



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX	1CT : 1
RX	1CT : 1

DCL @ 100kHz/100mVRMS

8mA DC BIAS	350μH MIN.
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INS. LOSS

1MHZ TO 100MHZ	-1.0 dB MAX
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RET. LOSS (MIN)

1MHZ-30MHZ	-18 dB
30MHZ-60MHZ	-18+20LOG(F/30MHZ) dB
60MHZ-80MHZ	-12 dB

CROSS TALK (TX - RX)

500kHz-100MHZ	-35 dB MIN
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CM TO CM REJ

100kHz-100MHZ	-30 dB MIN
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CM TO DM REJ

100kHz-100MHZ	-40 dB MIN
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HIPOT (Isolation Voltage):

1500 Vrms or 2250 VDC

OPERATING TEMPERATURE:

-40°C TO 85°C

LED 1

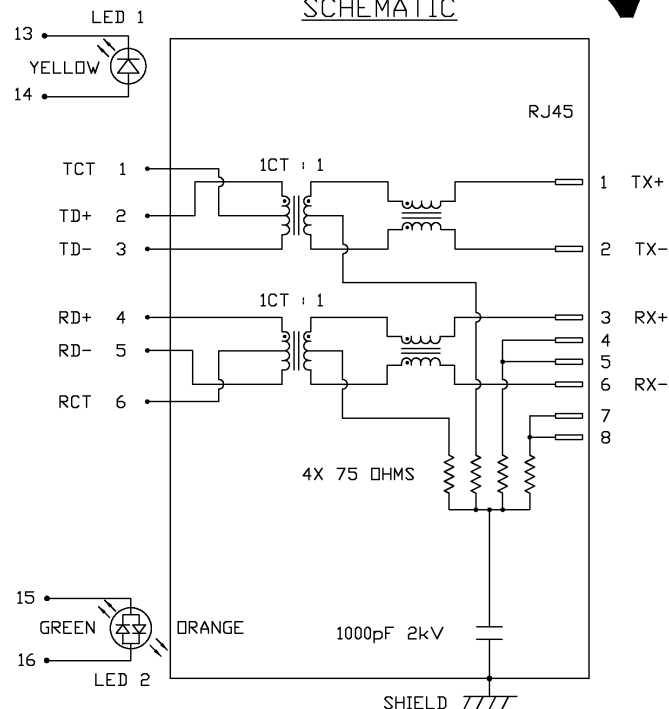
VF (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.

LED 2

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

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

SCHEMATIC



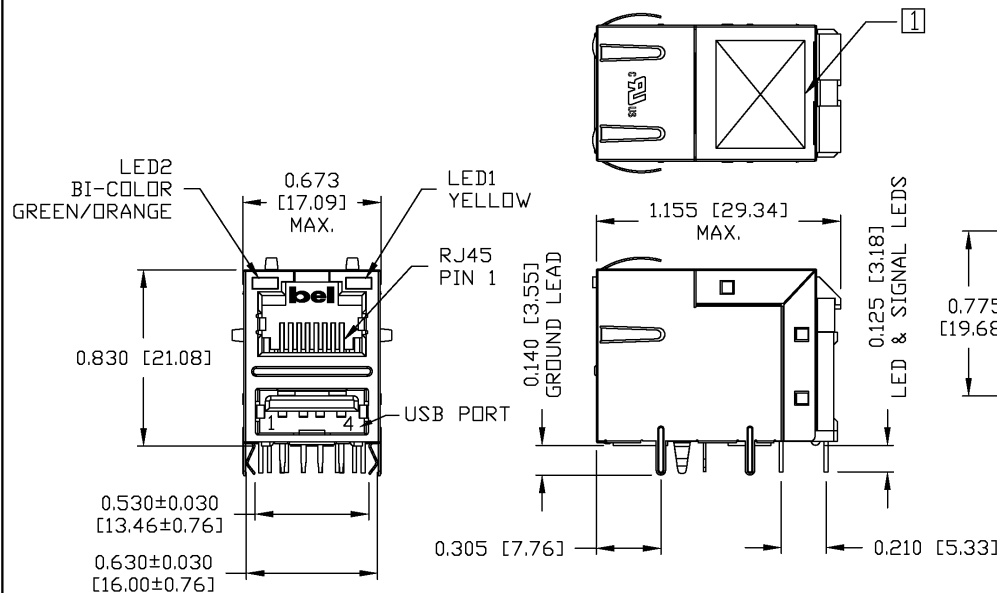
USB ELECTRICAL:

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

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
CHUNG	06-05-05	MagJack® Combo	08211X1T36-F	TOL. IN INCH	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE	(single USB, Ext. Temp. MDIX)	FILE NAME	.X	SCALE : N/A SIZE : A4
DE	06-05-05	0821-1X1T-36-F	08211X1T36-FA.DWG	.XX	SCALE : N/A SIZE : A4
				.XXX	SCALE : N/A SIZE : A4
					PAGE : 2

MECHANICAL SPECIFICATION

RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



RJ45 MECHCNICAL:

PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 30 MICRO-INCH HARD GOLD PLATING
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
METAL SHIELD: TIN OR NICKEL PLATED ON COPPER ALLOY.
(ALL NICKEL PLATED GROUND LEADS ARE SOLDER DIPPED)

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

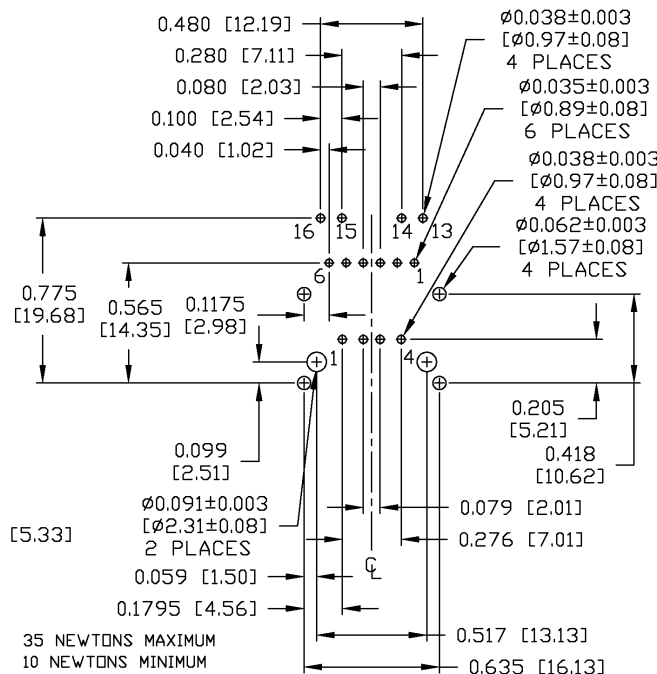
USB MECHANICAL:

MATING FORCE: 35 NEWTONS MAXIMUM
UNMATING FORCE: 10 NEWTONS MINIMUM
CONTACT: PROSPER BRONZE

30 MICRO-INCH MIN GOLD PLATING ON CONTACT AREA AND LEAD-FREE TIN ON SOLDER TAIL.

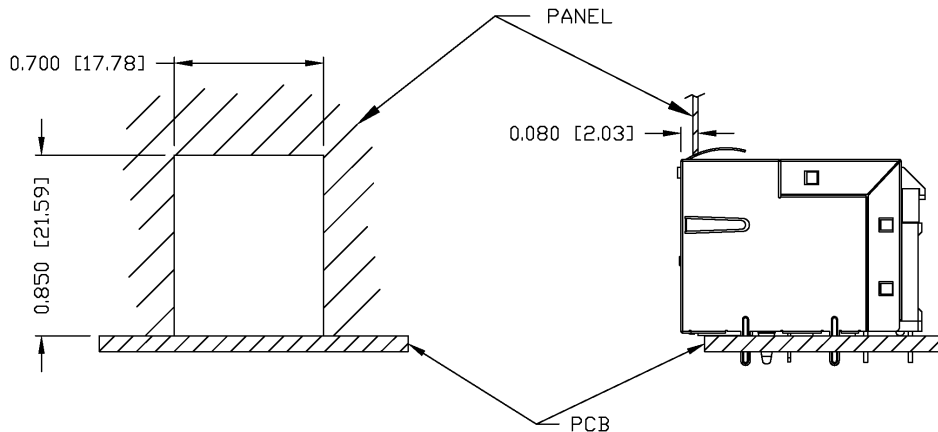
① MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER, AND DATE CODE.

UL US UL RECOGNIZED - FILE #E196366 AND E169987.



ORIGINATED BY BILL/KEUNG	DATE 06-05-05	TITLE MagJack® Combo (single USB, Ext. Temp. MDIX) 0821-1X1T-36-F	PART NO. / DRAWING NO. 08211X1T36-F	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.010	[] METRIC DIM. AS REFERENCE UNIT : INCH [mm] SCALE : N/A	REV. : A SIZE : A4 PAGE : 3	
DRAWN BY QIN	DATE 06-05-05	FILE NAME 0821-1X1T-36-F	08211X1T36-FA.DWG				

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)

ORIGINATED BY	DATE	TITLE MagJack® Combo (single USB, Ext. Temp. MDIX)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
BILL/KEUNG	06-05-05		08211X1T36-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
QIN	06-05-05		0821-1X1T-36-F	.XX		±0.005		