



LED1 POLARITY			LED2 POLARITY		
PIN 21	PIN 22	COLOR	PIN 19	PIN 20	COLOR
+	-	YELLOW	-	+	GREEN
-	+	GREEN			

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

QCL @ 100kHz/100mVRMS
8mA DC BIAS

350μH MIN.

INS. LOSS

100KHz TO 100MHz	-0.8 dB MAX
100MHz TO 125MHz	-1.2 dB MAX

RET. LOSS (MIN)

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

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 or 2250VDC

LED 1

VF (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
		GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.
		GREEN	565nm TYP.

LED 2

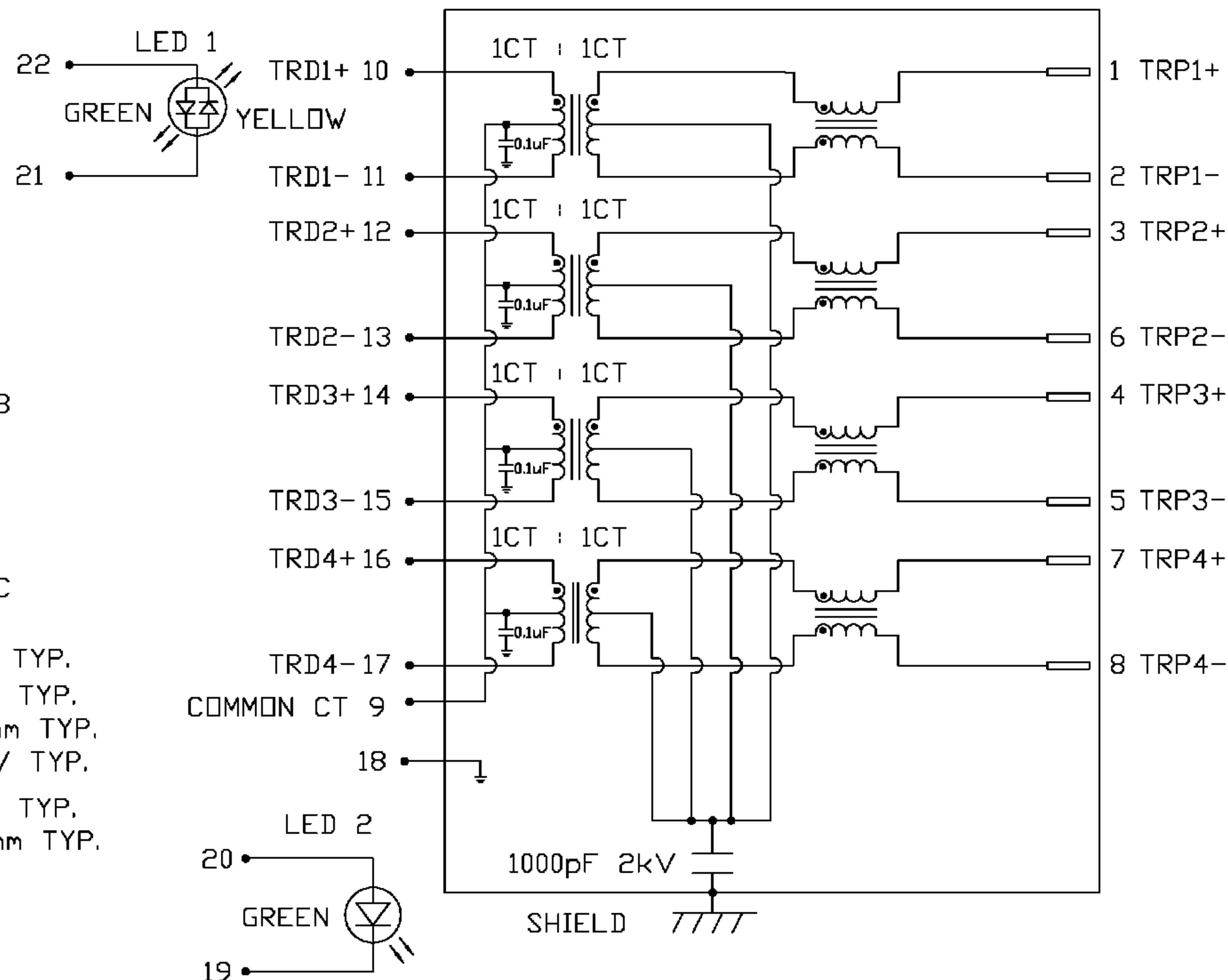
VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	565nm TYP.

USB ELECTRICAL:

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

SCHEMATIC

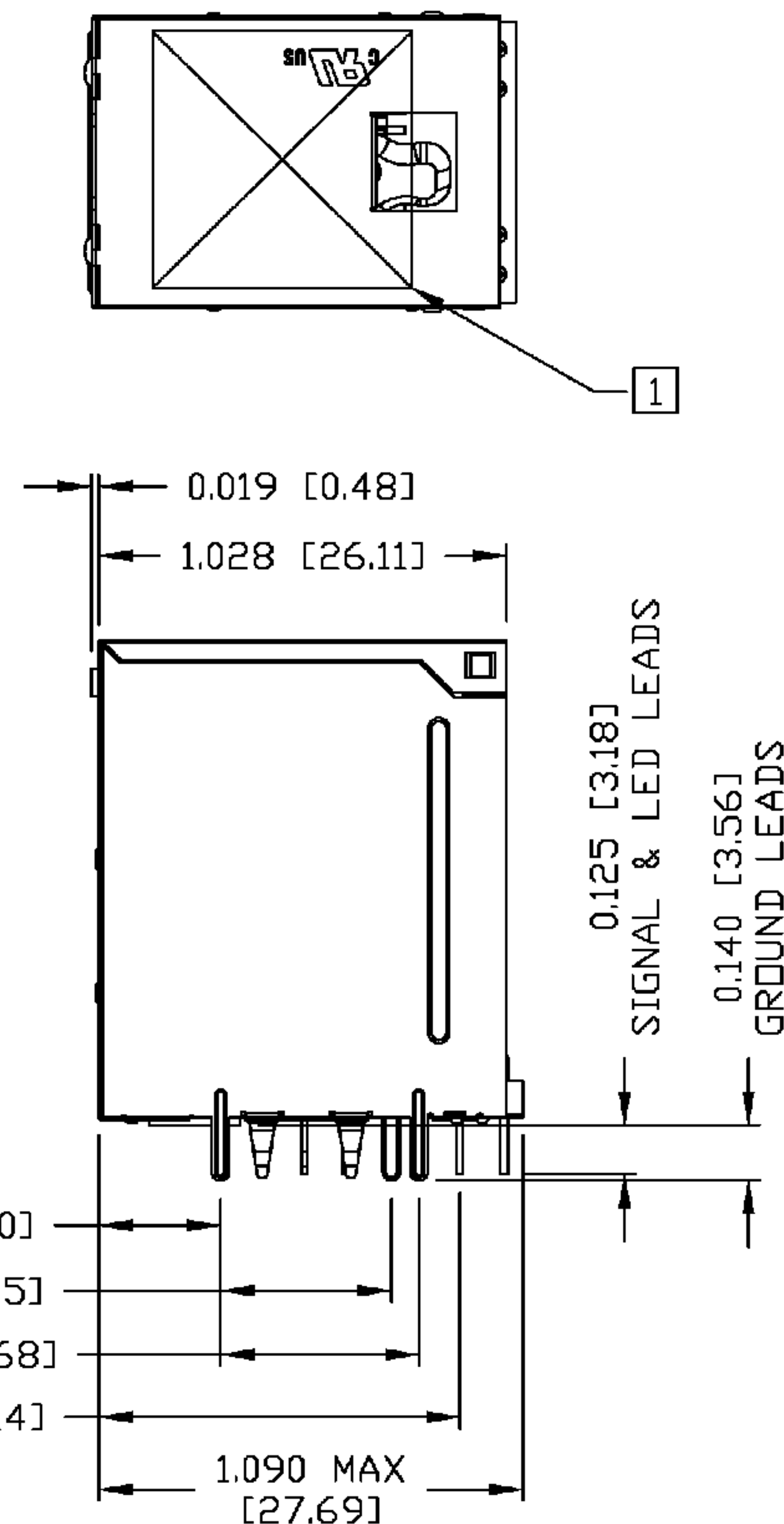
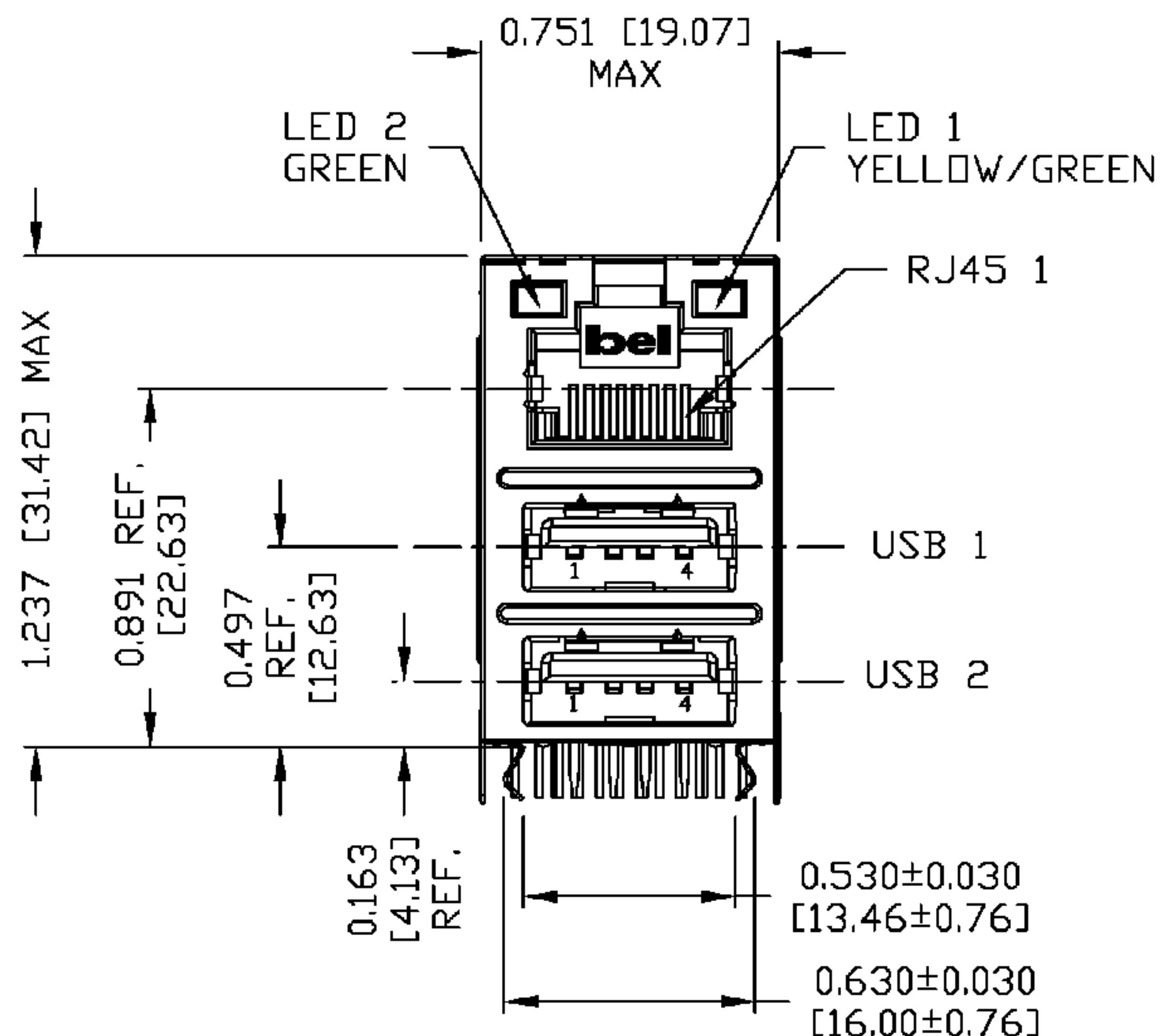
RJ45



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
CHUNG	04-12-06	gigabit MagJack® Combo (Staggered pin, 8 cores)	C893-1RX1-E3	TOL. IN INCH	UNIT : INCH [mm]
DRAWN BY	DATE		FILE NAME	.X	REV. : C
DE	04-12-06		C8931RX1E3C.DWG	.XX	SCALE : N/A
				.XXX	SIZE : A4
					PAGE : 2



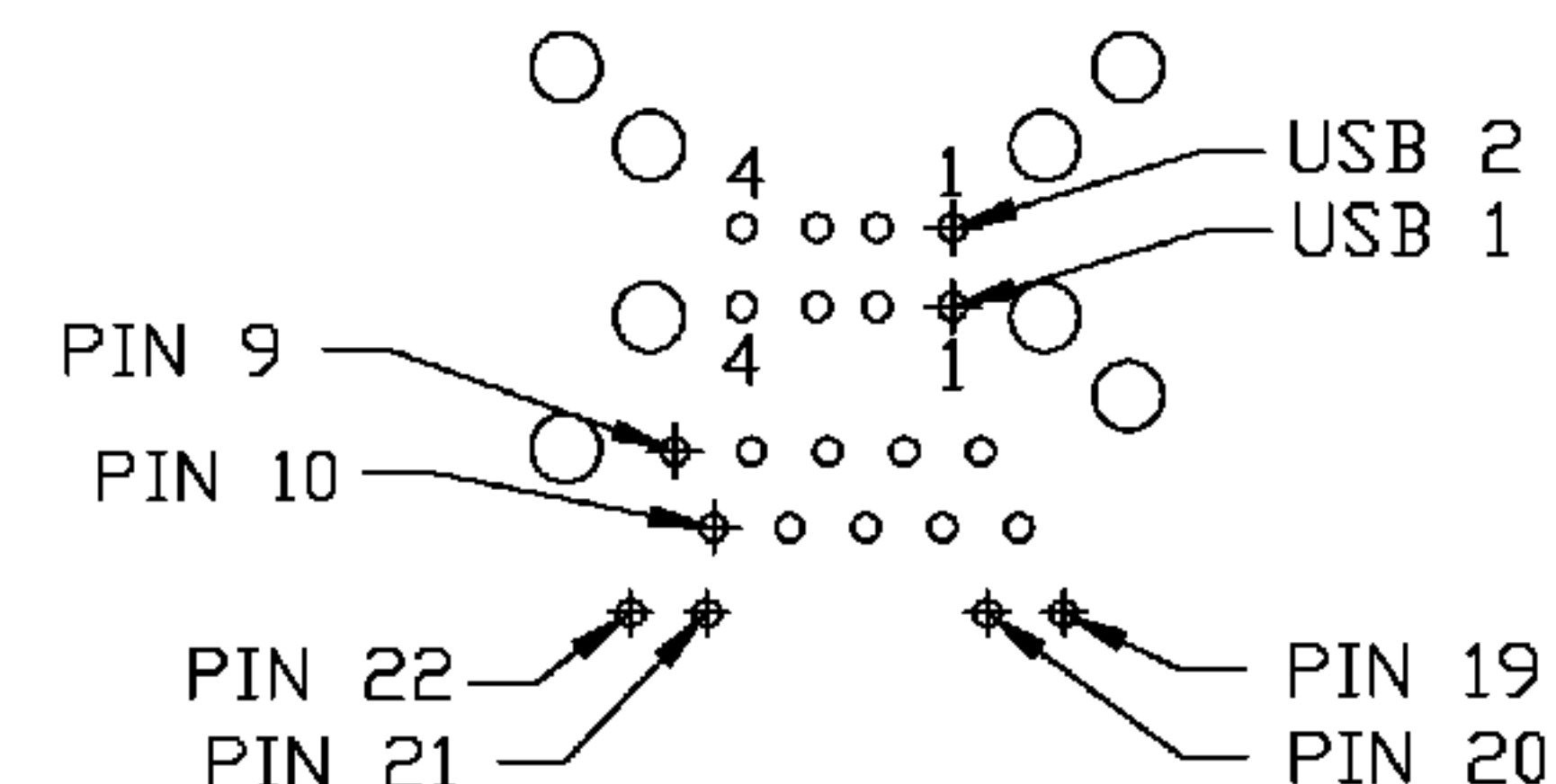
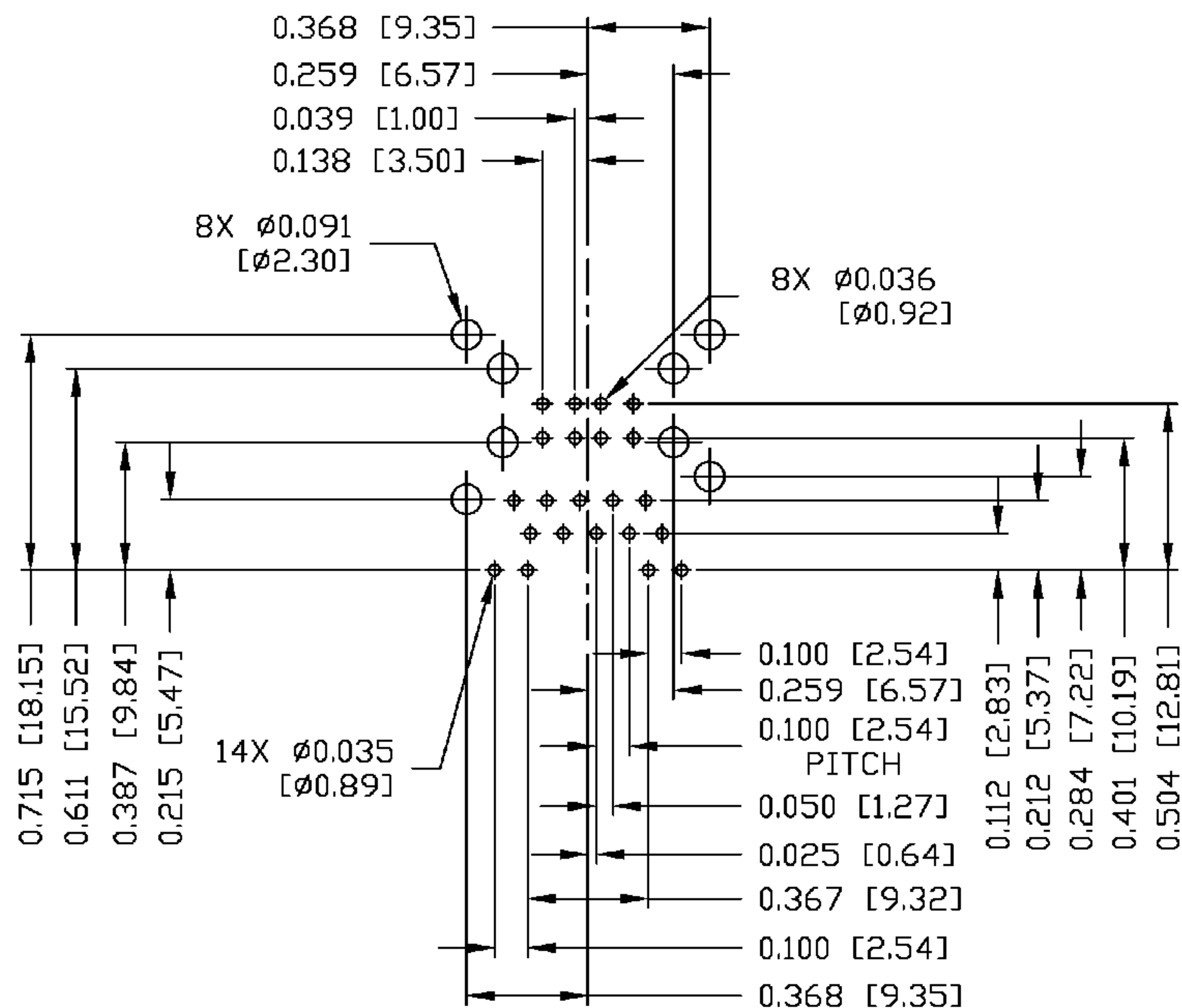
MECHANICAL SPECIFICATION



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : C
QIN	04-12-06	gigabit MagJack® Combo (Staggered pin, 8 cores)	C893-1RX1-E3	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 3
TING	04-12-06		C8931RX1E3C.DWG	.XXX	±0.010		



Recommended PCB footprint Component Side



RJ45 MECHANICAL:

PLASTIC HOUSING:

CONTACTS PLATING:

PINS:

METAL SHIELD:

THERMOPLASTIC PBT

FLAMMABILITY RATING UL 94V-0

50 MICRO-INCH HARD GOLD PLATING

TIN-COATED CP 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.

1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND
DATE CODE.

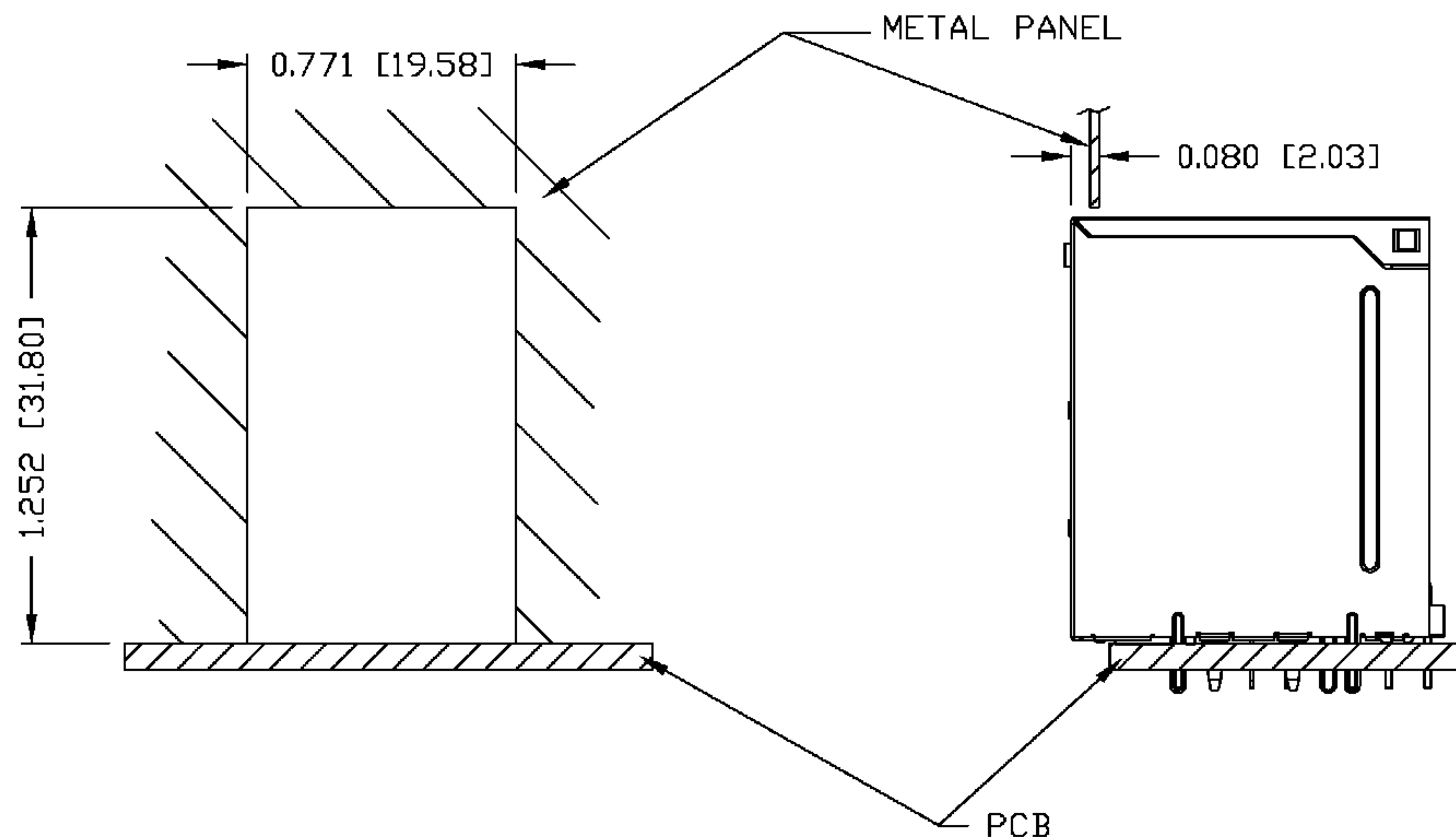
UL UL RECOGNIZED - FILE #E196366 AND E169987.

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

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

ORIGINATED BY QIN	DATE 04-12-06	TITLE gigabit MagJack® Combo (Staggered pin, 8 cores)	PART NO. / DRAWING NO. C893-1RX1-E3	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.004	[] METRIC DIM. AS REFERENCE UNIT : INCH [mm] SCALE : N/A PAGE : 4	REV. : C SIZE : A4
DRAWN BY TING	DATE 04-12-06		FILE NAME C8931RX1E3C.DWG			

SUGGESTED PANEL OPENING



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-H3 (TOP)

0200-9999-H4 (BOTTOM)

PACKING QUANTITY : 35 PCS FINISHED GOODS PER TRAY

9 TRAYS (315 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	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : C
QIN	04-12-06	gigabit MagJack® Combo (Staggered pin, 8 cores)	C893-1RX1-E3	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX			PAGE : 5
TING	04-12-06		C8931RX1E3C.DWG	.XXX	±0.004		