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	ED1	_ARITY	LED2 POLARITY						
PIN 13 PIN 14			COLOR	PIN	15	PIN	16	COLOR	
_		+		YELLOW	+		-	-	DRANGE
			_		_	-	-	+	GREEN

13 •

TRD1+

TRCT1

TRD1-

TRD2+

TRCT2

TRD2-

TRD3+

TRCT3

TRD3-

TRD4+

TRCT4

TRD4-



TRP1+

TRP1-

TRP2+

TRP2-

TRP3+

TRP3-

TRP4+

TRP4-

RJ45

2

ELECTRICAL	CHARACTERISTICS	(2)	201	_
-				

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

DCL @ 100kHz/100mVRMS

8mA DC BIAS 350µH MIN.

INS. LOSS

0.1MHz TO 1MHz -1.1 dB MAX 1MHz TD 65MHz -0.5 dB MAX 65MHz TO 100MHz -0.8 dB MAX 100MHz TD 125MHz -1.2 dB MAX

RET. LOSS (MIN)

0.5MHz-40MHz -18 dB

40MHz-100MHz $-12+20L\Box G(f/80MHz) dB$

CROSS TALK

100kHz - 100MHz $-33+20L\Box G(f/100MHz)dB$ MIN

CM TO CM REJ

100kHz - 100MHz -30 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN HIPOT (Isolation Voltage): 1500 Vrms 100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENT

LED 1

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

LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

DRANGE 2.0V TYP.

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

DRANGE 610nm TYP.

USB ELECTRICAL:

INSULATION RESISTANCE: 1000 MEGAΩ (MIN) CONTACT RESISTANCE: 25 MILLIΩ (MAX)

LED1

11 •

12 •

10 •

4

6

5

3 •

1 •

2

8

9

7 •

DIELECTRIC WITHSTANDING:

750 VAC

[] METRIC DIM. AS REFERENCE

SCHEMATIC

1CT : 1CT

1CT : 1CT

1CT : 1CT

1CT : 1CT

4X 75 □HMS \$

1000pF 2kV

דלדו SHIELD

be

OMGIN	TIED DI	DAIL				
CHOW	WANCHUNG	JNG 2012-08-07				
DRAWN	BY	DATE				

חאידני

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

PART NO. / DRAWING NO. STANDARD DIM. 08211X1T43-F TOL. IN INCH UNIT : INCH [mm] REV. : X. FILE NAME SCALE: N/A SIZE: A4 XX. 08211X1T43-F C,DWG PAGE: XXX.

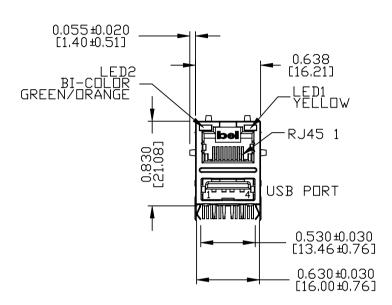
DRANGE

ODICINATED DV

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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.

NICKEL PLATED ON COPPER ALLOY. METAL SHIELD:

(ALL GROUND LEADS ARE SOLDER DIPPED)

C. TITIS UL RECOGNIZED - FILE #E196366 AND E169987.

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

2 MARKING "PATENTED".

0,055±0,020 [1,40±0,51] .551 EADS 1.155 [29.34] MAX. 0,140 [3,5 GROUND LE SIGNAL 0.305 [7.76] 0.205 [5.20] 0.418 [10.62] 0.567 [14.40] 0.667 [16.94] -0.775 [19.69]

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	TITLE gigabit MagJack®Combo	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS	REFERENC
ANTON LIAO	2012-08-07	(single USB, 8 cores)	08211X1T43-F	TOL. IN INCH	UNIT : INCH [mm]	REV.:
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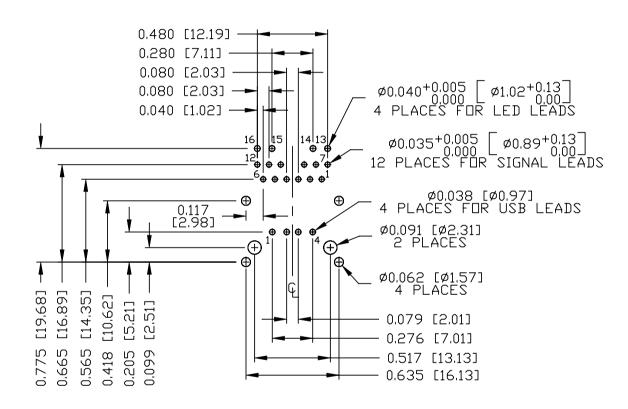


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RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW





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

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

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0	8211X1T43-F_C.DWG						

PART NO. / DRAWING NO.

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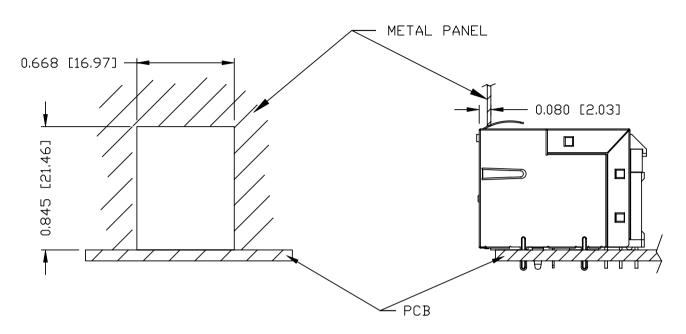
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SUGGESTED PANEL OPENING





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 (BUTTUM)

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
ANTON LIAO	2012-08-07
DRAWN BY	DATE

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

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08211X1T43-F						
FILE NAME						
08211X1T43-F_C.DWG						

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