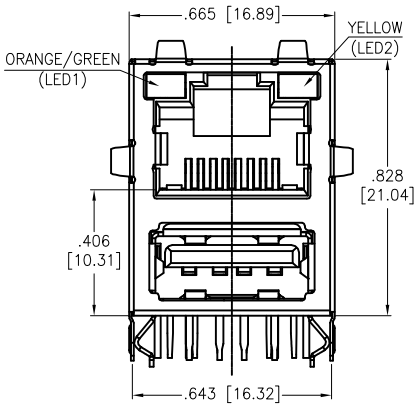
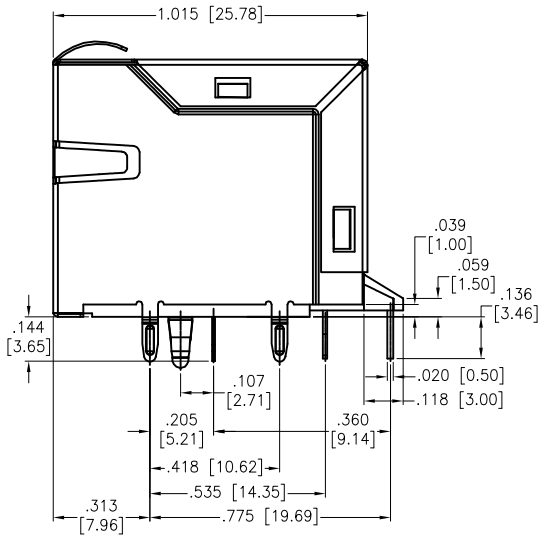
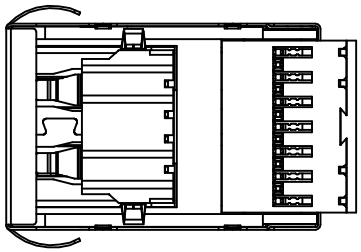
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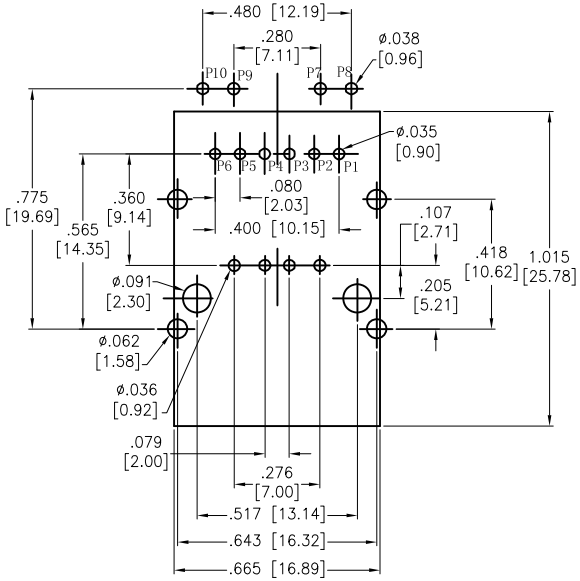
DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-	9785	RELEASED	10/16/09	
A		REDRAWN	02/17/12	
B		REVISED SHAPE & SPEC.	1/2/13	









RECOMMENDED PCB LAYOUT

SPECIFICATIONS:
Material:
Insulator: PBT, glass reinforced , thermoplastic, rated UL 94V-0
Insulator color: Black
Contacts: Phopsphor Bronze
Shield: Copper Alloy, Nickel plated
Plating:
Round contact
Gold over Nickel underplate overall
Flat contact
Gold over Nickel underplate on contact area,
Tin over Nickel underplate on solder tails
(See chart for thickness)
Electrical:
RJ45:
Insulation Resistance: 500M ohm Min
Dielectric Withstanding Voltage: 1000VAC Min
USB:
Contact Current Rating: 1.5A Max
Contact Resistance: 30m ohm Max
Insulation Resistance: 1000M ohm Min
Dielectric Withstanding Voltage: 500VAC Min
Temperature Rating:
Operating temperature: 0°C to +70°C
Environmental:
Lead free, RoHS compliant.

X	PLATING
0	15 µin Gold
1	30 µin Gold
2	50 µin Gold
6	6 µin Gold

RoHS COMPLIANT

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE INCHES [MM]
TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	± .10	Ø.X	±.10
.XX	± .020	Ø.XX	±.015
.XXX	± .015	Ø.XXX	±.010

APPROVALS		DATE
DRAWN	DY	10/16/09
CHECKED		
APPROVED		

ADAM TECH
909 Rahway Avenue, Union, NJ 07083
Phone: 908-687-5000 Fax: 908-687-5710

TITLE: MODULAR JACK GANGED, 1 PORT, 8P8C
RJ45+ USB 2.0 W/LED

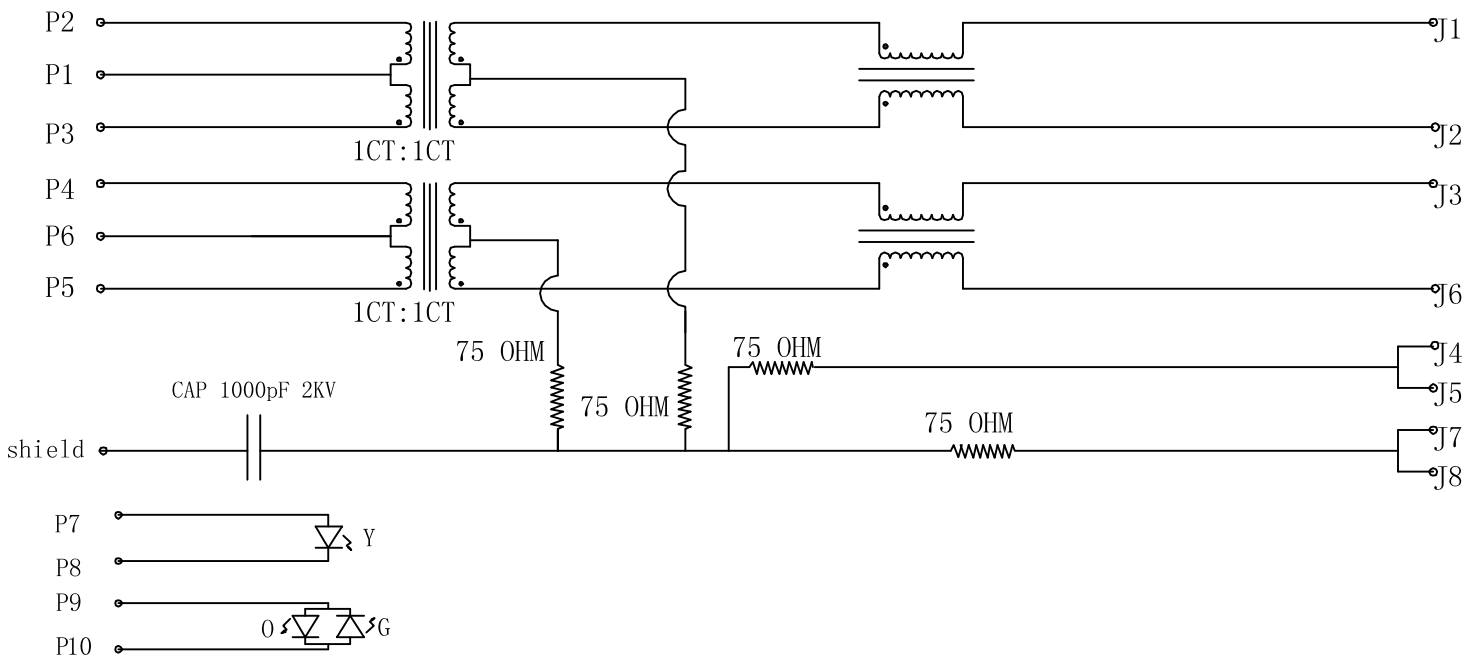
SIZE	PART NO.	REV.
X	MTJ-USB-88JX1-FS-PG-LL-M41	B

REF: S00005C | SCALE: NTS | SHEET 1 OF 2

Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 2 FOR REVISION				

APPROVED: _____

DATE: _____ TITLE: _____



ELECTRICAL SPECIFICATIONS

1. Turns Ratio: (P2 ~ P3) : (J1 ~ J2) 1:1 ±3%
   (P4 ~ P5) : (J3 ~ J6) 1:1 ±3%
2. Inductance: (P2 ~ P3) 350uH min. @ 0.1V, 100KHZ, 8mA DC Bias
   (P4 ~ P5) 350uH min. @ 0.1V, 100KHZ, 8mA DC Bias
3. Leakage Inductance: P2 ~ P3 (with J1 and J2 Short): 0.35uH Max. @ 1 MHZ
   P4 ~ P5 (with J3 and J6 Short): 0.35uH Max. @ 1 MHZ
4. Intertwinding Capacitor: (P2 ~ P3) : (J1 ~ J2): 35pF max. @ 1MHZ
   (P4 ~ P5) : (J3 ~ J6): 35pF max @ 1mhz
5. DC Resistance: (J1 ~ J2) : (J3 ~ J6): 1.2 Ohms Max.
6. Return Loss: 1MHZ to 30MHZ: −18dB min
   30MHZ to 60MHZ: −(18−20log(f/30))dB Min. (Where f is in MHz)
   60MHZ to 80MHZ: −12dB min
7. Dielectric Withstanding: (P2~P3) : (J1~J2): (P4~P5) : (J3~J6) :1500 VAC OR 2250 VDC
8. Insertion Loss: 1MHz TO 100MHz : −1.2dB Max.
9. Cross Talk: 1MHZ to 100MHZ: −30dB Min.
10. Common to Common mode Attention 1MHz to 100MHz: −30dB Min.

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE INCHES [MM]
TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	± .10	Ø.X	±.10
.XX	± .020	Ø.XX	±.015
.XXX	± .015	Ø.XXX	±.010

APPROVALS		DATE
DRAWN	DY	10/16/09
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REF: S00005C | SCALE: NTS | SHEET 2 OF 2