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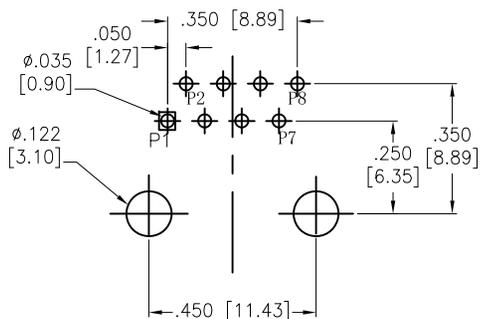
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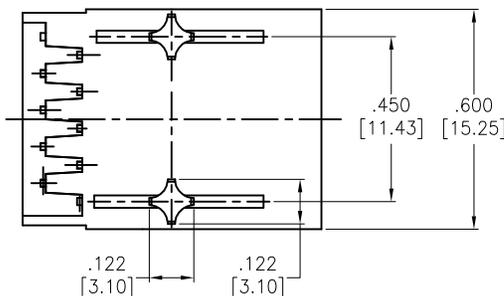
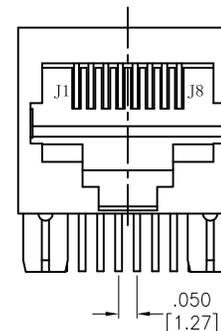
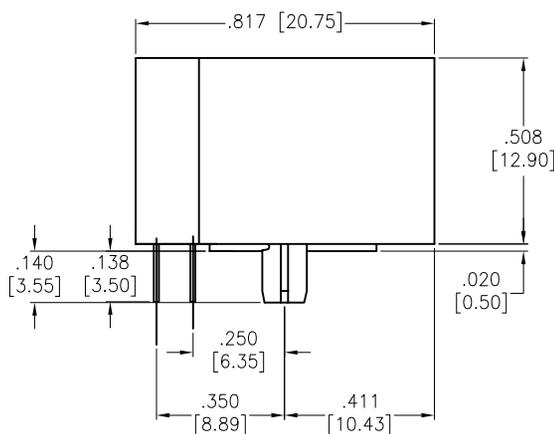
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Rev	AWO #	Description	Date	Appr
-		RELEASED	5/12/10	
A		REDRAWN	8/8/12	
B		ADDED DIM.	10/11/12	
C		UPDATE DRAWING	6/27/19	OW/LW



RECOMMENDED PCB LAYOUT



SPECIFICATIONS:

Material:
 Housing: PA66, rated UL 94V-0, Color: Black
 Insert: PBT, rated UL 94V-0, Color: Black
 Contacts: Copper Alloy

Plating:
 Round contact
 Gold over Nickel underplate overall
 Flat contact
 Gold over Nickel underplate on contact area,
 Tin over Nickel underplate on solder tails

Electrical:
 Operating voltage: 150 VAC
 Contact resistance: 20 mohms max
 Insulation resistance: 500 Mohms min
 Dielectric withstanding voltage: 1500 VAC or 2250 VDC

Temperature Rating:
 Operating temperature: 0°C to +70°C

Environmental:
 Lead free, RoHS compliant.



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

.X ± .10	∅X ± .10
.XX ± .020	∅XX ± .015
.XXX ± .015	∅XXX ± .010

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

APPROVALS		DATE
DRAWN	DY	5/12/10
CHECKED		
APPROVED		

TITLE MODULAR JACK, 1 PORT, 8P8C WITH TRANSFORMERS		
SIZE X	PART NO. MTJ-88TX1-M4	REV. C
REF: S00005C	SCALE: NTS	SHEET 1 OF 2

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APPROVED: _____

DATE: _____ TITLE: _____

Rev | AWO # | Description | Date | Appr

SEE SHT 1 OF 2 FOR REVISION

Circuit Schematic:

The schematic shows a circuit for a modular jack. It features two transformers with a 1CT:1CT ratio. The primary windings are connected to ports P1, P2, P3, P4, P5, and P6. The secondary windings are connected to ports J1, J2, J3, J4, J5, and J6. A capacitor labeled 'CAP 1000pF 2KV' is connected between port P8 and the common line. There are three 75 OHM resistors: one between the common line and port J8, and two between the common line and ports J4 and J5.

Electronical Specifications:

- Turn Ratio @100KHz: (P1~P2):(J1~J2) = 1:1±5%
(P3~P6):(J3~J6) = 1:1±5%
- Primary Inductance: 350uH MIN @100KHZ,0.1V 8mA DC BIAS
- DC Resistance:(J1~J2):(J3~J6) 1.2 OHMS MAX
- Insertion Loss: 1-100MHz -1.2dB MAX
- Return Loss: 1-30MHz -16dB MIN
30-60MHz -12dB MIN
60-80MHz -10dB MIN
- CROSS TALK: 1-100MHz -30dB MIN
- COMMON TO COMMON MODE ATTENUATION: 1-100MHz -30dB MIN
- Isolation: PHY Side to Line Side: 1500VAC or 2250VDC

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

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TITLE
MODULAR JACK, 1 PORT, 8P8C
WITH TRANSFORMERS

APPROVALS		DATE
DRAWN	DY	5/12/10
CHECKED		
APPROVED		

SIZE	PART NO.	REV.
X	MTJ-88TX1-M4	C
REF: S00005C	SCALE: NTS	SHEET 2 OF 2

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