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ELECTRICAL CHARACTERISTICS @ 25°C

#### LED1 POLARITY LED2 POLARITY PIN 8 PIN 7 COLOR PIN 9 PIN 10 COLOR DRANGE 'ELLOW + GREEN

# SCHEMATIC



	-   +	ΥI
TURNS RATIO		
TX	1CT : 1	
RX	1CT : 1	
□CL @ 100kHz/100mVRMS		
8mA DC BIAS	350µH MIN.	
INS. LOSS		
1MHz T□ 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) -35 dB MIN 100kHz-100MHz

CM TO CM REJ -30 dB MIN

100kHz-100MHz

CM TO DM REJ -40 dB MIN

100kHz-100MHz

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

LED 2

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

TITLE

DRANGE 2.0V TYP.

AD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP. DRANGE 610nm TYP.

7 LED1 YELLOW 8		RJ45
TCT 1 ←	1CT : 1	1 TX+
TD- 3 ←		2 TX-
RD+ 4 • RD- 5 • RCT 6 • GREEN LED2	1CT : 1  ORANGE 4X 750HMS 1000pF 2KV	3 RX+ 4 5 6 RX- 7 8
	SHIELD 7777	

USB ELECTRICAL: INSULATION RESISTANCE: 1000 MEG  $\Omega$  (MIN) CONTACT RESISTANCE: 25 MILLI Ω (MAX) DIELECTRIC WITHSTANDING: 750 VAC

ORIGINATED BY	DATE
CHOW WANCHUNG	2012-07-09
DRAWN BY	DATE

MagJack® Combo (CM Termination) PATENTED

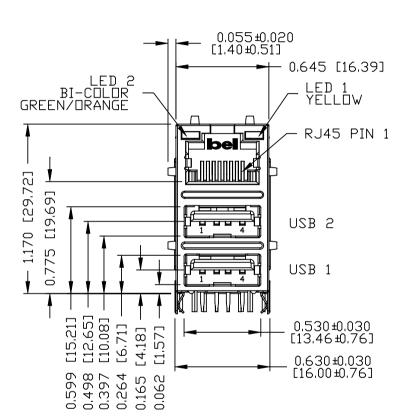
PART NO. / DRAWING NO.	STANDA	RD DIM.	[ ] METRIC DIM. AS REFERENCE				
08C2-1X1T-36	TOL. I	N INCH	UNIT : INCH [mm]	REV. : C			
FILE NAME	.X		SCALE: N/A	SIZE: A4			
08C2-1X1T-36_C.DWG	.XXX		$\bigoplus \bigoplus$	PAGE: 2			

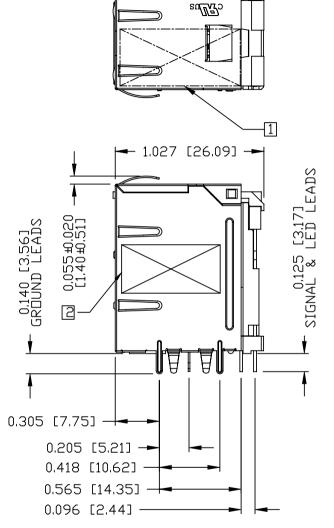


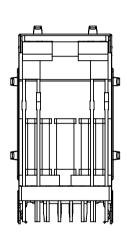
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## MECHANICAL SPECIFICATION









ORIGINATED BY	DATE	TITLE
ANTON LIAO	2012-07-09	
DRAWN BY	DATE	
HE ZHEN	2012-07-09	

MagJack® Combo (CM Termination) PATENTED

PART NO. / DRAWING NO. STANDARD DIM. 08C2-1X1T-36 FILE NAME .XX 08C2-1X1T-36\_C.DWG .XXX

[ ] METRIC DIM. AS REFERENCE UNIT : INCH [mm] REV. : SCALE: N/A SIZE: A4  $\oplus$ PAGE: 3

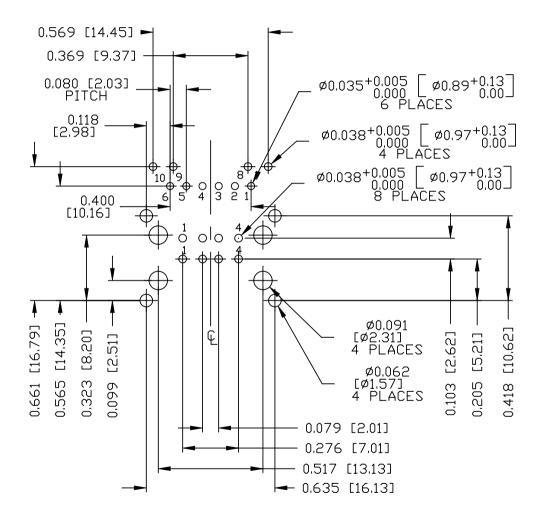


TOL. IN INCH

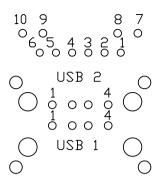
±0.010

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## Recommended PCB footprint Component Side



TITLE





RJ45 MECHANICAL:

PLASTIC HOUSING:

THERMOPLASTIC PBT OR EQUIVALENT. FLAMMABILITY RATING UL 94V-0

CONTACT PLATING:

30 MICRO-INCH HARD GOLD PLATING

OR EQUIVALENT.

PINS:

TIN-COATED COPPER WIRE, DIA 0.018 INCH.

METAL SHIELD:

NICKEL PLATED ON COPPER ALLOY.

(ALL GROUND LEADS ARE SOLDER DIPPED)

USB MECHANICAL: MATING FORCE: UNMATING FORCE: CONTACT:

35 NEWTONS MAXIMUM 10 NEWTONS MINIMUN PHOSPHOR BRONZE

30 MICRO-INCH GOLD PLATING ON CONTACT

AREA AND TIN ON SOLDER TAIL.

USUL RECOGNIZED - FILE #E196366 AND E169987.

- MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER AND DATE CODE.
- "PATENTED" MARKING.
- 3. THE PRODUCT IS ROHS COMPLIANT.
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
- 5. THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 5,736,910.

ORIGINATED BY	DATE		
ANTON LIAO	2012-07-09		
DRAWN BY	DATE		
HE ZHEN	2012-07-09		

MagJack® Combo (CM Termination) PATENTED

PART NO. / DRAWING NO. 08C2-1X1T-36 FILE NAME

08C2-1X1T-36 C.DWG

STANDARD DIM. TOL. IN INCH X. .XX

±0.004

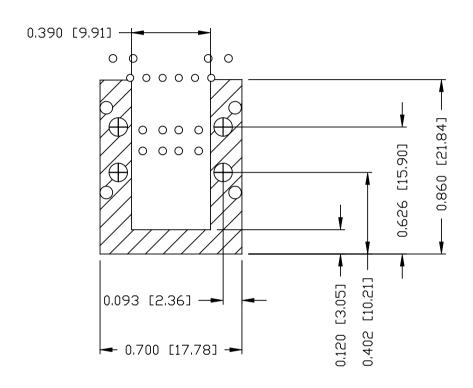
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[ ] METRIC DIM. AS REFERENCE UNIT: INCH [mm] REV. : C SCALE: N/A

SIZE: A4 PAGE: 4

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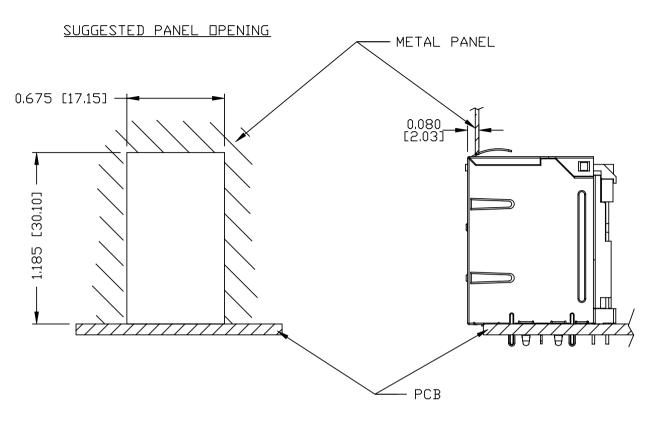


# NOTES

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

ORIGINATED BY ANTON LIAO	<b>DATE</b> 2012-07-09	•	MagJack® Combo (CM Termination)	<b>PART NO. / DRAWING NO.</b> 08C2-1X1T-36		ARD DIM. N INCH	[ ] METRIC DIM. AS UNIT: INCH [mm]	
DRAWN BY	DATE	PATEN		FILE NAME	.XX		SCALE: N/A	SIZE: A4
HE ZHEN	2012-07-09		.,	08C2-1X1T-36_C.DWG	.XXX	±0.004	$\bigoplus                   $	PAGE: 5
DC002(2)081111			This document is	electronically generated. This is a co	ntrolled cop	y if used int	ternally	

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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)

ORIGINATED BY	DATE		PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS	REFERENCE
ANTON LIAO	2012-07-09	MagJack® Combo (CM Termination)	08C2-1X1T-36	TOL. IN INCH	UNIT : INCH [mm]	REV. : C
DRAWN BY	DATE	DATENTED	FILE NAME	.X .XX	SCALE: N/A	SIZE: A4
HE ZHEN	2012-07-09	FAIENIED	08C2-1X1T-36_C.DWG	.XXX ±0.004		PAGE: 6

