

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

LED1 POLARITY			LED2 POLARITY		
PIN 7	PIN 8	COLOR	PIN 9	PIN 10	COLOR
-	+	YELLOW	-	+	GREEN

RoHS
2002/95/EC



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 1

RX 1CT : 1

QCL @ 100kHz/100mVRMS

8mA DC BIAS 350μH MIN.

INS. LOSS

1MHz TO 100MHz -1.0 dB MAX

RET. LOSS (MIN)

1MHz-30MHz -18 dB

30MHz-60MHz -18+20LOG(F/30MHz) dB

60MHz-80MHz -12 dB

CROSS TALK (TX - RX)

100kHz-100MHz -35 dB MIN

CM TO CM REJ

100kHz-100MHz -30 dB MIN

CM TO DM REJ

100kHz-100MHz -40 dB MIN

HIPOT (Isolation Voltage):

1500 Vrms

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

LED 1

VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

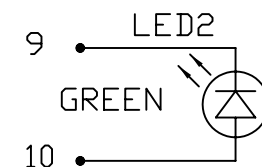
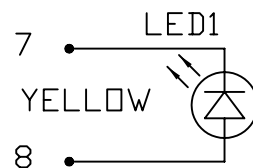
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

USB ELECTRICAL:

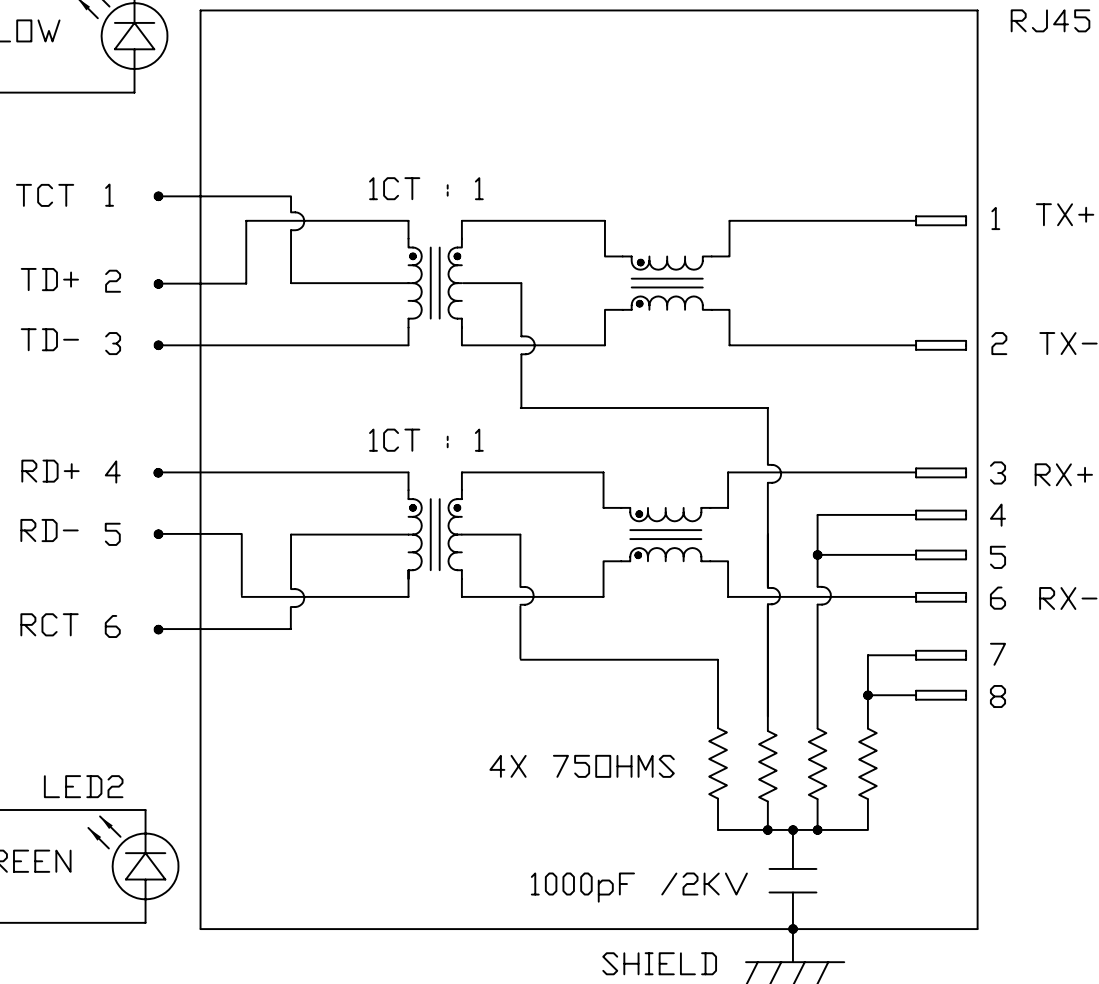
INSULATION RESISTANCE: 1000 MEGAΩ (MIN)




CONTACT RESISTANCE: 25 MILLIΩ (MAX)

DIELECTRIC WITHSTANDING: 750 VAC



SCHEMATIC

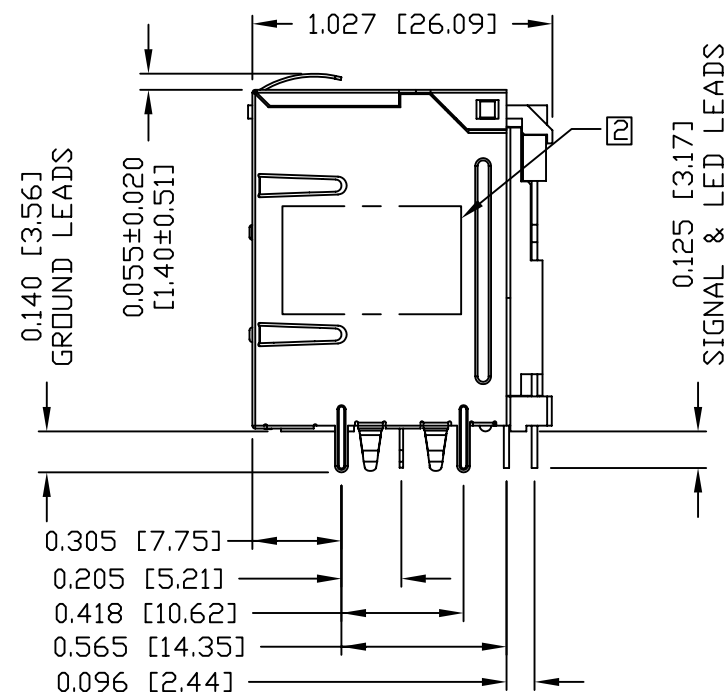
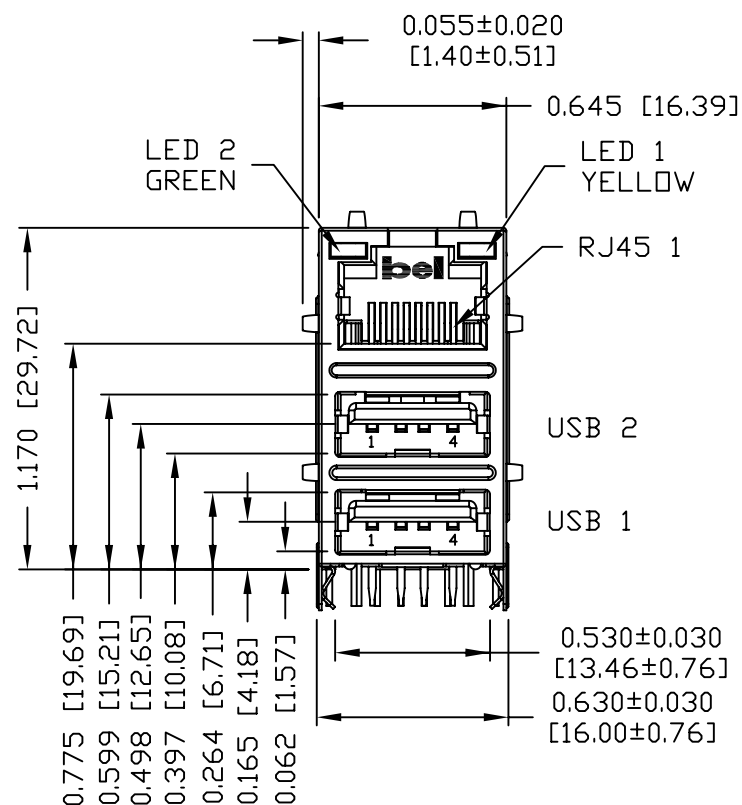


ORIGINATED BY	DATE	TITLE MagJack® Combo (Extended Temperature and CM Termination) PATENTED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
CHOW WANGCHUNG	10-29-09		08C2-1A1T-36	TOL. IN INCH		UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
LEE WEIDE	10-29-09		08C2-1A1T-36_A.DWG	.XX		PAGE : 2		
			.XXX					

bel
COMPONENTS FOR A
CONNECTED
PLANET



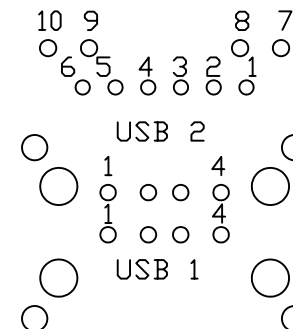
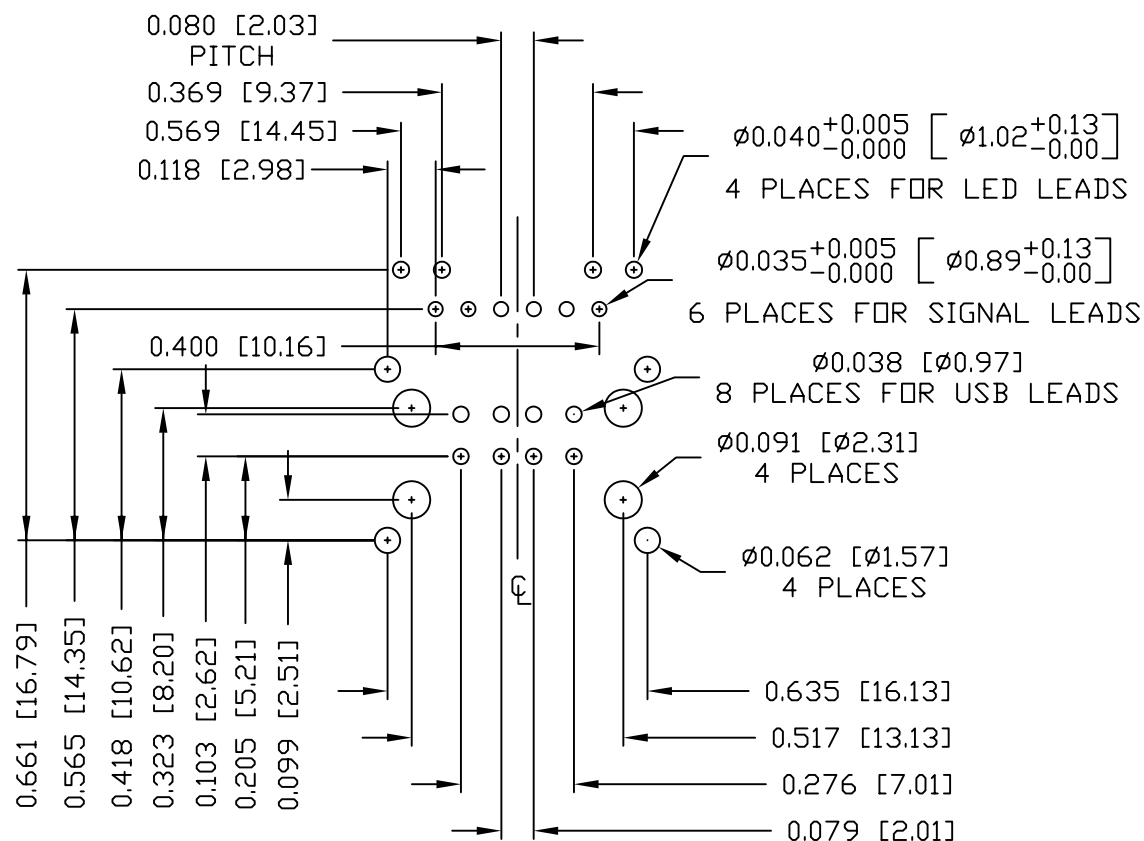
MECHANICAL SPECIFICATION



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
LIU QIN	10-29-09	MagJack® Combo (Extended Temperature and CM Termination) PATENTED	08C2-1A1T-36	.X	UNIT : INCH [mm]
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A
XIAN JIAXIN	10-29-09		08C2-1A1T-36_A.DWG	.XXX	±0.010
					REV. : A
					SIZE : A4
					PAGE : 3



Recommended PCB footprint
Component Side



RJ45 MECHANICAL:
PLASTIC HOUSING:
CONTACT PLATING:
PINS:
METAL SHIELD:

THERMOPLASTIC PBT OR EQUIVALENT.
FLAMMABILITY RATING UL 94V-0
30 MICRO-INCH HARD GOLD PLATING
TIN-COATED COPPER WIRE, DIA 0.018 INCH.
NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)




USB MECHANICAL:
MATING FORCE:
UNMATING FORCE:
CONTACT:

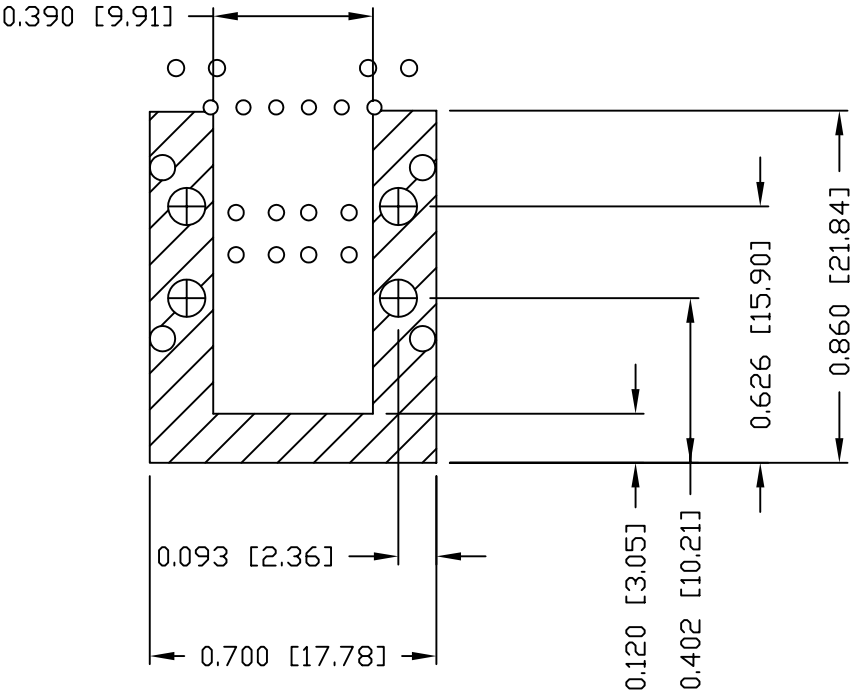
35 NEWTONS MAXIMUM
10 NEWTONS MINIMUM
PHOSPHOR BRONZE
30 MICRO-INCH GOLD PLATING ON CONTACT
AREA AND TIN ON SOLDER TAIL.



UL RECOGNIZED - FILE #E196366 AND E169987.




1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER AND DATE CODE.
2. MARKING "PATENTED".
3. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.
4. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
5. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 5,736,910.

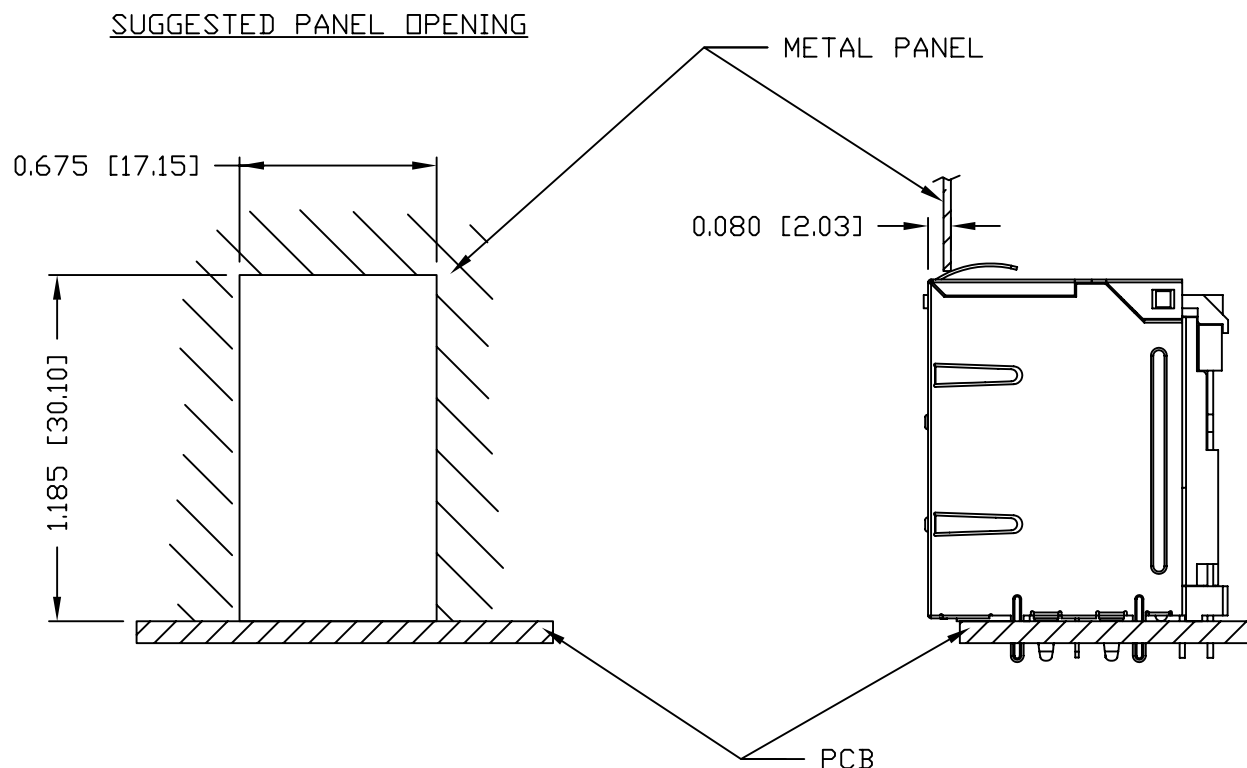
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DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	10-29-09		08C2-1A1T-36_A.DWG	.XX		⌀	PAGE : 4	
			.XXX	±0.004				



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	10-29-09		08C2-1A1T-36_A.DWG	.XX			PAGE : 5	
			.XXX	±0.004				



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 (420 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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LIU QIN	10-29-09 <td>08C2-1A1T-36</td> <td colspan="2"></td> <td>UNIT : INCH [mm]</td> <td>REV. : A</td>		08C2-1A1T-36			UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN	10-29-09		08C2-1A1T-36_A.DWG	.XX			PAGE : 6	
				.XXX	±0.004			

