

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.



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 1
RX 1CT : 1

CL @ 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 -35 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms

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

LED 1

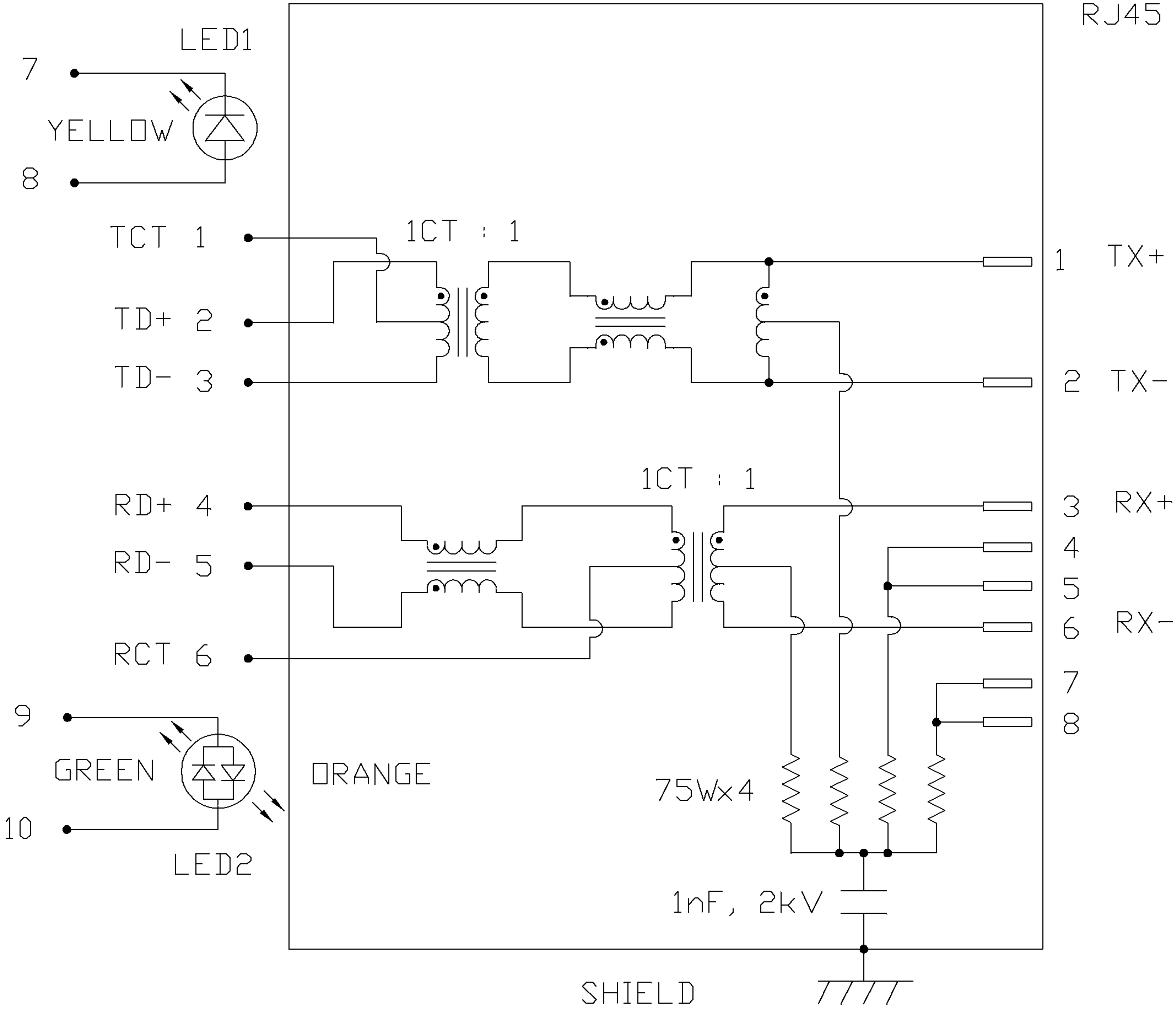
VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.
λ D (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
ORANGE 2.0V TYP.
λ D (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.
ORANGE 610nm TYP.

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

SCHEMATIC



USB ELECTRICAL:
INSULATION RESISTANCE: 1000 MEGA W (MIN)
CONTACT RESISTANCE: 25 MILLI W (MAX)
DIELECTRIC WITHSTANDING: 750 VAC

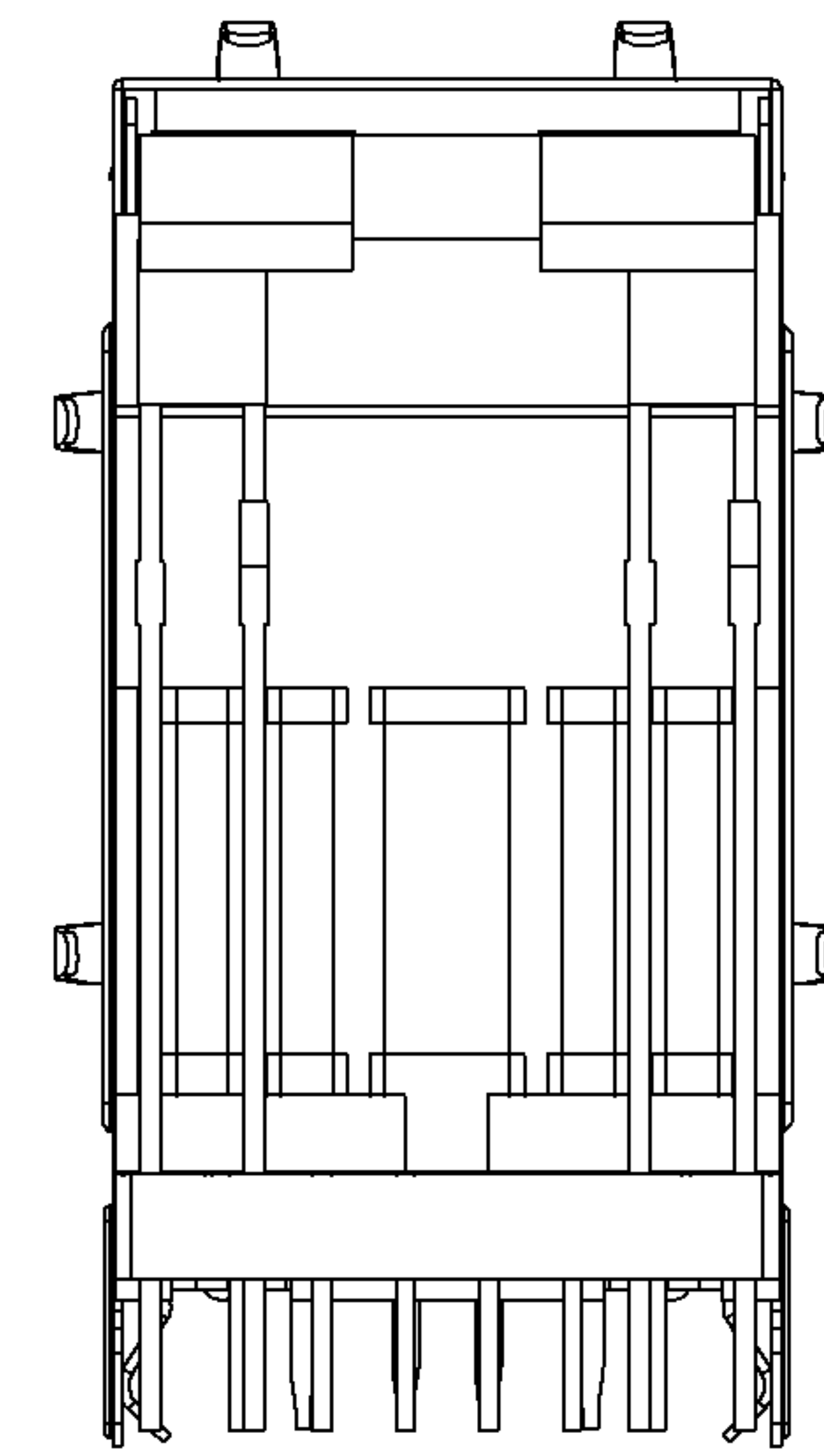
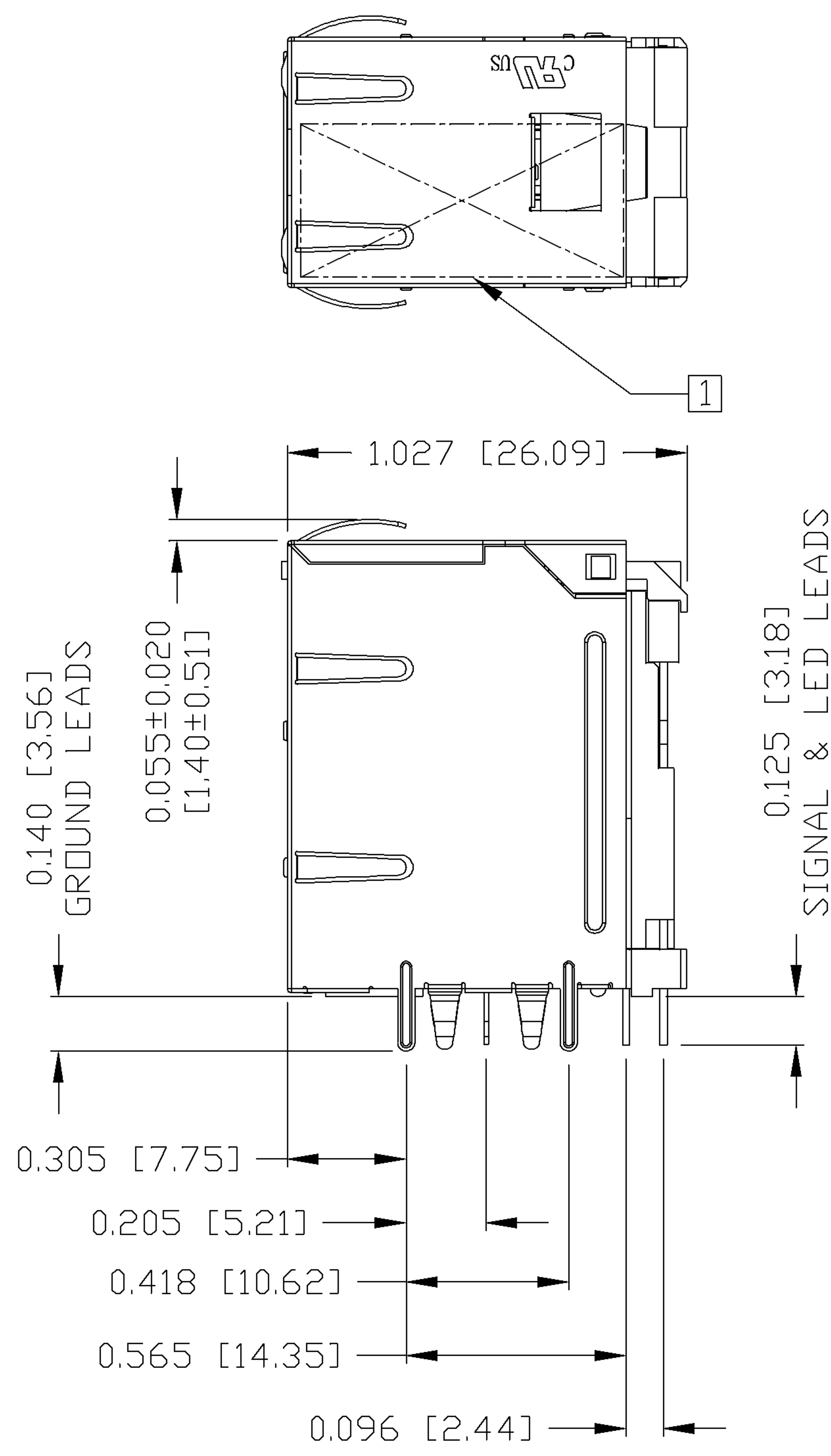
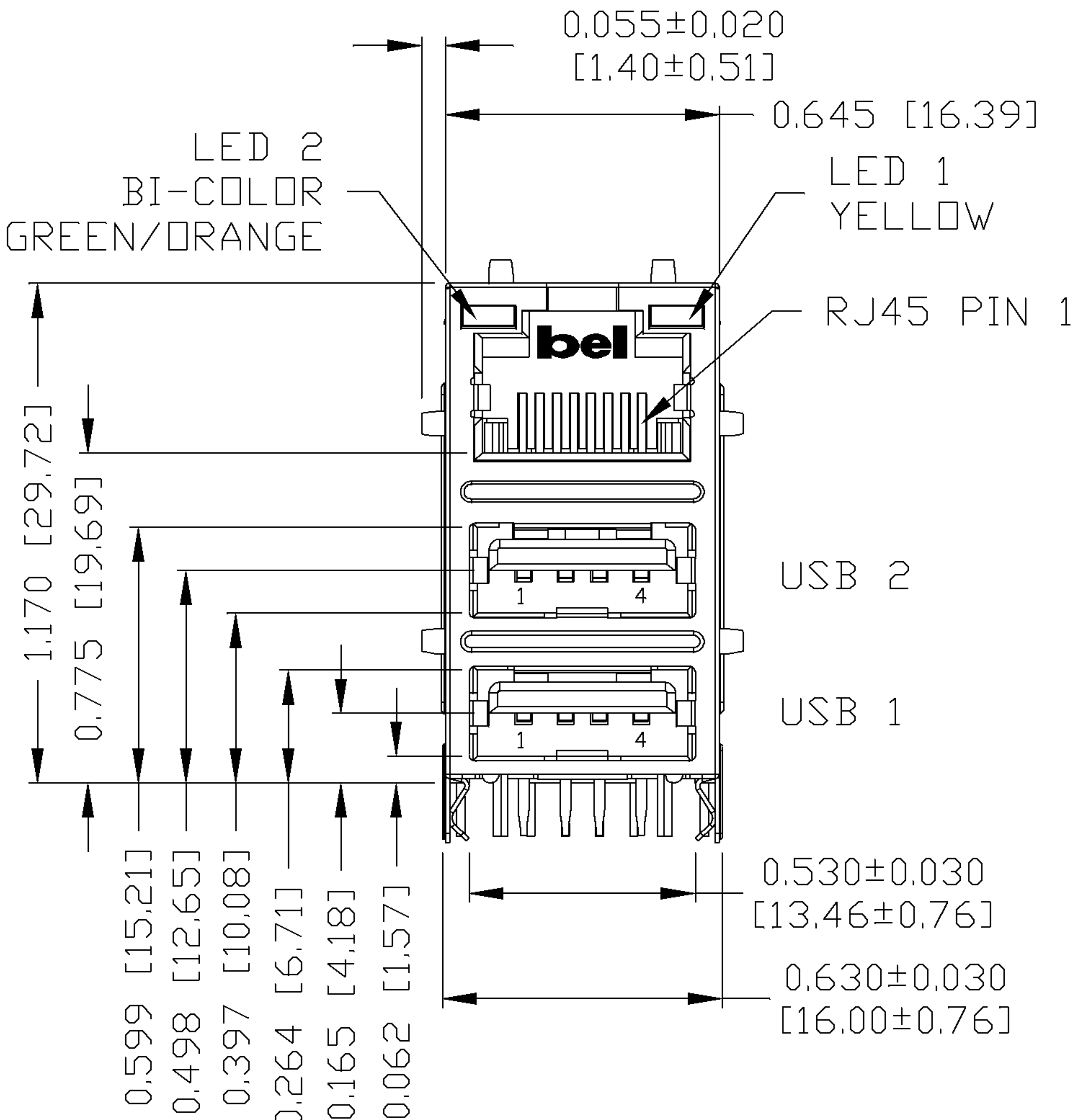
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
CHOW WANCHUNG	12-26-07	MagJack® Combo (CM Termination)	08C2-1X1T-03	TOL. IN INCH	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
DENG PING	12-26-07		08C2-1X1T-03_B.DWG	.XX .XXX		PAGE : 2



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MECHANICAL SPECIFICATION

RoHS
2002/95/EC



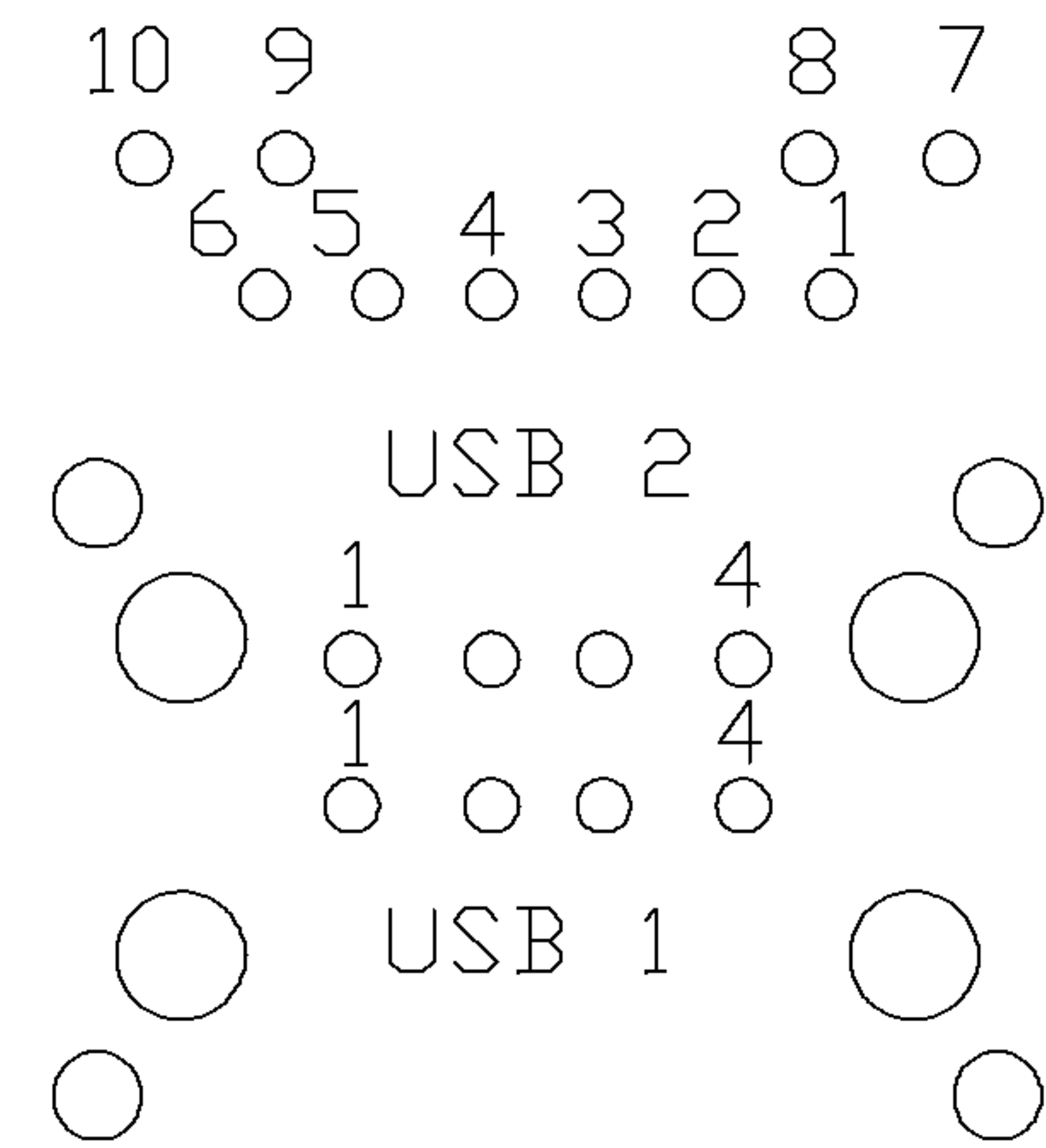
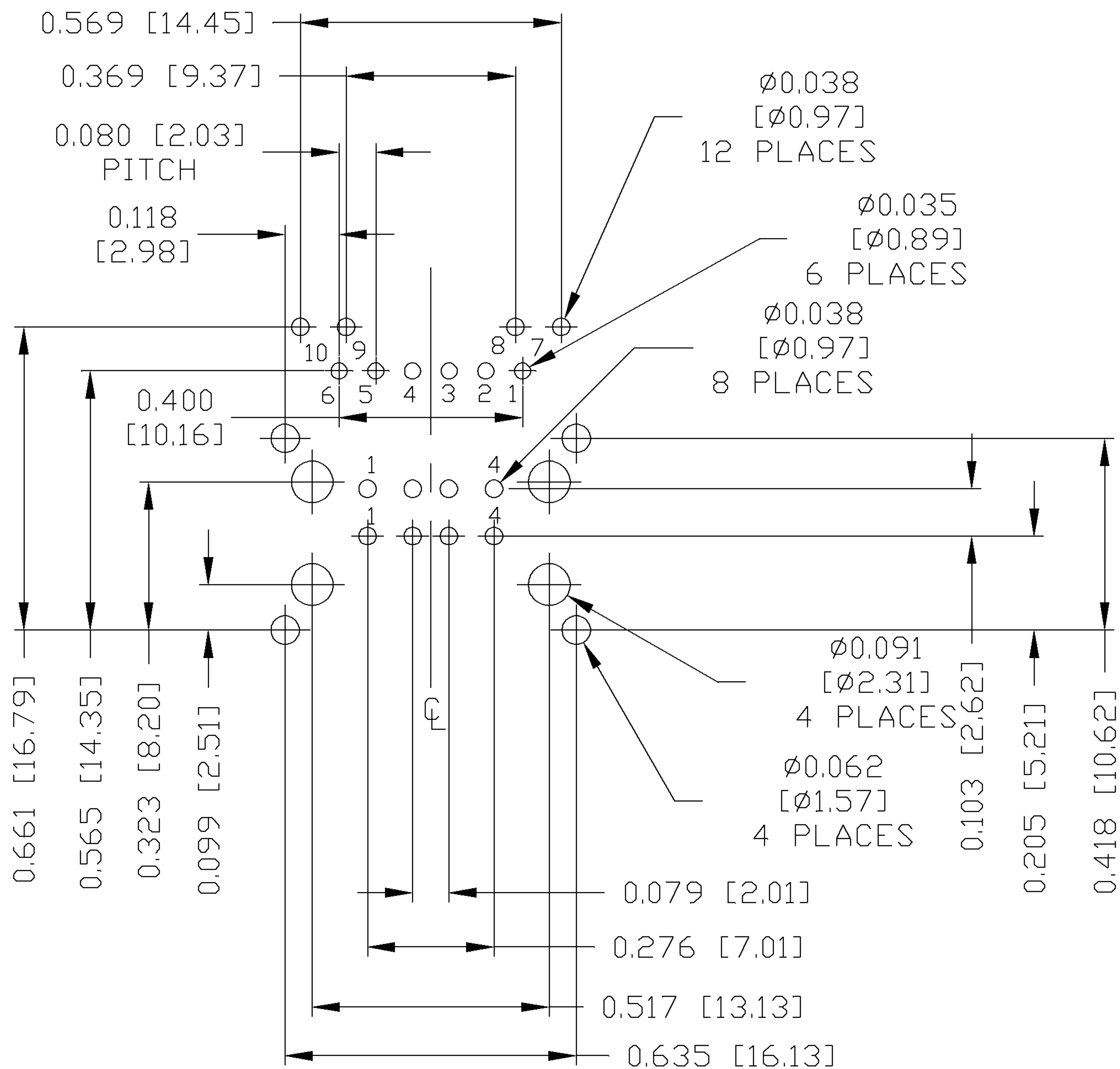
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : B
LIU QIN	12-26-07	MagJack® Combo (CM Termination)	08C2-1X1T-03	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 3
CHEN TING	12-26-07		08C2-1X1T-03_B.DWG	.XXX	±0.010		



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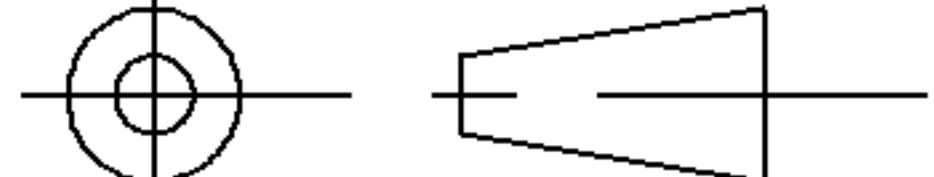
Recommended PCB footprint
Component Side



- RJ45 MECHANICAL:
PLASTIC HOUSING: THERMOPLASTIC PBT OR EQUIVALENT, FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 30 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)
- USB MECHANICAL:
MATING FORCE: 35 NEWTONS MAXIMUM
UNMATING FORCE: 10 NEWTONS MINIMUM
CONTACT: PHOSPHOR BRONZE 30 MICRO-INCH GOLD PLATING ON CONTACT AREA AND TIN ON SOLDER TAIL.

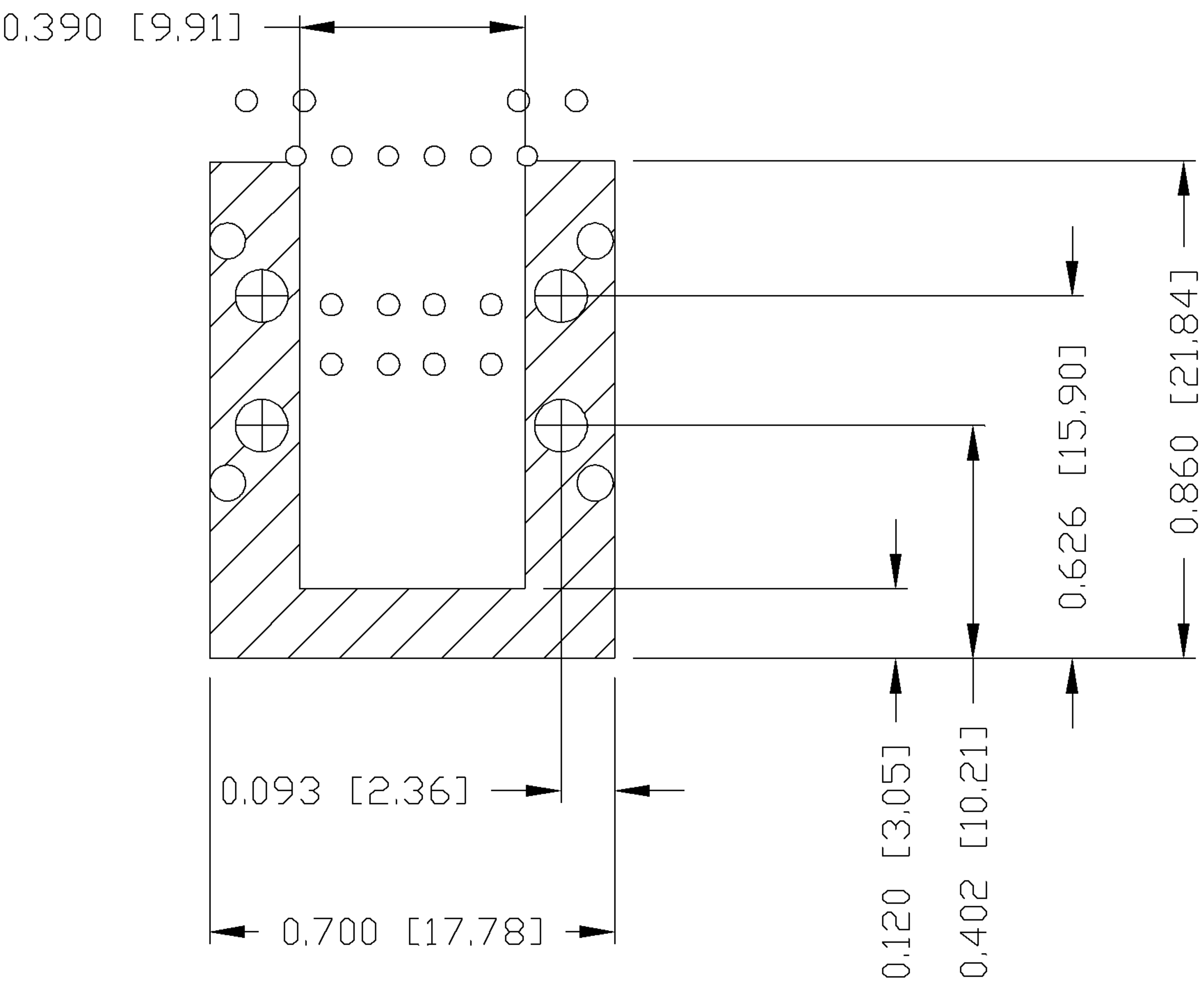
 US UL RECOGNIZED - FILE #E196366 AND E169987.

1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.
2. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.
3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
LIU QIN	12-26-07	MagJack® Combo (CM Termination)	08C2-1X1T-03	TOL. IN INCH	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
CHEN TING	12-26-07		08C2-1X1T-03_B.DWG	.XX		PAGE : 4
				.XXX		



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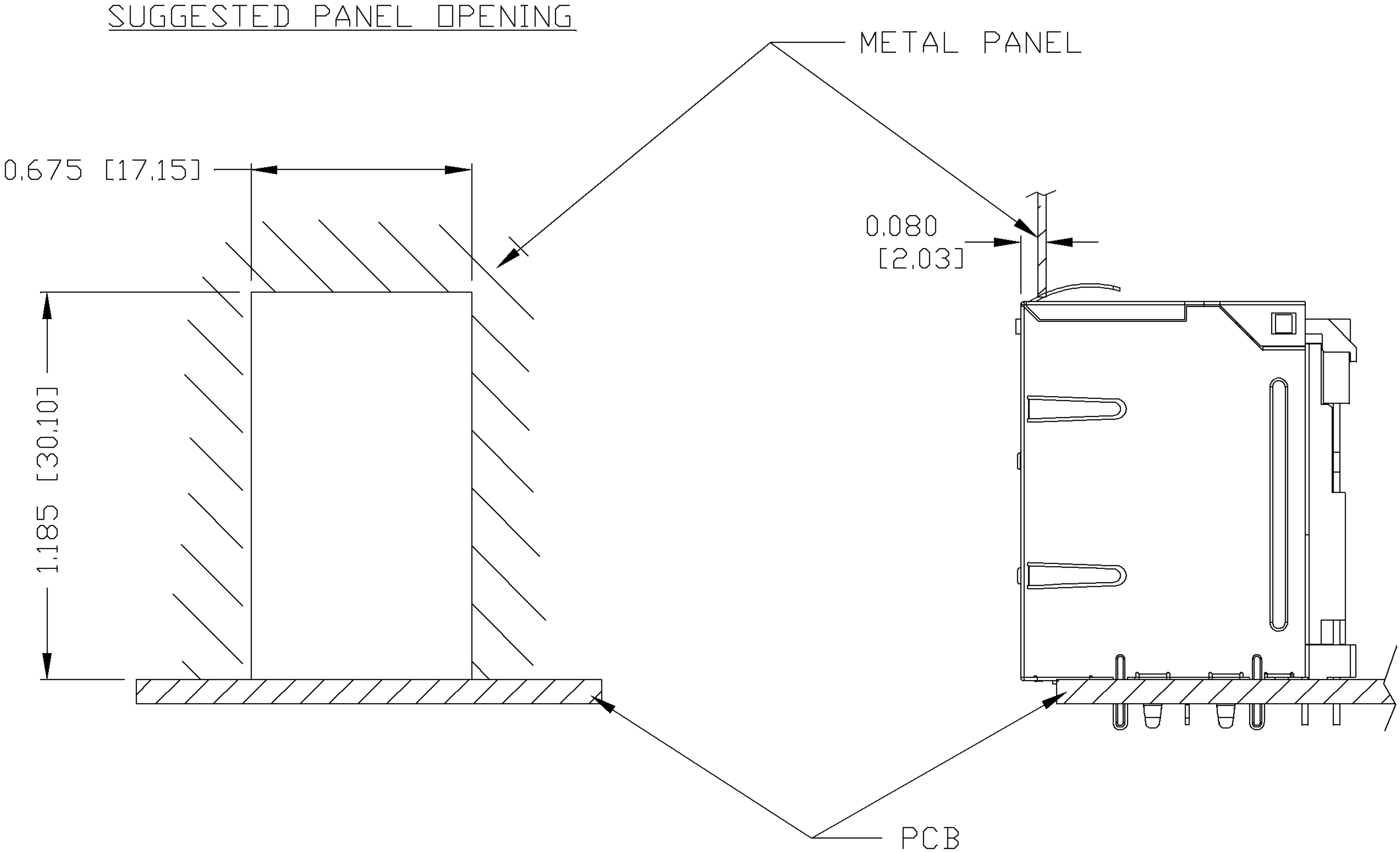


NOTES

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

ORIGINATED BY	DATE	TITLE MagJack® Combo (CM Termination)	PART NO. / DRAWING NO. 08C2-1X1T-03		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET	
LIU QIN	12-26-07		FILE NAME 08C2-1X1T-03_B.DWG		.X		UNIT : INCH [mm]			REV. : B
DRAWN BY	DATE				SCALE : N/A		SIZE : A4			
CHEN TING	12-26-07				.XXX		±0.004	 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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LIU QIN	12-26-07	MagJack® Combo (CM Termination)	08C2-1X1T-03	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 6
CHEN TING	12-26-07		08C2-1X1T-03_B.DWG	.XXX	±0.004		

