

## INTRODUCTION:

Adam Tech ADC Series DC Power Jacks are a complete line of miniature and sub-miniature power jacks primarily used for the transmission of wall current transformed to DC power, for detached and hand held instruments. Adam Tech power jacks are manufactured with a variety of center pin sizes for all standard applications including 1.00mm, 1.30mm, 2.00mm and 2.50mm. Our contact is designed using a wide spring grade plated copper alloy for exceptional plug retention and low contact resistance.

## FEATURES:

- Low Profile designs
- Superior contact system
- Exceptional plug retention
- Choice of Center pin sizes
- Hi Temp Versions
- Hi Current Versions

## MATING PLUGS:

All industry standard 1.00mm, 1.30mm, 2.00mm, 2.35mm and 2.50mm Plugs.

## SPECIFICATIONS:

### Material:

Standard insulator: PBT Glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Black  
Center Pin: Brass, Nickel plated  
Contacts: Copper alloy

### Contact Plating:

Silver over nickel underplate

### Electrical:

Operating voltage: 12V DC max.  
Current rating: 1 Amp max.  
Contact resistance: 30 mΩ max. initial  
Insulation resistance: 50 MΩ min.  
Dielectric withstanding voltage: 250V AC for 1 minute

### Mechanical:

Insertion force: 3 kg max.  
Withdrawal force: 0.3 kg min  
Mating durability: 5000 cycles min.

### Temperature Rating:

Operating temperature: -25°C to +85°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

## PACKAGING:

Anti-ESD plastic bags or Tape and Reel

## APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053

**HI-TEMP  
INSULATOR  
AVAILABLE**



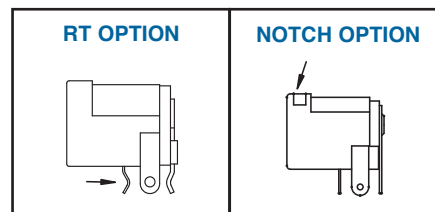
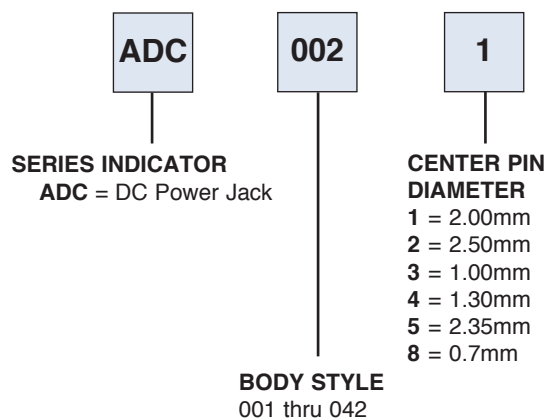
# DC POWER JACKS

## PC BOARD AND PANEL MOUNT

### ADC SERIES



## ORDERING INFORMATION



## OPTIONS:

Add designator(s) to end of part number

**RT** = PC Board Retention Feature  
(Type 007 & 009 only)

**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

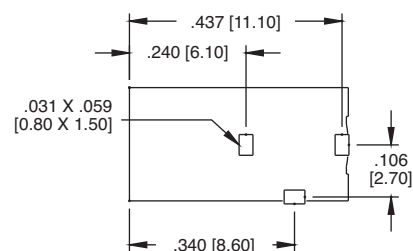
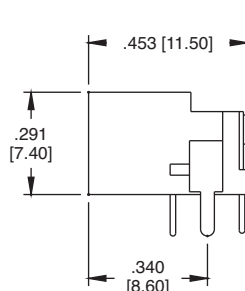
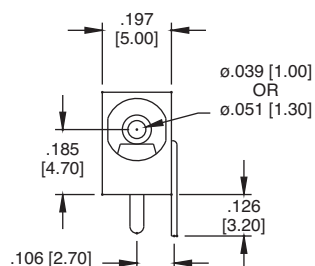
**N** = Notch option, (ADC-002 only)

**ADCH** = DC Power Jack Hi-Current 5 Amp Version

### ADC-007



ADC-007-3

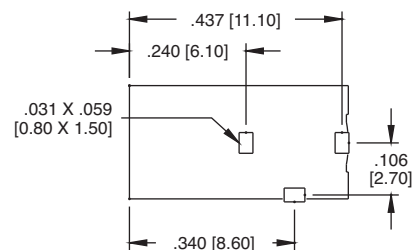
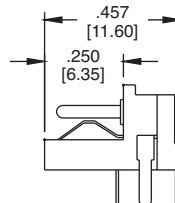
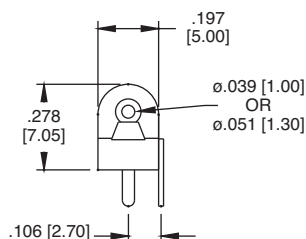


Recommended PCB Layout

### ADC-009

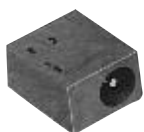


ADC-009-3

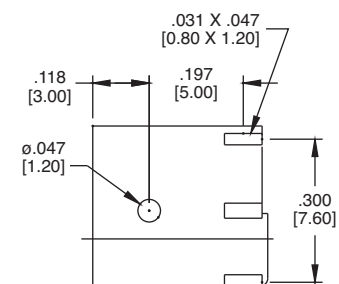
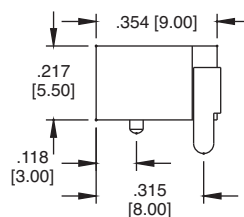
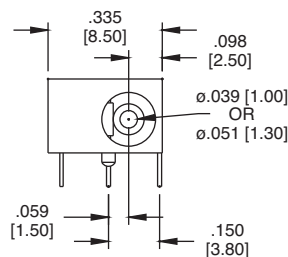


Recommended PCB Layout

### ADC-011



ADC-011-3

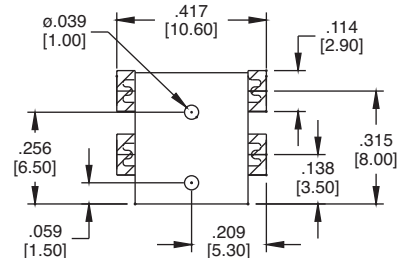
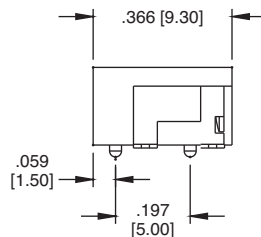
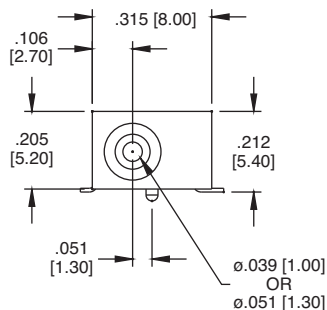


Recommended PCB Layout

### ADC-021



ADC-021-3

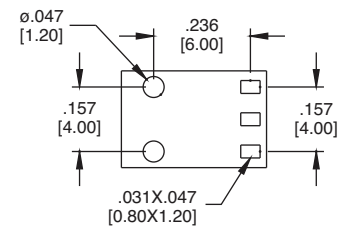
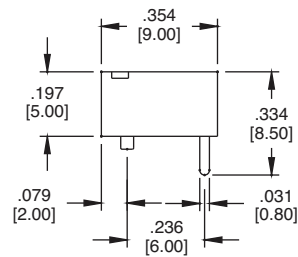
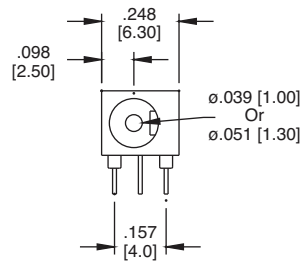


Recommended PCB Layout

## ADC-029



ADC-029-1

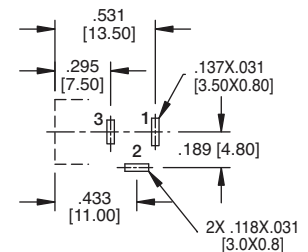
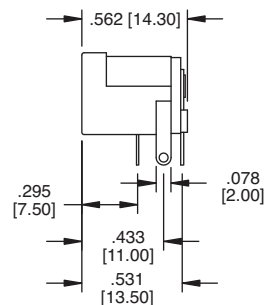
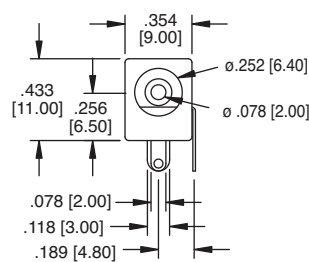


Recommended PCB Layout

## ADC-002



ADC-002-2

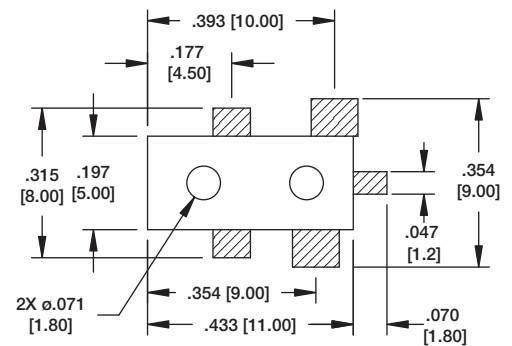
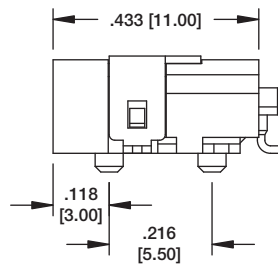
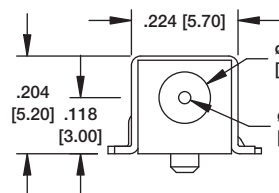


Recommended PCB Layout

## ADC-024



ADC-024-8

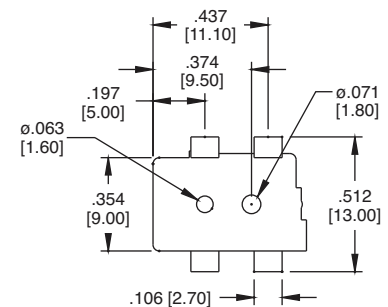
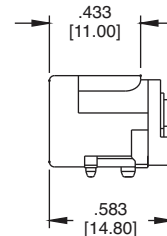
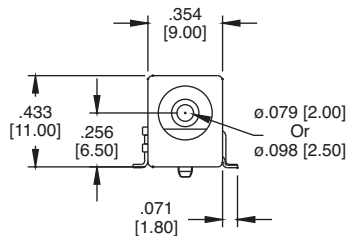


Recommended PCB Layout

## ADC-028



ADC-028-2



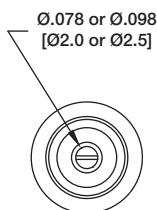
Recommended PCB Layout

#### ADC-027

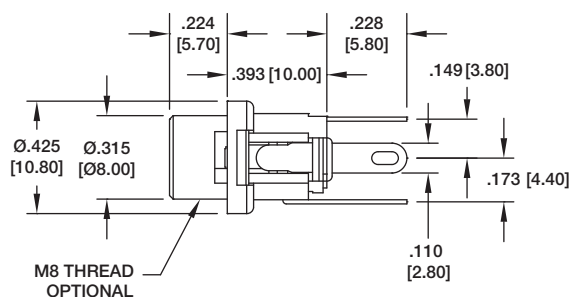


ADC-027

ADC-027-M8



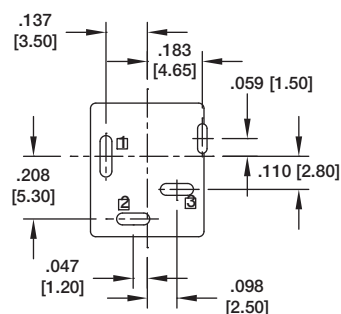
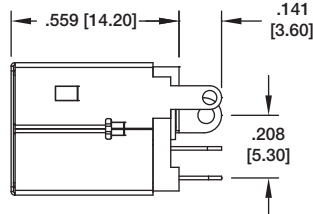
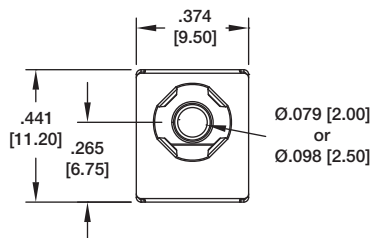
Ø.078 or Ø.098  
[Ø2.0 or Ø2.5]



#### ADC-085



ADC-085-1

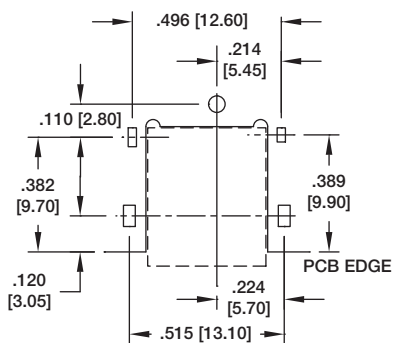
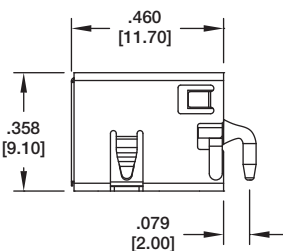
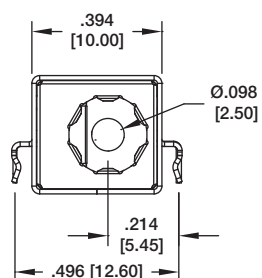


Recommended PCB Layout

#### ADC-086



ADC-085-2

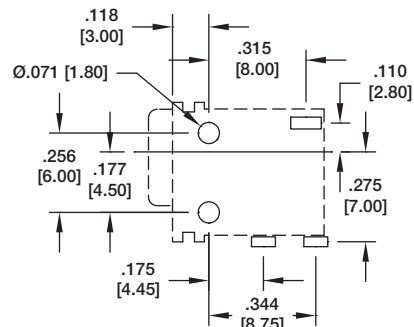
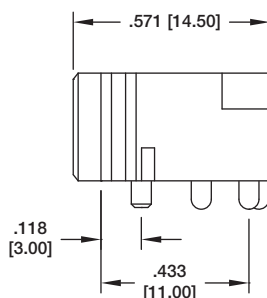
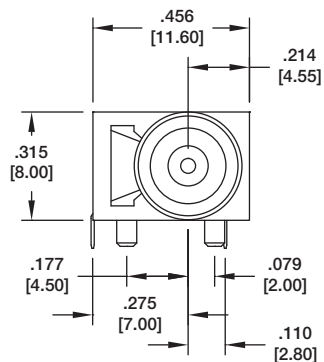


Recommended PCB Layout

#### ADC-087



ADC-087

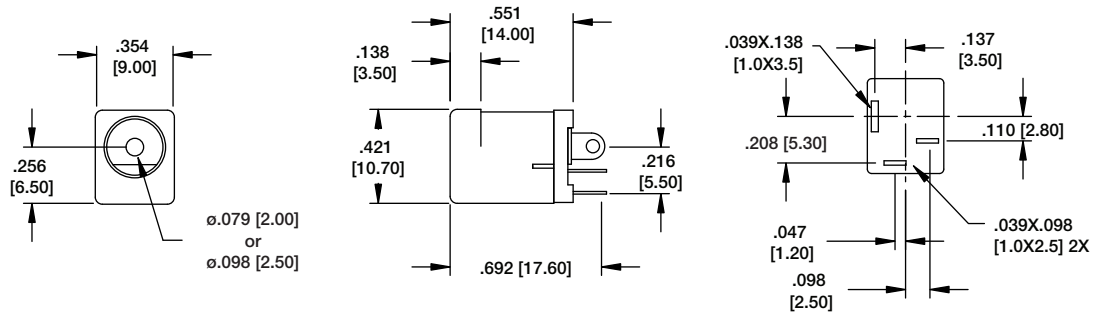


Recommended PCB Layout

## ADC-010



ADC-010-1

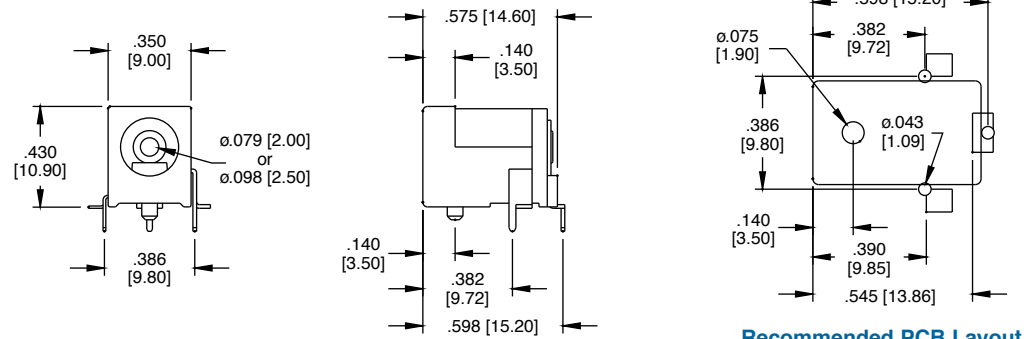


Recommended PCB Layout

## ADC-015



ADC-015-2

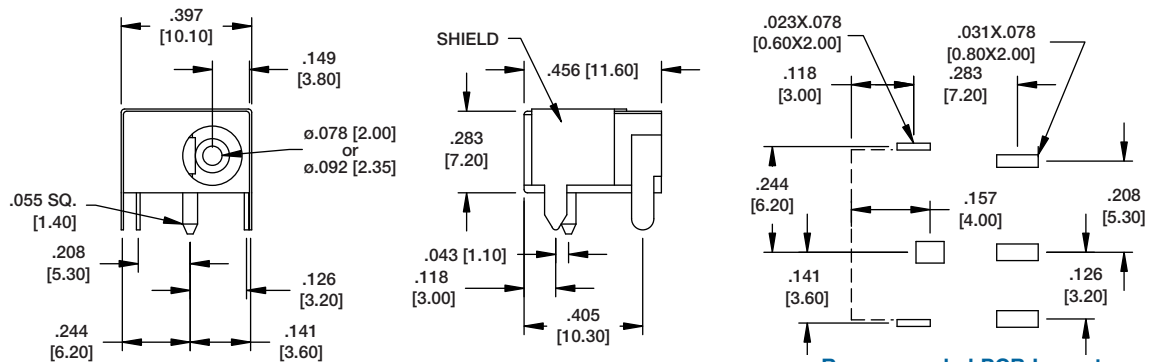


Recommended PCB Layout

## ADC-045A

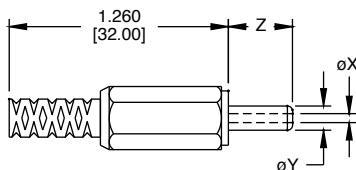


ADC-045A-1

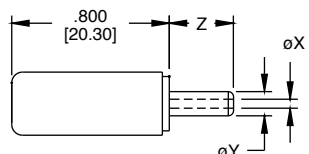


Recommended PCB Layout

## ADP-PLUG WITH STRAIN RELIEF



## ADP-PLUG WITHOUT STRAIN RELIEF



| PLUG WITH STRAIN RELIEF | X                  | Y                  | Z           |
|-------------------------|--------------------|--------------------|-------------|
| ADP-X/Y/Z-SR            | $\phi .039$ [1.00] | $\phi .137$ [3.50] | .374 [9.50] |
| ADP-X/Y/Z-SR            | $\phi .082$ [2.10] | $\phi .216$ [5.50] | .374 [9.50] |
| ADP-X/Y/Z-SR            | $\phi .098$ [2.50] | $\phi .216$ [5.50] | .374 [9.50] |

| PLUG WITHOUT STRAIN RELIEF | X                  | Y                  | Z           |
|----------------------------|--------------------|--------------------|-------------|
| ADP-X/Y/Z                  | $\phi .039$ [1.00] | $\phi .137$ [3.50] | .374 [9.50] |
| ADP-X/Y/Z                  | $\phi .082$ [2.10] | $\phi .216$ [5.50] | .374 [9.50] |
| ADP-X/Y/Z                  | $\phi .098$ [2.50] | $\phi .216$ [5.50] | .374 [9.50] |