LED1 POLARITY			LED2 POLARITY				
PIN	13	PIN	14	COLOR	PIN 15	PIN 16	COLOR
ı		+		YELLOW	+	1	□RANGE
	_		_		_	+	GREEN



ELECTRICAL CHARACTERISTIC	S @ 25°C
TURNS RATIO	
TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%
OCL @ 100kHz/100mVRMS	OFFICIAL MINI
8mA DC BIAS	350µH MIN.
INS. LOSS 0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 1MHz	-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
CROSS TALK	
100kHz - 100MHz	-33+20L0G(f/100MHz)dB MIN
CM TO CM REJ	
100kHz - 100MHz	-30 dB MIN
CM TO DM REJ 100kHz - 100MHz	-35 dB MIN
HIPOT (Isolation Voltage):	
100% OF PRODUCTION TESTE	
WITH IEEE 802.3 ISOLATION	
LED 1	N NEWOINEINI
LEN 1	IF=20mA YELLOW 2.1V TYP.
	DIF=20mA YELLOW 590nm TYP.
LED 2	DII -COMA TEEELW SOOTH TIE.
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2,2V TYP.
VI (IUKWAKD VULIHUL)	DRANGE 2.0V TYP.
	HRANGE CIUV ITP.

AD (DOMINANT WAVELENGTH) IF = 20mA GREEN 565nm TYP.

13 LED1	<u>SCHEMATIC</u>	DIAE
YELLOW 14		RJ45
TRD1+ 11 ← TRCT1 12 ←	1CT 1CT	1 TRP1+
TRD1- 10 •		2 TRP1-
TRD2+ 4 ←	1CT : 1CT	3 TRP2+
TRCT2 6 ← TRD2- 5 ←		6 TRP2-
TRD3+ 3 ← TRCT3 1 ←	1CT : 1CT	4 TRP3+
TRD3- 2 ←		5 TRP3-
TRD4+ 8 ← TRCT4 7 ←	1CT : 1CT	7 TRP4+
TRD4- 9 ←		8 TRP4-
15 GREEN (AY)	4X 75 DHMS \$ \$ \$ \$ DRANGE	
16 • LED2	1000pF 2kV	1
	SHIELD 7777	

USB ELECTRICAL:

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

ORIGINATED BY	DATE
CHOW WANCHUNG	2012-08-07
DDAWN DV	T) A (TI) E
drawn by Tan qiguang	DATE

gigabit MagJack®Combo (single USB, 8 cores) 0821-1X1T-43-F PATENTED

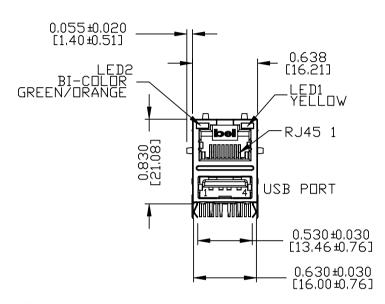
DRANGE 610nm TYP.

PART NO. / DRAWING NO. 08211X1T43-F	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS UNIT: INCH [mm]		
FILE NAME	.XX		SCALE: N/A	SIZE : A4	
08211X1T43-F_C.DWG	.XXX		$\bigoplus $	PAGE: 6	



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)

c Tus ul recognized - file #E196366 AND E169987.

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

2 MARKING "PATENTED".

0.305 [7.76] 0.205 [5.20] 0.418 [10.62] 0.567 [14.40] 0.667 [16.94] 0.775 [312]

USB MECHANICAL:

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

30 MIRCO-INCH MIN GOLD PLATING ON

CONTACT AREA AND LEAD-FREE TIN ON SOLDER LEADS.

3. THE PRODUCT IS ROHS COMPLIANT.

4. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 7,123,117.

ORIGINATED BY	DATE
ANTON LIAO	2012-08-07
DRAWN BY	DATE

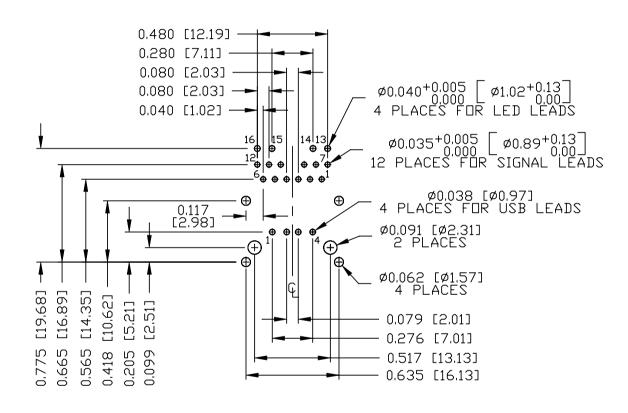
gigabit MagJack® Combo
(single USB, 8 cores)
0821-1X1T-43-F
PATENTED

PART NO. / DRAWING NO.	STANDA	RD DIM.	[] METRIC DIM. AS	REFERENCE	ſ
08211X1T43-F	TOL. I	N INCH	UNIT : INCH [mm]	REV. : C	l
FILE NAME	.X		SCALE: N/A	SIZE: A4	l
08211X1T43-F C.DWG	.XX	±0,010		PAGE: 3	ı
_	.XXX	±0'010	Ψ	FAGE: U	1



RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW





ORIGINATED BY	DATE
ANTON LIAO	2012-08-07
DRAWN BY	DATE

DC002(2)081111

gigabit MagJack®Combo (single USB, 8 cores) 0821-1X1T-43-F PATENTED

08211X1T43-F	
FILE NAME	
08211X1T43-F_C.DWG	
00E11X11+3 1 _C.DWd	

STANDARD DIM.

TOL. IN INCH

±0.004

.X

.XX

.XXX

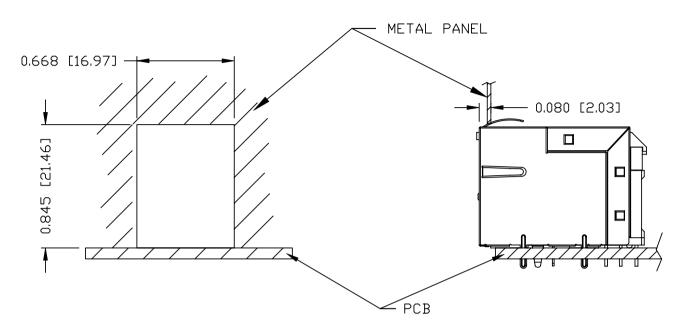
PART NO. / DRAWING NO.

[] METRIC DIM. AS	REFERE	NCE
UNIT: INCH [mm]	REV. :	С
SCALE: N/A	SIZE :	A4
\bigcirc	PAGE:	4



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 (TDP)

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 ANTON LIAO	DATE 2012-08-07	TITLE gigabit MagJack®Combo (single USB, 8 cores)	PART NO. / DRAWING NO. 08211X1T43-F	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS F	
drawn by HE ZHEN	DATE 2012-08-07	0821-1X1T-43-F	FILE NAME 08211X1T43-F_C.DWG	.X .XX ±0.004	SCALE: N/A S	IZE : A4 PAGE : 5



Mouser Electronics

Authorized Distributor

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Bel:

0821-1X1T-43-F