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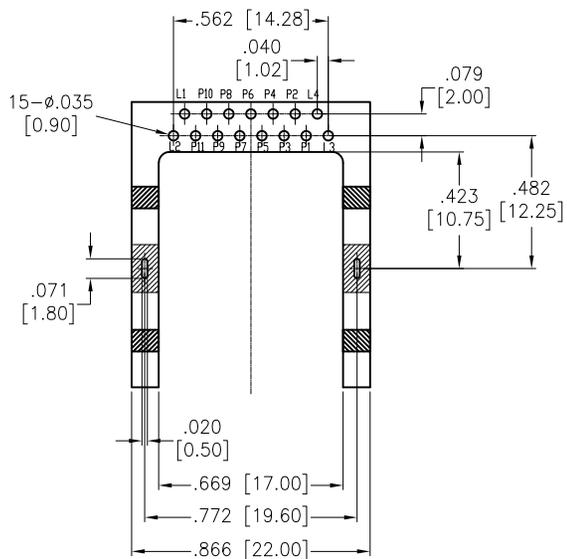
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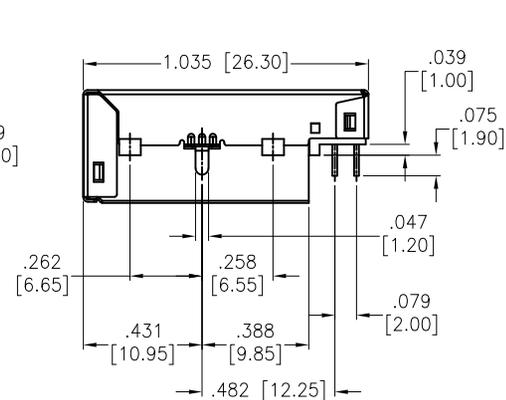
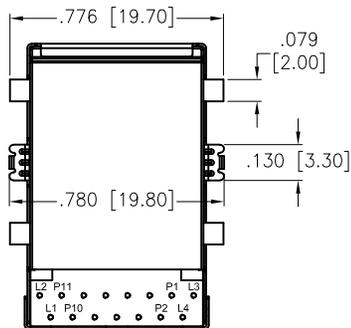
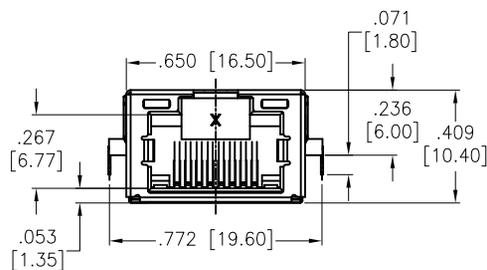
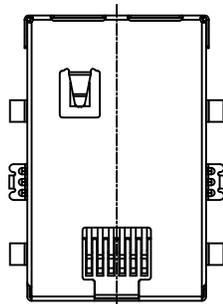
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DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
-		RELEASED	3/14/19	



RECOMMENDED PCB LAYOUT



PACKAGED ON TAPE & REEL

SPECIFICATIONS:

Material:  
 Insulator: Hi-Temp Thermoplastic, rated UL 94V-0  
 Insulator color: Black  
 Contacts: Copper Alloy  
 Shield: Brass, Nickel plated  
 Plating:  
 Gold over Nickel underplate on contact area,  
 Tin over Nickel underplate on solder tails  
 Electrical:  
 Voltage rating: 150 VAC  
 Contact Resistance: 20 mohms max  
 Insulation resistance: 500 Mohms min  
 Dielectric withstanding voltage: 1500VAC 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		<b>ADAM TECH</b> 909 Rahway Avenue, Union, NJ 07083 Phone: 908-687-5000 Fax: 908-687-5710	
INCHES		HOLES	
.X ± .10	∅X ± .10	<b>INTERCONNECTS</b> TITLE: MODULAR TELEPHONE JACK, 1 PORT, 8P8C FULL SHIELDED, W/ LED, HI-TEMP SIZE: X PART NO: MTJ-88BX1-FS-LH-M5C-HT-T/R REV: - REF: S00005C SCALE: NTS SHEET 1 OF 2	
.XX ± .020	∅XX ± .015		
.XXX ± .015	∅XXX ± .010		
APPROVALS		DATE	
DRAWN: AY	CHECKED: YC	3/14/19	
APPROVED: _____			

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 DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

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

The schematic diagram shows a modular telephone jack circuit. On the left, there are eight pins labeled P1 through P8. P8 is connected to a capacitor labeled 'CAP 1000pF 2KV'. P1, P2, P3, P4, P5, and P6 are connected to two transformers, each labeled '1CT:1CT'. The secondary windings of these transformers are connected to pairs of pins: P1 and P2 to J1 and J2; P3 and P4 to J3 and J4; P5 and P6 to J5 and J6. There are also two 75 OHM resistors connected between P7 and J7, and between P8 and J8. The right side of the diagram shows eight pins labeled J1 through J8.

Legend for pin colors and markings:  
 L2 (Green, +)  
 L1 (Green, -)  
 L4 (Yellow, +)  
 L3 (Yellow, -)

Pin	Green		Yellow
L2	+	L4	+
L1	-	P3	-

Electronical Specifications:

- Turn Ratio @100KHz: (P1~P3):(J1~J2) = 1:1±5%  
(P4~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 -1.0dB MAX
- Return Loss: 1-30MHz -18dB MIN  
30-60MHz -15dB MIN  
60-80MHz -12dB 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

APPROVALS		DATE
DRAWN	AY	3/14/19
CHECKED	YC	3/14/19
APPROVED		

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

TITLE: MODULAR TELEPHONE JACK, 1 PORT, 8P8C  
 FULL SHIELDED, W/ LED, HI-TEMP

SIZE X	PART NO. MTJ-88BX1-FS-LH-M5C-HT-T/R	REV. -
REF: S00005C	SCALE: NTS	SHEET 1 OF 2

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