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



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

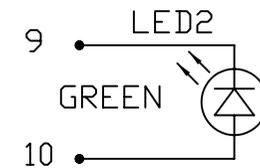
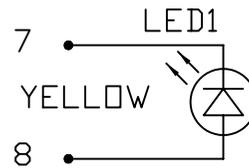
VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

LED 2

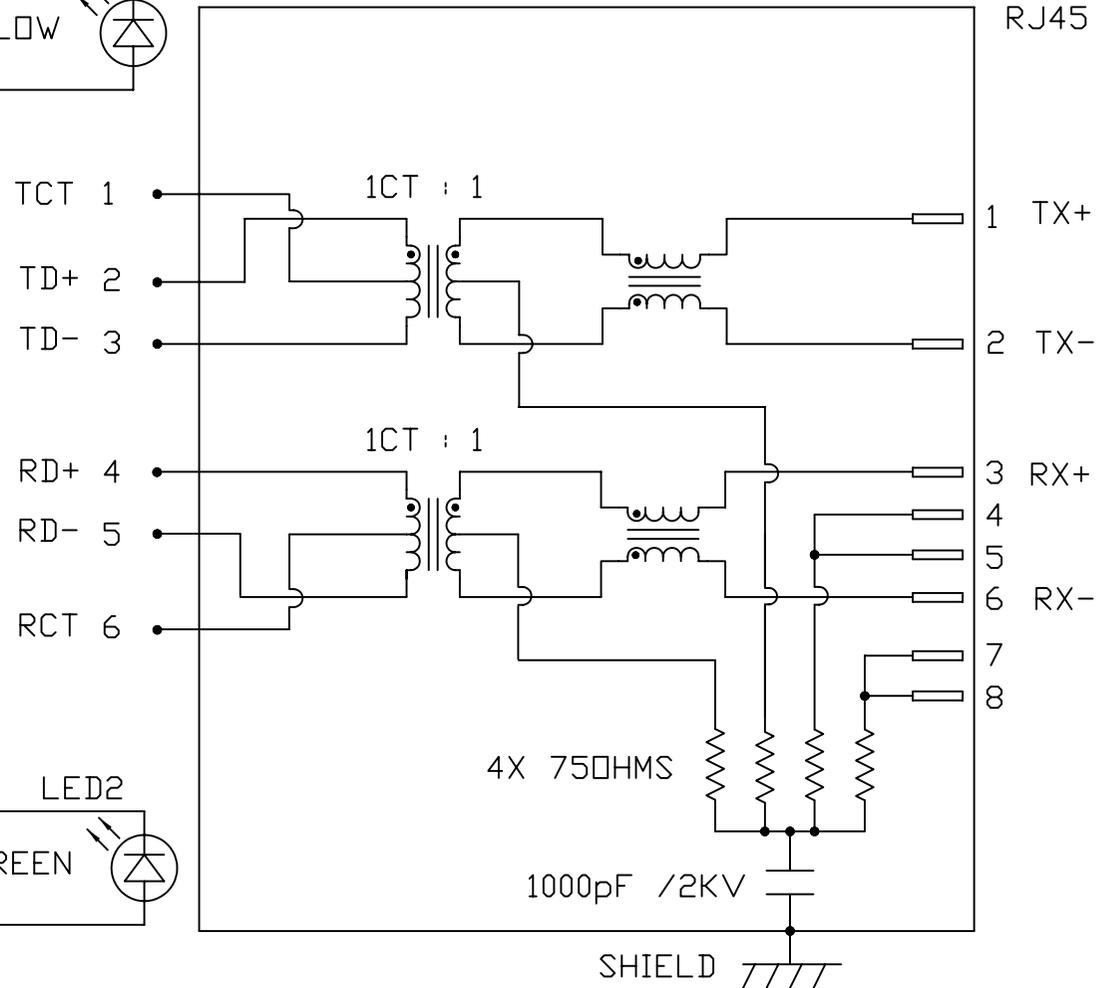
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

USB ELECTRICAL:

INSULATION RESISTANCE: 1000 MEGAΩ (MIN)
CONTACT RESISTANCE: 25 MILLIΩ (MAX)
DIELECTRIC WITHSTANDING: 750 VAC



SCHEMATIC



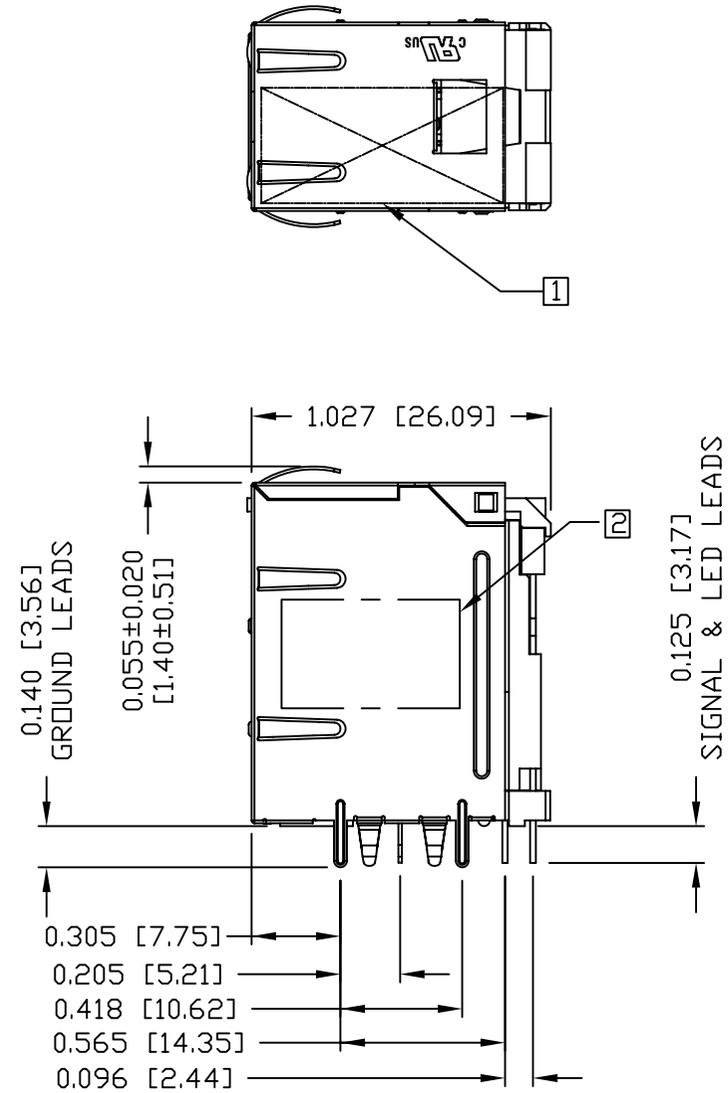
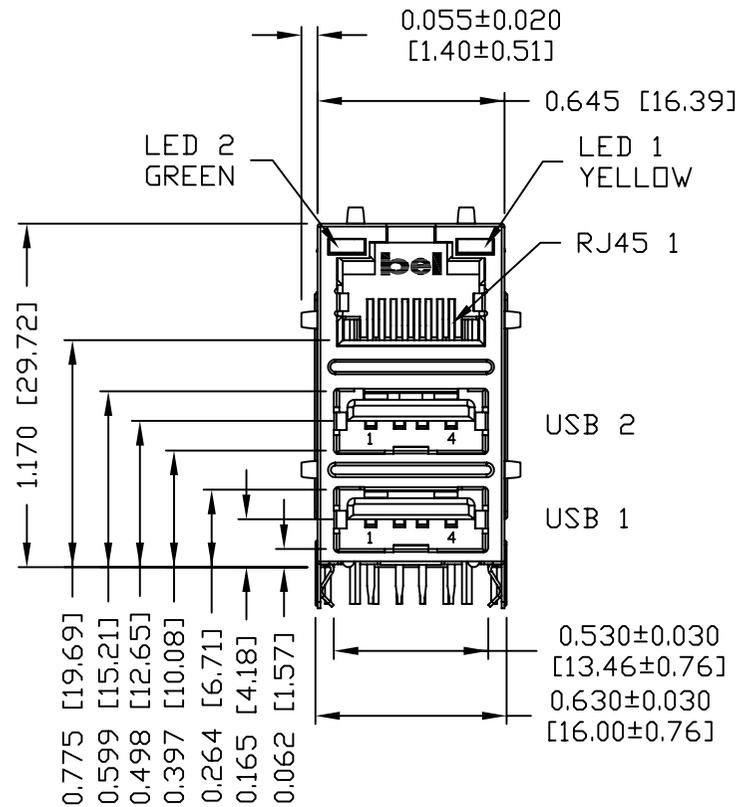
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
CHOW WANGCHUNG	10-29-09	MagJack® Combo (Extended Temperature and CM Termination) PATENTED	08C2-1A1T-36	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE			.XX	SCALE : N/A SIZE : A4
LEE WEIDE	10-29-09			.XXX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



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MECHANICAL SPECIFICATION



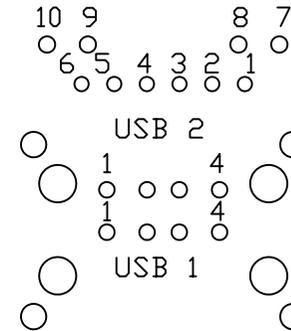
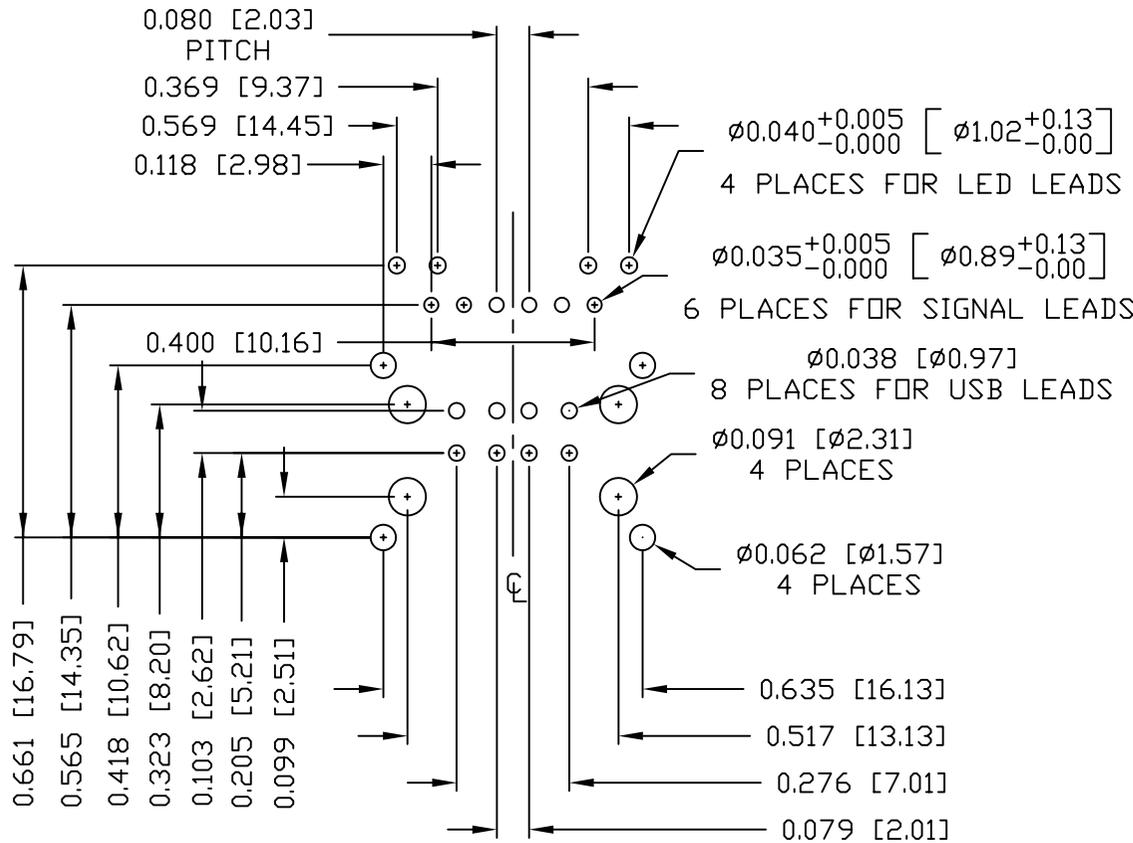
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
LIU QIN	10-29-09	MagJack® Combo (Extended Temperature and CM Termination) PATENTED	08C2-1A1T-36	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
XIAN JIAXIN	10-29-09	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



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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.



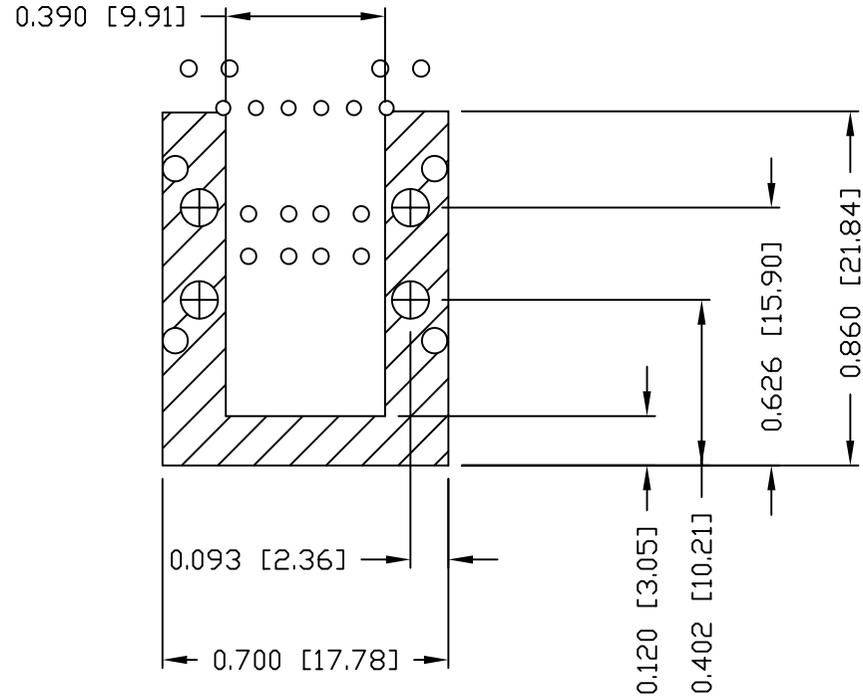
UL RECOGNIZED - FILE #E196366 AND E169987.

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

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



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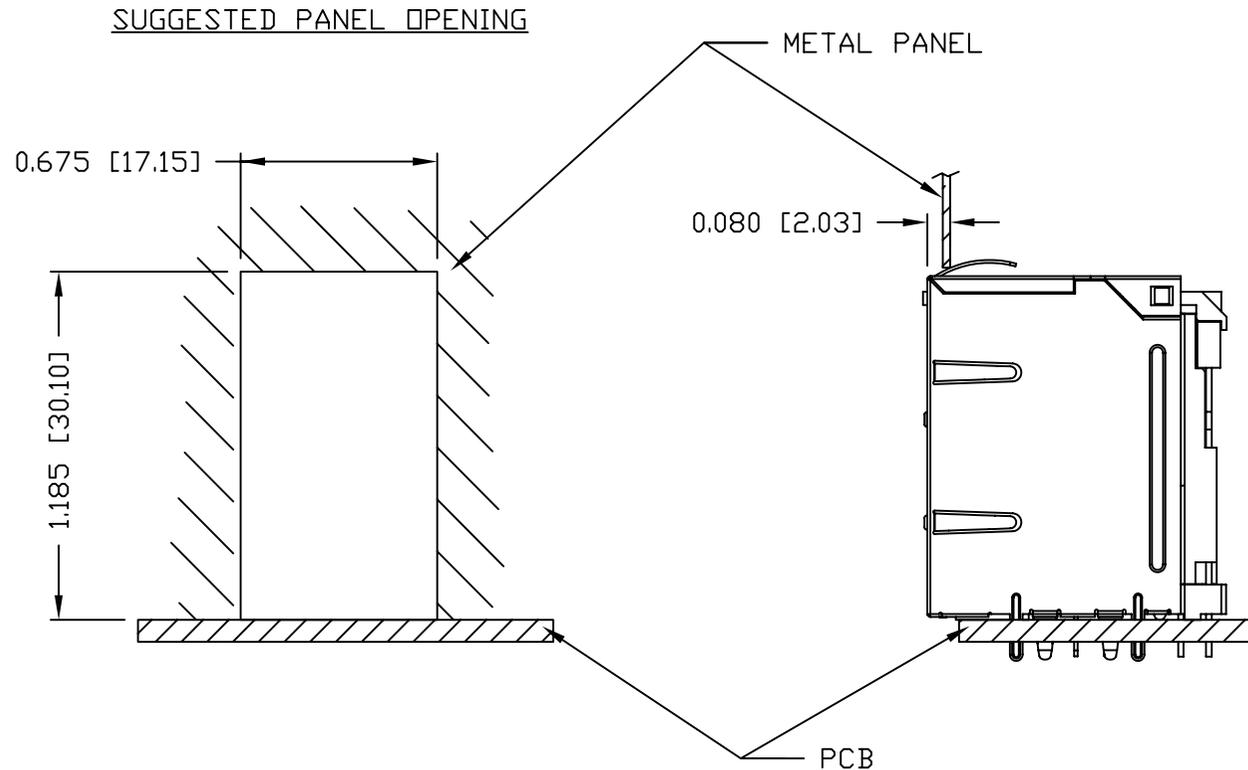
NOTES

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

ORIGINATED BY LIU QIN	DATE 10-29-09	TITLE MagJack® Combo (Extended Temperature and CM Termination) PATENTED	PART NO. / DRAWING NO. 08C2-1A1T-36		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
			FILE NAME 08C2-1A1T-36_A.DWG		.X .XX .XXX	±0.004	UNIT : INCH [mm]	REV. : A
DRAWN BY XIAN JIAXIN	DATE 10-29-09						SCALE : N/A	SIZE : A4
								PAGE : 5



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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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				.X	.XX	UNIT : INCH [mm]	REV. : A
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DRAWN BY	DATE		FILE NAME	.XX			PAGE : 6
XIAN JIAXIN	10-29-09		08C2-1A1T-36_A.DWG	.XXX	±0.004		



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

[08C2-1A1T-36](#)