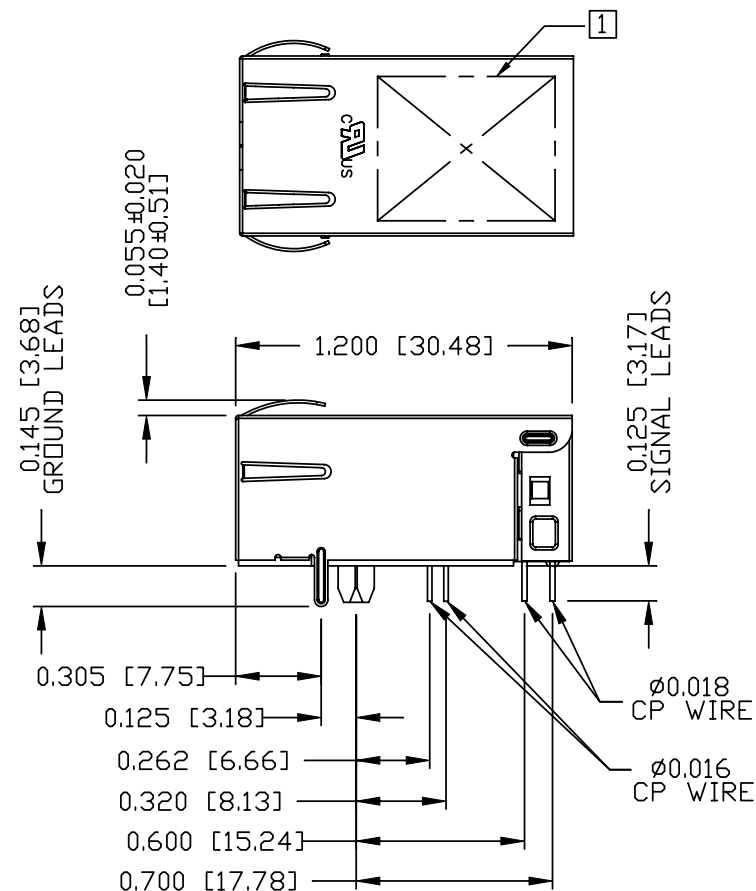
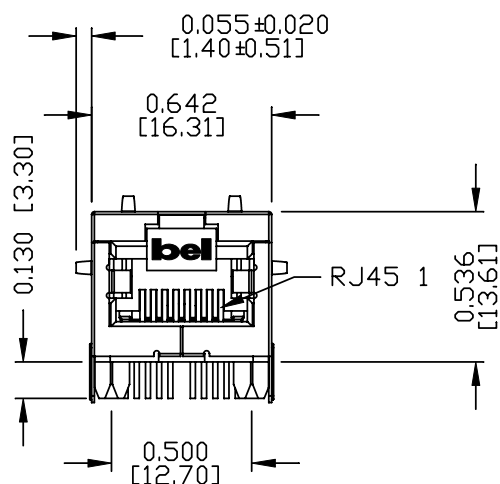


ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
CHOW WANGCHUNG	12-04-10	gigabit MagJack® (PoE, Extended Temperature)	08161X1TGH-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : A
DRAWN BY	DATE	0816-1X1T-GH-F	FILE NAME	.X	SCALE : N/A	SIZE : A4
LEE WEIDE	12-04-10	PATENTED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

1. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC
2. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
3. 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		

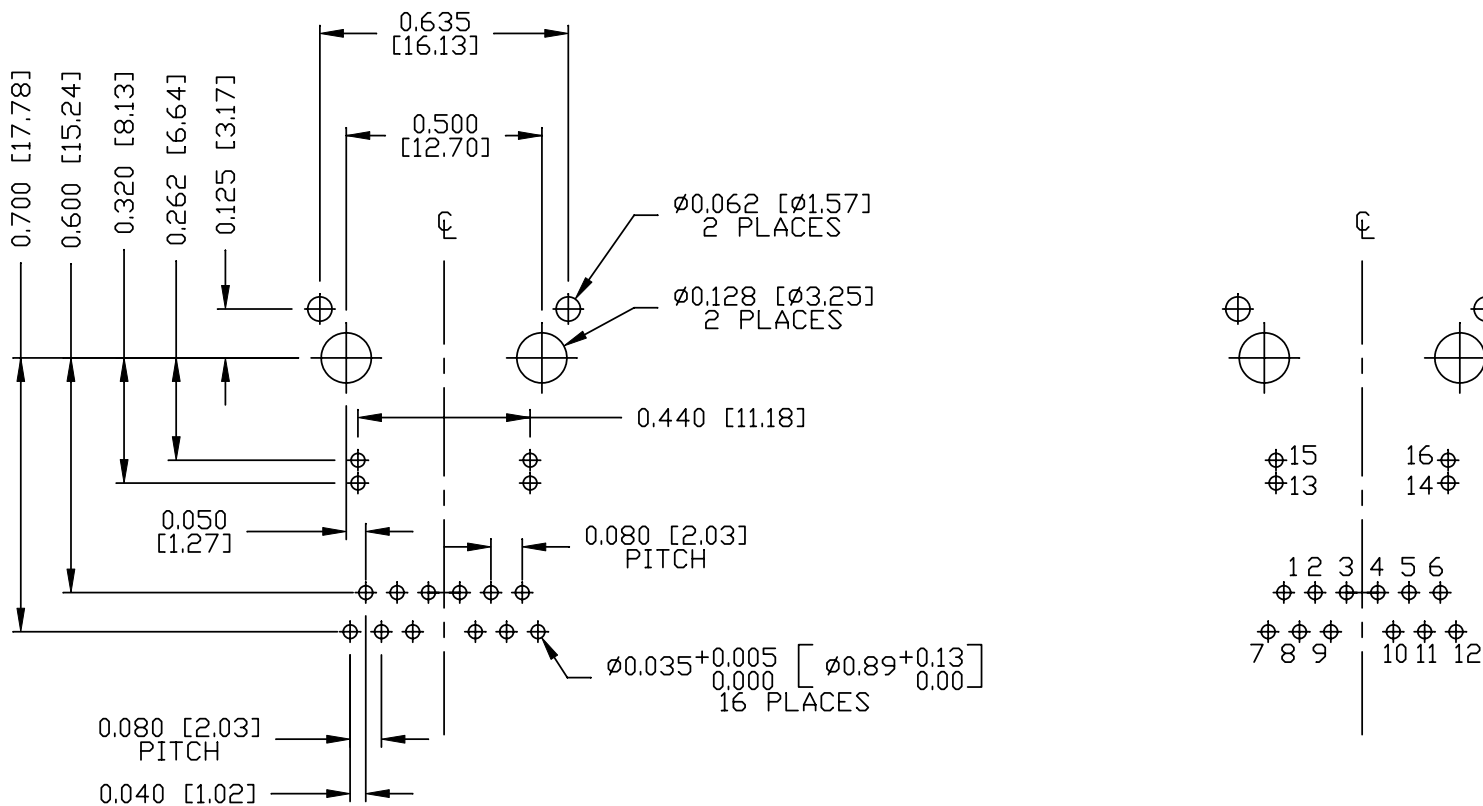
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RECOMMENDED PCB FOOTPRINT

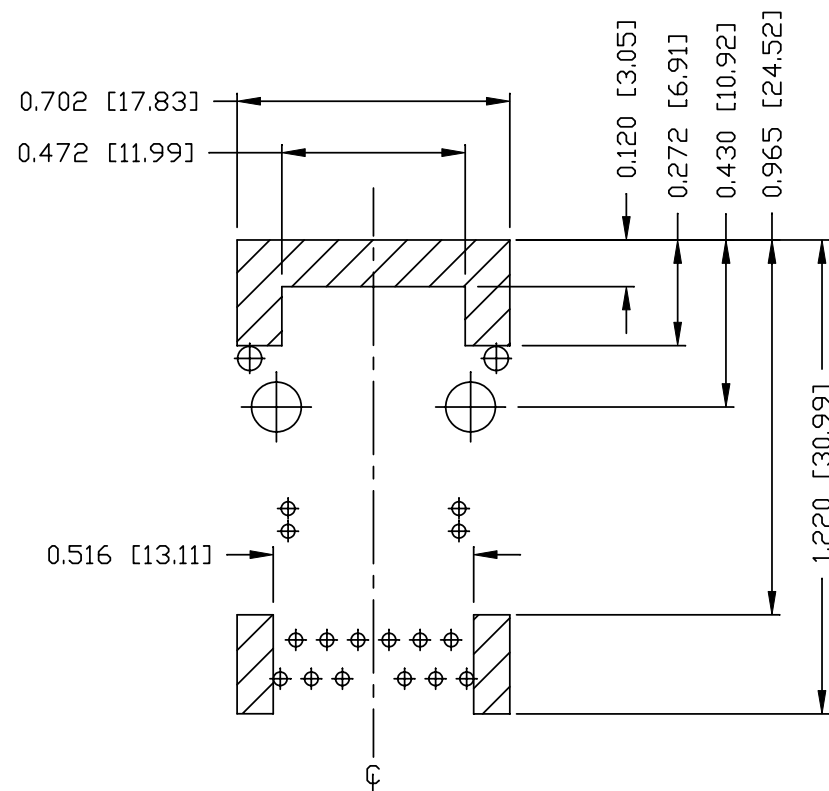
COMPONENT SIDE VIEW



ORIGINATED BY	DATE	TITLE gigabit MagJack® (PoEp, Extended Temperature) 0816-1X1T-GH-F PATENTED	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		FILE NAME 08161X1TGH-F_A.DWG	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	12-04-10			.XX		±0.004		
		.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.

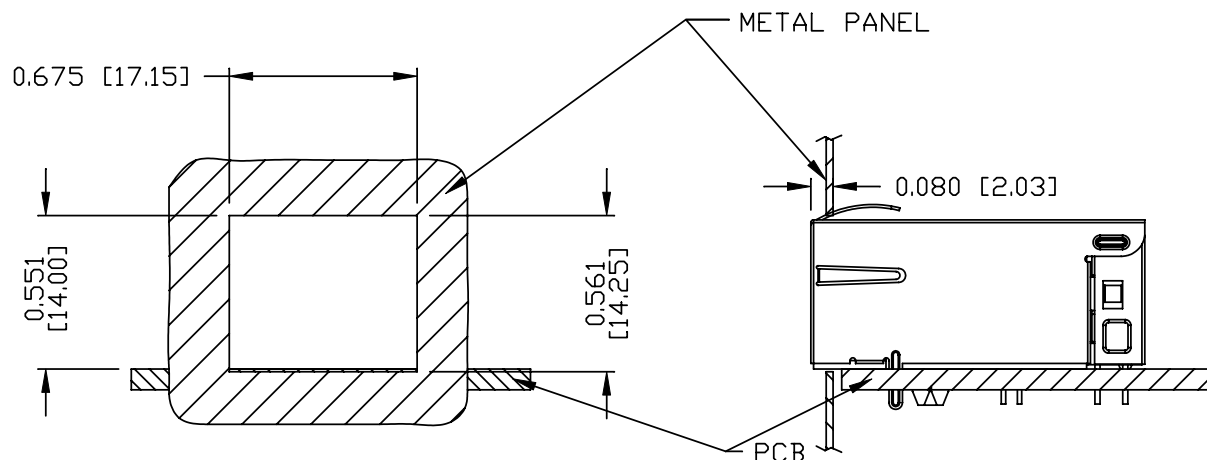
ORIGINATED BY	DATE	TITLE gigabit MagJack® (PoEp, Extended Temperature) 0816-1X1T-GH-F PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS ON A CONNECTED PLANET
CHEN BILL	12-04-10		08161X1TGH-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	12-04-10		08161X1TGH-F_A.DWG	.XX			PAGE : 5	
				.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	
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				
XIAN JIAXIN	12-04-10			.XXX	±0.004		PAGE : 6	