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LED1 POLARITY			LED2 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
-	+	YELLOW	+	-	ORANGE
			-	+	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

0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.5 dB MAX
65MHz 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

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.

OPERATING TEMPERATURE: -40°C TO +85°C

LED 1

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

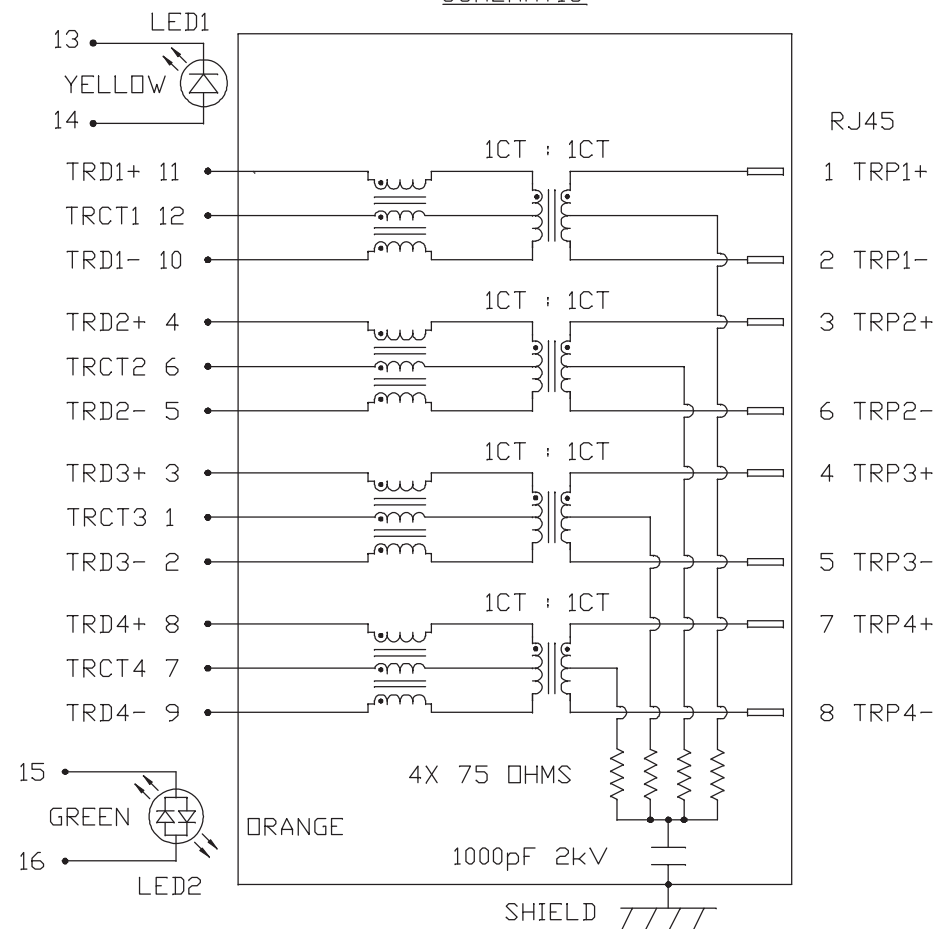
LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA ORANGE 2.0V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.
ORANGE 605nm TYP.

USB ELECTRICAL:

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

SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2015-10-13

TITLE
gigabit MagJack® Combo
(Single USB)
Extended temperature
0821-1X1T-32-F
PATENTED

PART NO. / DRAWING NO.
08211X1T32-F

FILE NAME
08211X1T32-F_C.DWG

STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
.X		UNIT : INCH [mm]	
.XX		SCALE : N/A	
.XXX		SIZE : A4	

REV. : C PAGE : 2



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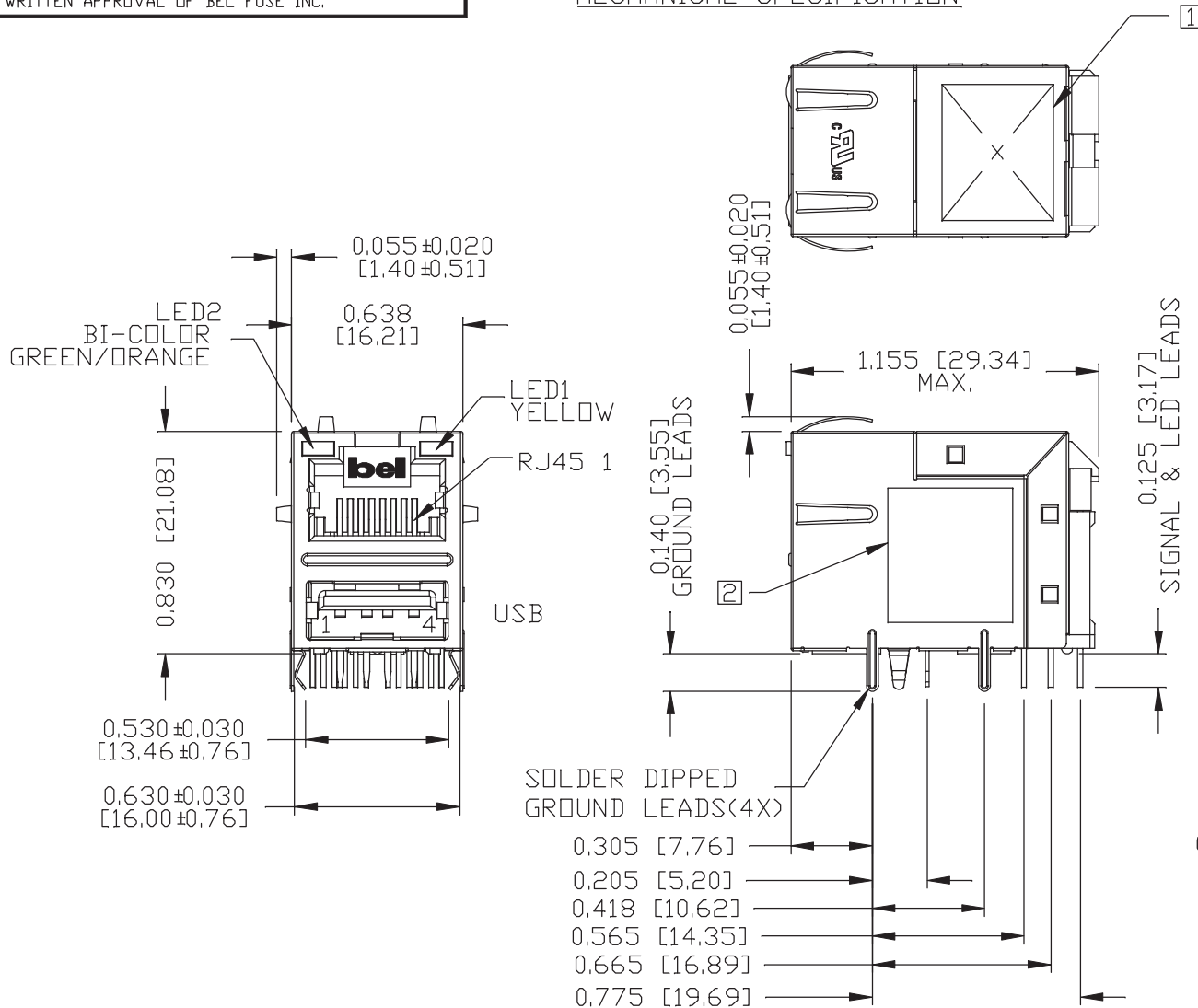
Please read our datasheet & drawing disclaimer [here](#).

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RoHS



MECHANICAL SPECIFICATION



RJ45 MECHANICAL:

PLASTIC HOUSING: THERMOPLASTIC PBT
 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: 35 NEWTONS MAXIMUM
 UNMATING FORCE: 10 NEWTONS MINIMUM
 CONTACT: PROSPER BRONZE
 30 MICRO-INCH MIN GOLD PLATING ON CONTACT AREA AND TIN ON SOLDER TAIL.

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

 UL RECOGNIZED - FILE #E196366 AND E169987.

② MARKING "PATENTED".

3. THE PRODUCT IS RoHS COMPLIANT.

4. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 7,123,117.

ORIGINATED BY
ANTON LIAO
DATE 2015-10-13

DRAWN BY
JESSE LI
DATE 2015-10-13

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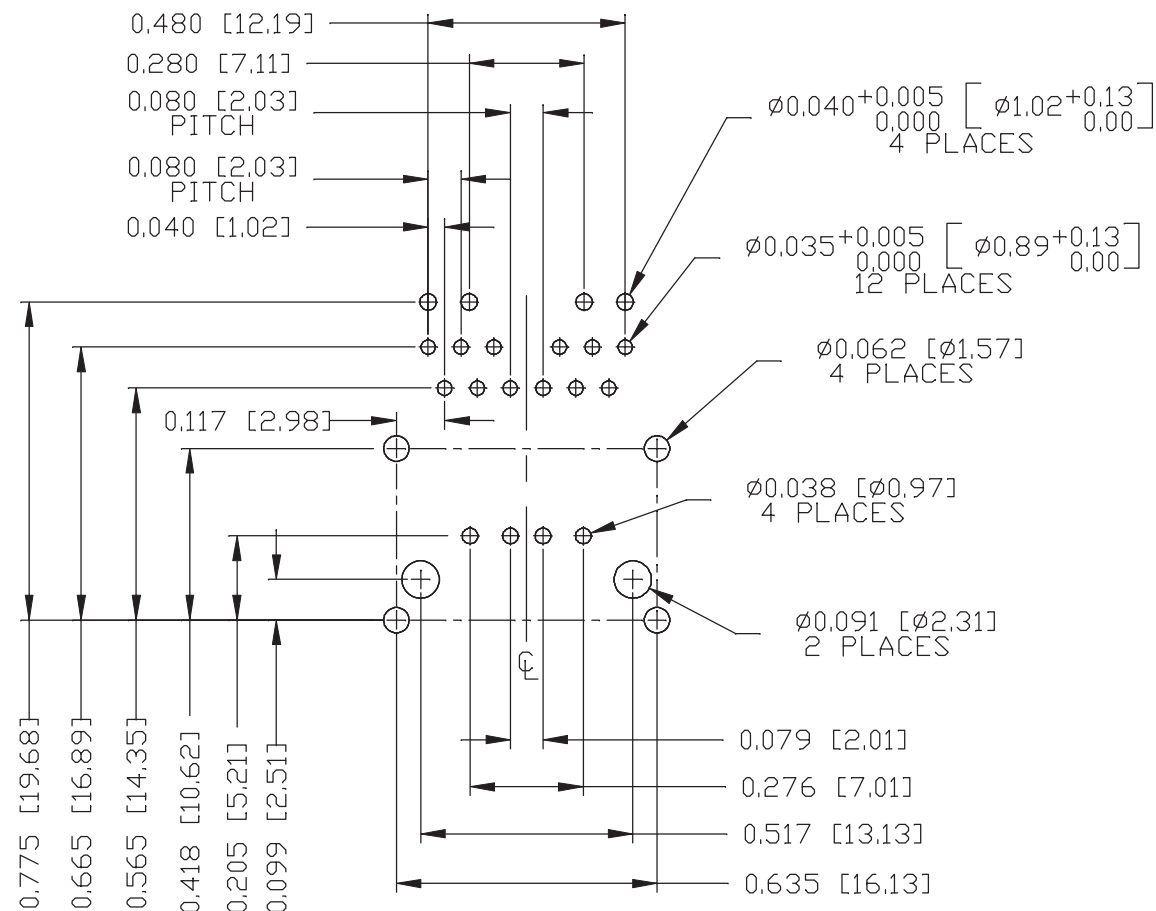
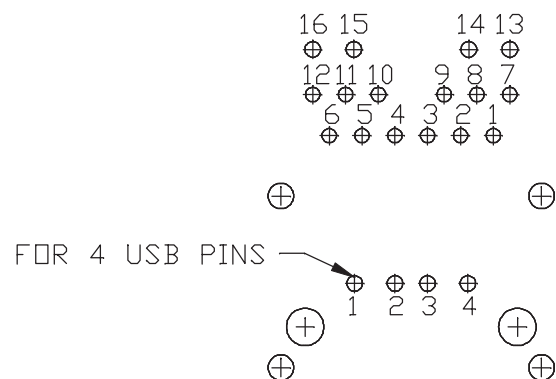


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RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW



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TOL. IN INCH

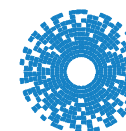
.X
.XX
.XXX
±0.004

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : C

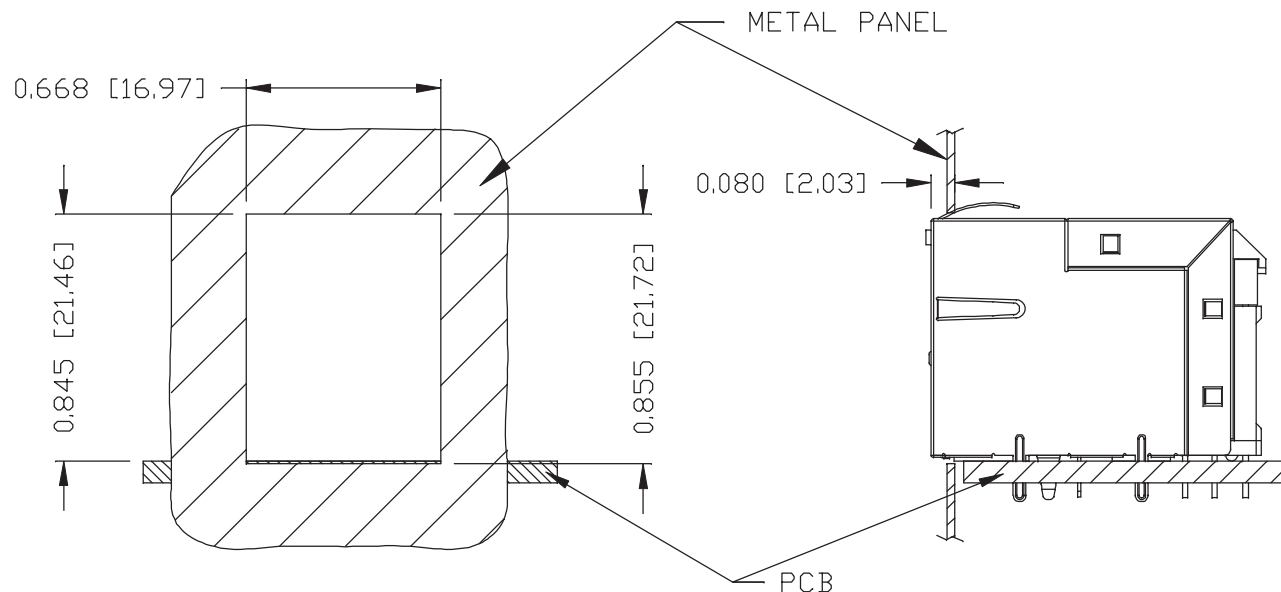
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SOLUTIONS
a bel group



SUGGESTED PANEL OPENING



NOTES:

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 : 0200-0148-48 (TOP)

0200-0148-49 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY

8 TRAYS (480 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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