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

## ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

TX 1CT : 1 RX 1CT : 1

□CL @ 100kHz/100mVRMS

8mA DC BIAS  $350\mu H$  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)

500kHz-100MHz -35 dB MIN

CM TO CM REJ

100kHz-100MHz -30 dB MIN

CM TO DM REJ

100kHz-100MHz -40 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms or 2250 VDC

□PERATING TEMPERATURE: -40°C T□ 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.

AD (DOMINANT WAVELENGTH)

IF=20mA GREEN 565nm TYP.

DRANGE 610nm TYP.

USB ELECTRICAL:
GREEN 2.2V TYP.

INSULATION RESISTANCE: CONTACT RESISTANCE: DIELECTRIC WITHSTANDING:

15 •

16 •

LED 1

TCT 1 ←

TD+ 2

TD- 3

RD+

RCT 6

5

LED 2

13 •——
YELLOW

1000 MEGAΩ (MIN) 25 MILLI Ω (MAX) 750 VAC

4X 75 DHMS

1000pF 2kV

SHIELD 7777

SCHEMATIC

1CT : 1

1CT : 1

 ORIGINATED
 BY
 DATE

 CHUNG
 06-05-05

 DRAWN
 BY
 DATE

 DE
 06-05-05

MagJack® Combo

(single USB, Ext. Temp. MDIX)

0821-1X1T-36-F

PART NO. / DRAWING NO. STANDARD DIM. METRIC DIM. AS REFERENCE 08211X1T36-F TOL. IN INCH UNIT : INCH [mm] REV. : X. FILE NAME SCALE : N/A SIZE : A4 .XX 08211X1T36-FA.DWG PAGE: 2 .XXX

DRANGE



RoHS

1 TX+

2 TX-

RX-

3 RX+

4

5

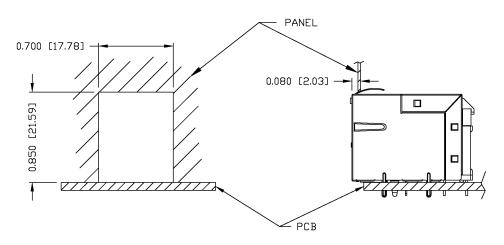
7 8

RJ45

THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. RECOMMENDED PCB FOOTPRINT MECHANICAL SPECIFICATION COMPONENT SIDE VIEW Ø0.038±0.003 0.480 [12.19] -[Ø0.97±0.08] 0.280 [7.11] -4 PLACES 0.080 [2.03] Ø0.035±0.003 [Ø0.89±0.08] 0.100 [2.54] -6 PLACES 0.040 [1.02] -LED2 Ø0.038±0.003 LED1 0.673 BI-COLOR [Ø0.97±0.08] YELLOW [17.09] -1.155 [29.34] GREEN/ORANGE 4 PLACES MAX. 125 [3,18] SIGNAL L MAX. 15 14 <u>16</u>♥ Ø0.062±0.003 RJ45 LEAD [Ø1.57±0.08] 551 PIN 1 4 PLACES 0.775 ത് 0.565 0.1175 0,140 [3 GRDUND [19.68] [14,35] [2,98] 0.830 [21.08] USB PORT 0.205 [5,21] 0.099 0.418 [2.51] [10.62] 0.530±0.030 Ø0.091±0.003 0.079 [2.01] [13,46±0,76]  $[\emptyset 2.31 \pm 0.08] 0.305 \ (7.761 \rightarrow$ 0.210 [5.33] + 0.276 [7.01] 2 PLACES 0.630±0.030 [16.00±0.76] 0.059 [1.50] --RJ45 MECHCNICAL: 0.1795 [4.56] -USB MECHANICAL: PLASTIC HOUSING: THERMOPLASTIC PBT 0.517 [13.13] MATING FORCE: 35 NEWTONS MAXIMUM FLAMMABILITY RATING UL 94V-0 UNMATING FORCE: 10 NEWTONS MINIMUM 0.635 [16.13] CONTACT PLATING: 30 MICRO-INCH HARD GOLD PLATING CONTACT: PROSPHER BRONZE PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH. 30 MICRO-INCH MIN GOLD PLATING ON METAL SHIELD: TIN OR NICKEL PLATED ON COPPER ALLOY. CONTACT AREA AND LEAD-FREE TIN ON SOLDER TAIL. (ALL NICKEL PLATED GROUND LEADS ARE IT MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER, AND DATE CODE. SOLDER DIPPED RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC. CNUS UL RECOGNIZED - FILE #E196366 AND E169987. ORIGINATED BY TITLE PART NO. / DRAWING NO. DATE STANDARD DIM. METRIC DIM. AS REFERENCE MaaJack® Combo 06-05-05 BILL/KEUNG 08211X1T36-F TOL. IN INCH UNIT : INCH [mm] REV. : (single USB, Ext. Temp. MDIX) X. FILE NAME COMPONENTS FOR A CONNECTED PLANET DRAWN BY DATE SCALE : N/A SIZE : A4 .XX 0821-1X1T-36-F QIN 06-05-05 08211X1T36-FA.DWG PAGE: 3 .xxx ±0.010 DC02(2)032305 This document is electronically generated. This is a controlled copy if used internally

## 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 GDDDS PER TRAY

0821-1X1T-36-F

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)

ODIGINAMED DAY DAME MINER					
	ORIGINATED BY	DATE	TITLE		
	BILL/KEUNG	06-05-05	MagJack® Combo		
			/-!I- UCD F T MDIVA		
	DRAWN BY	DATE	(single USB, Ext. Temp. MDIX)		

06-05-05

PART NO. / DRAWING NO.	TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE	
08211X1T36-F			UNIT : INCH [mm]	REV. : A
FILE NAME	.X		SCALE: N/A	SIZE : A4
08211X1T36-FA.DWG	.XX			SIEE . MI
00511V1.30_L W'DMG	.xxx	±0.005	<del>(⊕)</del>	PAGE: 4

