

ELECTRICAL CHARACTERISTICS @ 25°C

Turns Ratio

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

DCL @ 100kHz/100mVRMS

8mA DC BIAS	350µH MIN.
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INS. LOSS

100kHz TO 125MHz	-1.2 dB MAX
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RET. LOSS (MIN)

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

CROSS TALK:

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

1MHz - 30MHz	-35 dB MIN
30MHz - 80MHz	-24 dB MIN
80Hz - 100MHz	-25 dB 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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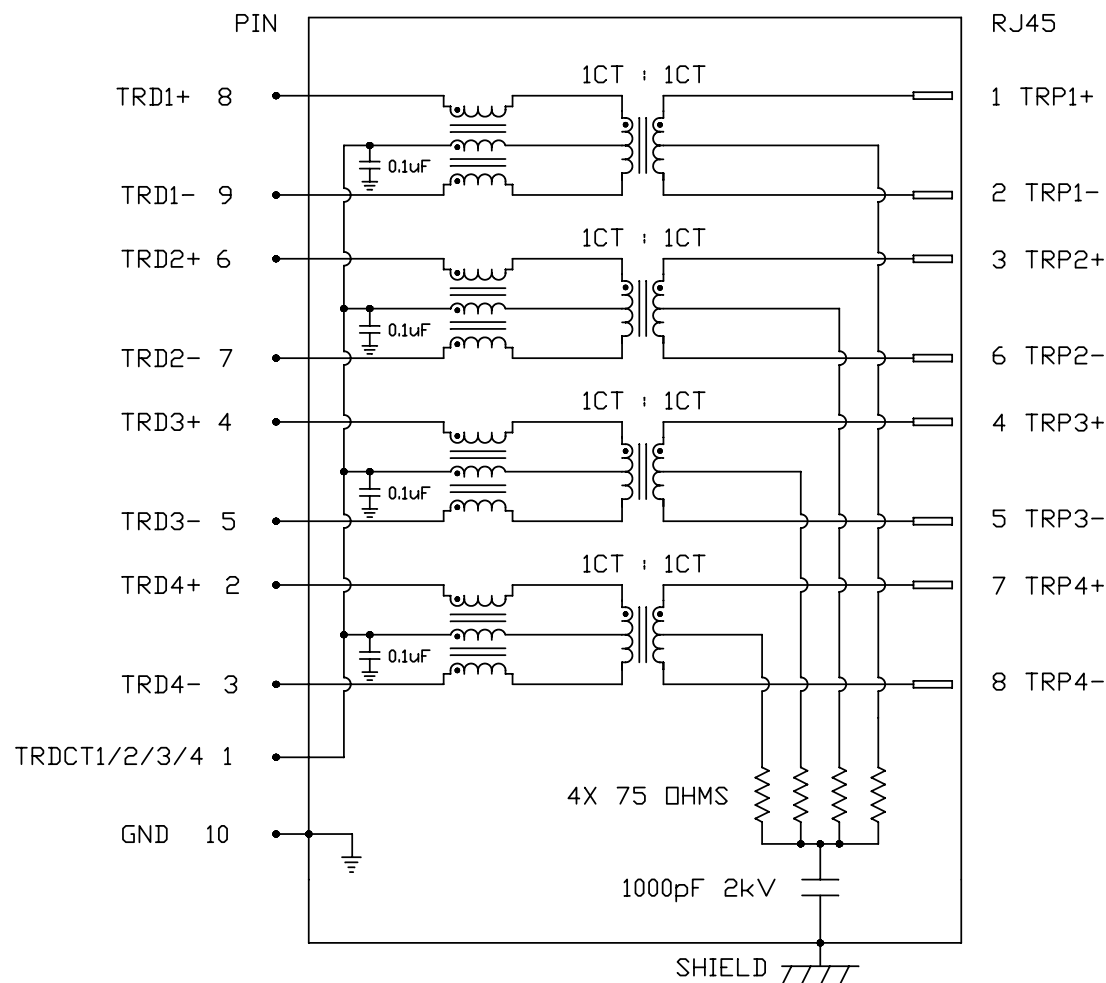
HIPOT (Isolation Voltage):

1500 Vrms

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

OPERATING TEMPERATURE RANGE: -40 TO +85°C

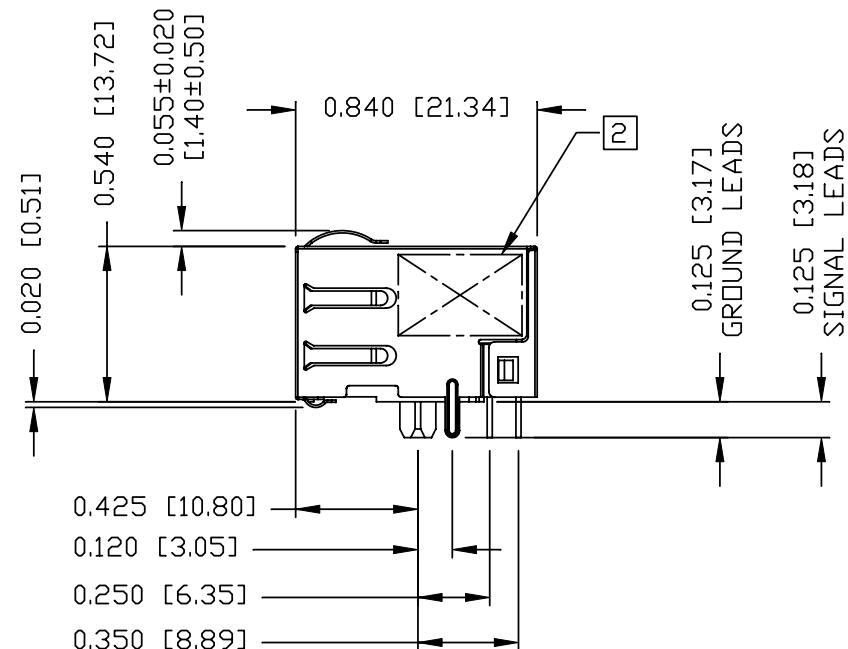
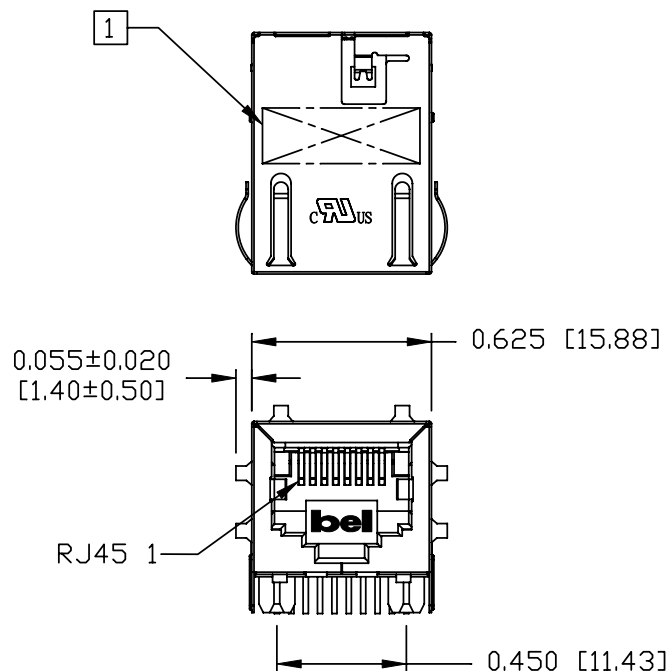
SCHEMATIC



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
CHOW WANCHUNG	06-30-09	Gigabit MagJack®	SI-61021-F	.X	UNIT : INCH [mm]
DRAWN BY	DATE	(Ext,temp)	FILE NAME	.XX	SCALE : N/A
LI YONGFENG	06-30-09	PATENTED	SI-61021-F_A.DWG	.XXX	SIZE : A4
					PAGE : 2

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RoHS
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NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACTS PLATING: 50 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)

[1] MARK PART WITH MFG PART NUMBER (SI-61021-F), DATE CODE AND PATENTED.

[2] MARK PART WITH MFG LOGO, MFG NAME.

3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS

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

5. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

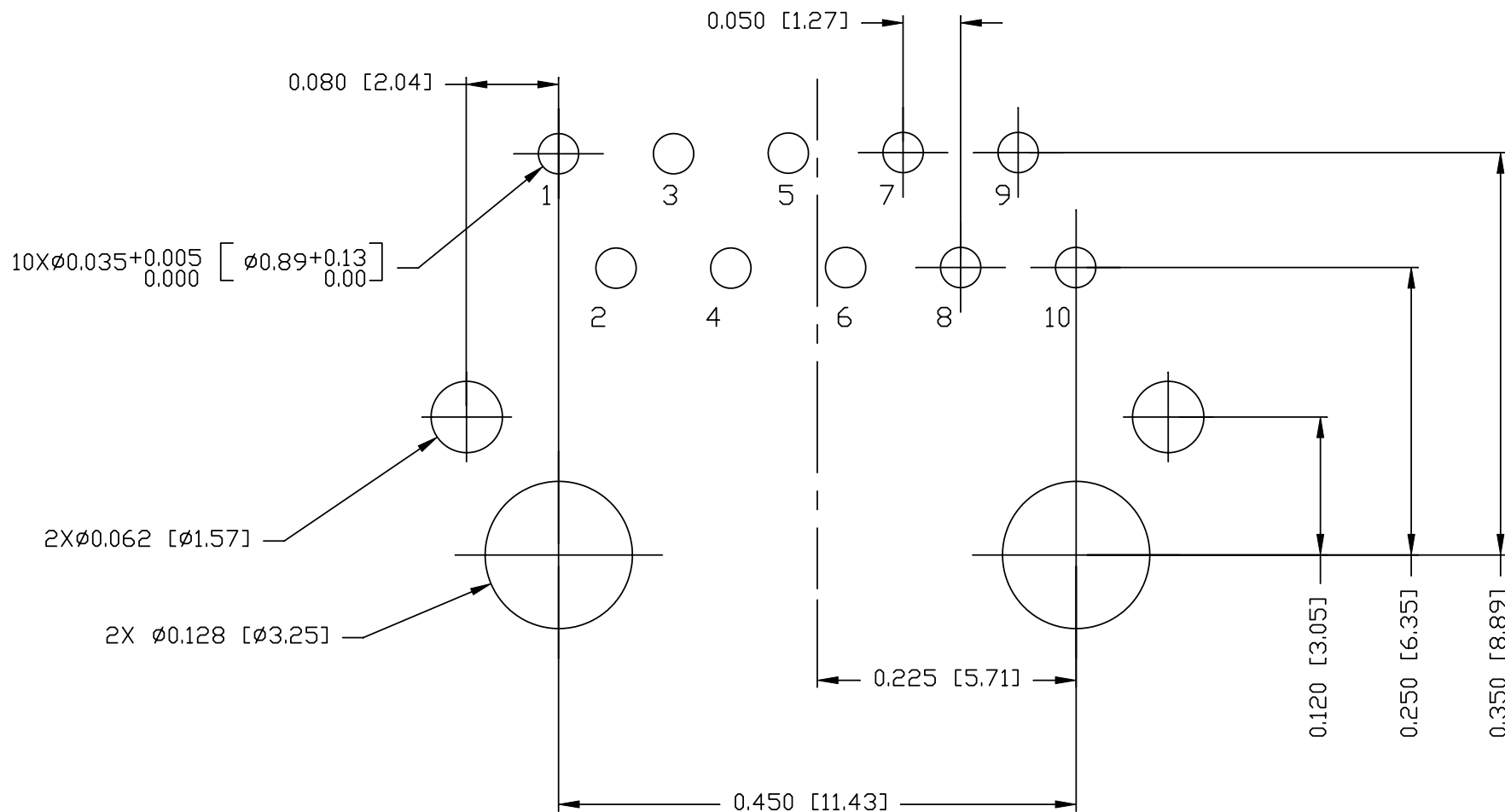
c **UL** US UL RECOGNIZED - FILE #E132408.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
BILL CHEN	06-30-09	Gigabit MagJack® (Ext,temp) PATENTED	SI-61021-F	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
SALLY LUD	06-30-09		SI-61021-F_A.DWG	.XXX ±0.010	PAGE : 3

bel
COMPONENTS FOR A
CONNECTED
PLANET

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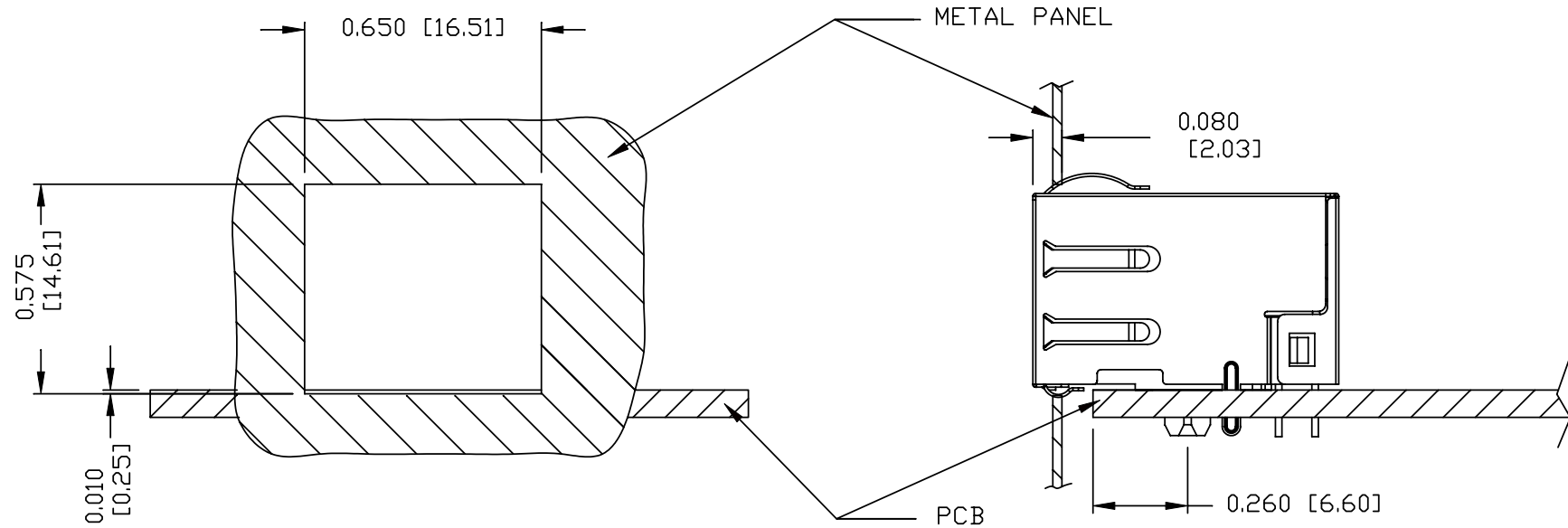
RECOMMENDED PCB FOOTPRINT
 COMPONENT SIDE VIEW

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DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	SIZE : A4
SALLY LUO	06-30-09		SI-61021-F_A.DWG	.XXX ±0.004		PAGE : 4

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 COMPONENTS FOR A
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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 : 0200-9999-Q7 (TOP)

0200-9999-Q8 (BOTTOM)

PACKING QUANTITY : 80 PCS FINISHED GOODS PER TRAY

10 TRAYS (800 PCS 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		FILE NAME	.X	SCALE : N/A
SALLY LUD	06-30-09	(Ext,temp)	SI-61021-F_A.DWG	.XX	SIZE : A4
		PATENTED		.XXX ±0.004	PAGE : 5