

INTRODUCTION:

Adam Tech MDJ Series Mini DIN Jacks continue to be a popular, high density, low cost, low profile interconnect solution. Available in a multitude of styles and configurations, they are able to satisfy a broad range of applications. This series offers jacks in 3 thru 9 positions with straight, right angle or panel mounting and offers choice of four different shielding and panel grounding options. Color-coded jacks for port identification are also available. Adam Tech's special contact design offers a high reliability connection with extremely low contact resistance.

FEATURES:

Wide Range of Styles
Right Angle, Straight and Panel Mount types
Shielding Options for EMI/RFI suppression
Color-Coded versions

MATING PLUGS:

All industry standard circular Mini DIN plugs.

SPECIFICATIONS:

Material:

Standard insulator: PBT glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black standard, custom colors available
Contacts: Phosphor Bronze
Shield: Copper Alloy, Tin Plated

Contact Plating:

Gold over Nickel underplate on contact area, tin over Copper underplate on tails

Electrical:

Operating voltage: 100V AC / 12V DC max.
Current rating: 1 Amp max. / 2 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 9.9 lbs max.
Withdrawal force: 0.8 lbs min
Mating durability: 5000 cycles min.

Temperature Rating:

Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

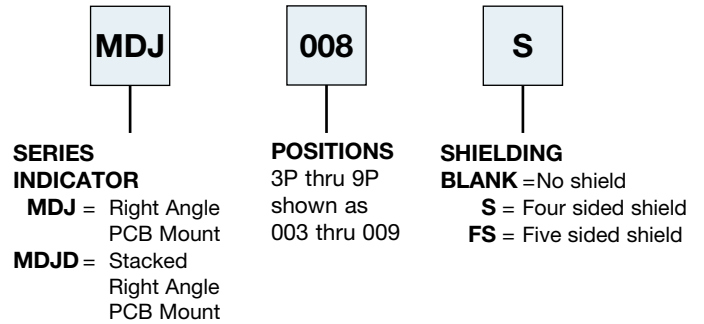
APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053

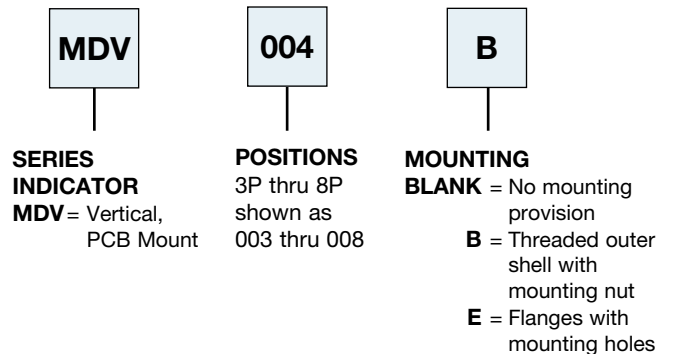


ORDERING INFORMATION

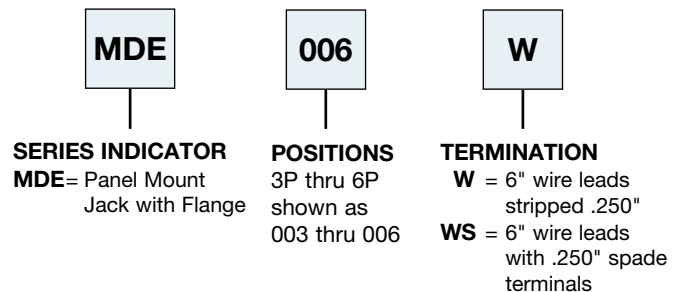
RIGHT ANGLE MOUNT



VERTICAL MOUNT



PANEL MOUNT



OPTIONS:

Add designator(s) to end of part number

RT = PC board retention feature. On shielded units, crimped shield legs. On non-shielded units, forked grounding pin.

PG = Spring panel ground

PG4 = Four finger panel ground

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

TGBP = Top port color Green / Bottom port color Purple

MDJ SERIES
MINI DIN JACK-UNSHIELDED

MDJ-008

MDJ SERIES
MINI DIN JACK WITH FOUR SIDED SHIELD

MDJ-009-S

MDJ SERIES
MINI DIN JACK FULLY SHIELDED

MDJ-008-FS

MATING FACE CONFIGURATIONS

3 Position **4 Position** **5 Position**

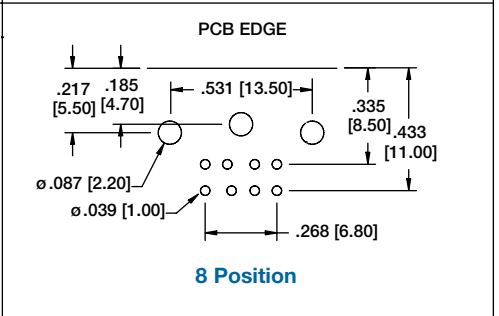
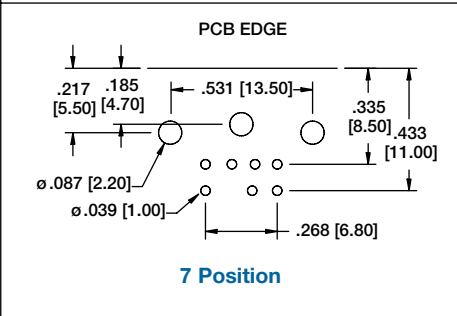
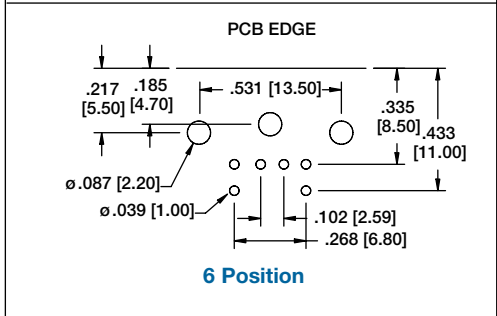
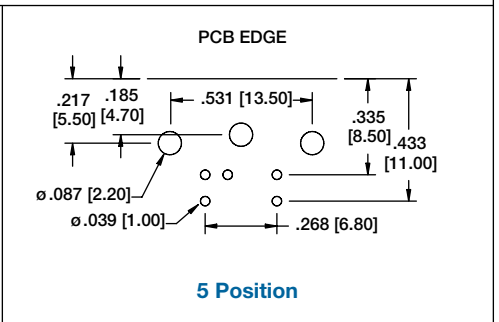
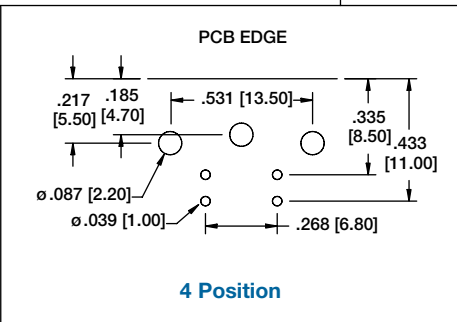
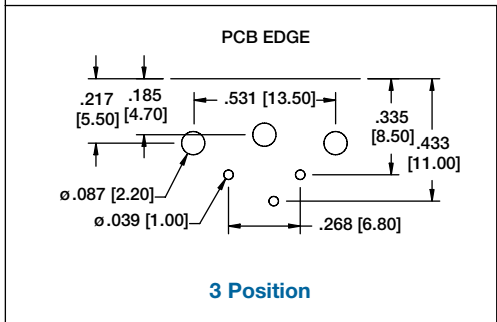
6 Position **7 Position** **8 Position**

9 Position **9A Position**

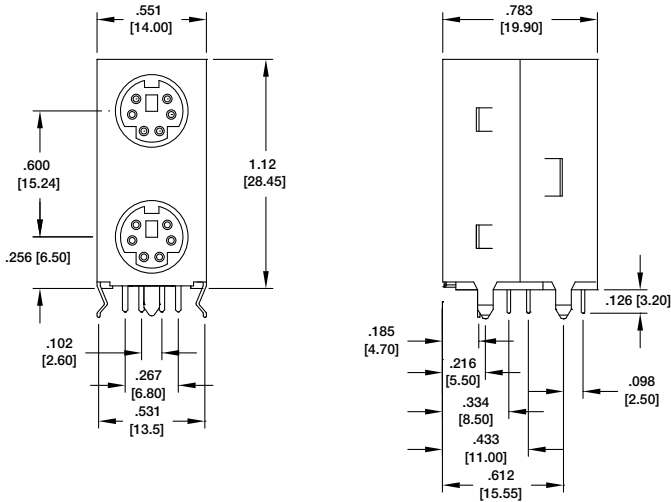
PANEL GROUND OPTIONS

MDJ-009-FS-PG **Spring Panel Ground**

MDJ-008-FS-PG4 **Four Finger Panel Ground**



**MDJD SERIES
STACKED
MINI DIN JACK
FULLY SHIELDED**



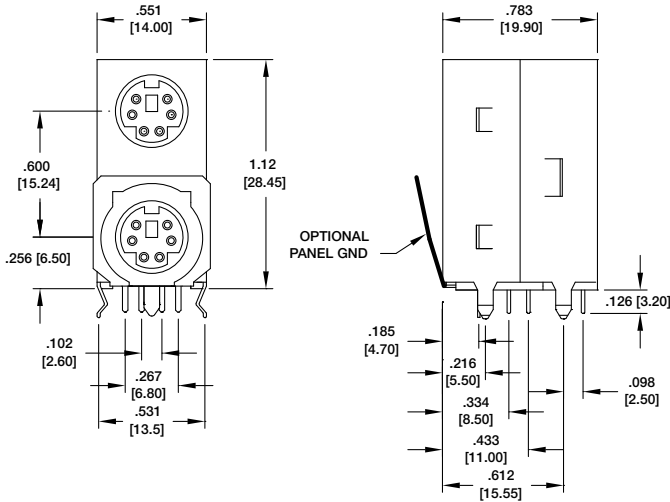
6 POSITION



4 POSITION



MDJD-006-S-RT



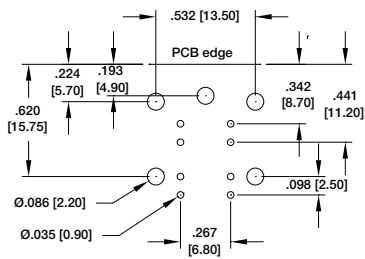
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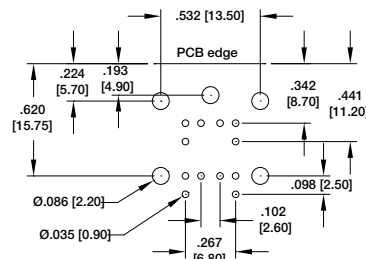
4 POSITION



MDJD-006-S-RT-PG



4 Position



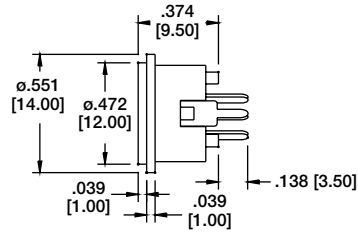
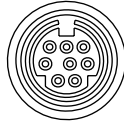
6 Position

Recommended PCB Layout

MDV SERIES VERTICAL MINI DIN JACK



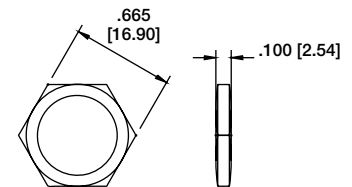
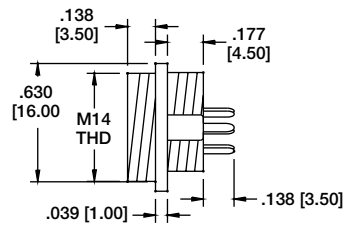
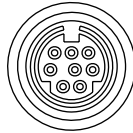
MDV-008



MDV SERIES VERTICAL MINI DIN JACK WITH THREADED SHELL

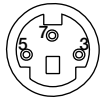


MDV-005-B

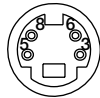


MATING FACE CONFIGURATIONS

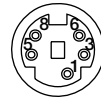
3 POSITION



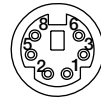
4 POSITION



5 POSITION



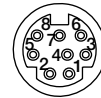
6 POSITION



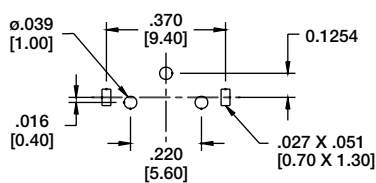
7 POSITION



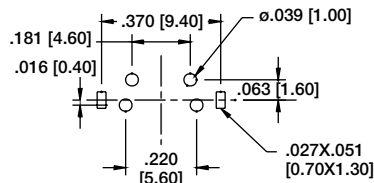
8 POSITION



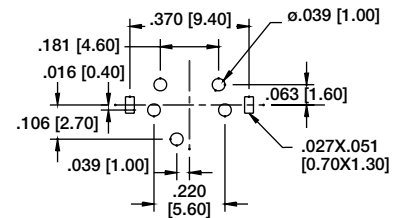
Recommended PCB Layouts



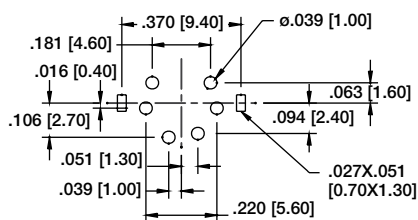
3 Position



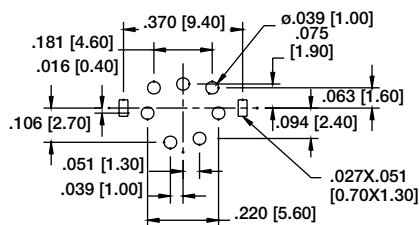
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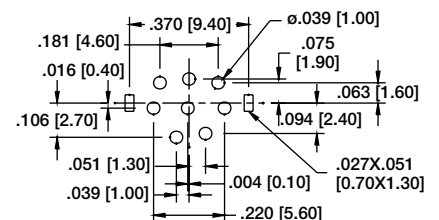
5 Position



6 Position



7 Position



8 Position

INTRODUCTION:

Adam Tech Mini DIN Power Jack and Plug system is specifically designed to incorporate power and signal transmissions in the same small low-profile package. This combination eliminates the need of separate power and signal components on the PC Board. In addition to component savings, labor is reduced and aesthetic value is increased by the reduction of additional cables. This system features three or four contact versions and a quick-lock mating system.

FEATURES:

Combination signal and power
Small, compact light weight design
3P & 4P available
Shielded versions available

MATING OPTIONS:

Mates with all industry standard combination power jacks.

SPECIFICATIONS:

Material:

Standard insulator: PBT glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black standard, custom colors available
Contacts: Phosphor Bronze
Plastic Shell: PVC
Shield: Copper Alloy, Tin Plated

Contact Plating:

Silver over Nickel underplate overall

Electrical:

Operating voltage: 30V DC max.
Current rating: Power contact: 7 Amps max.
Signal contacts: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 250 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 1.8 lbs max.
Withdrawal force: 0.22 lbs min

Temperature Rating:

Operating temperature: -25°C to +70°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

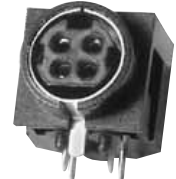
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



MPJ-3P

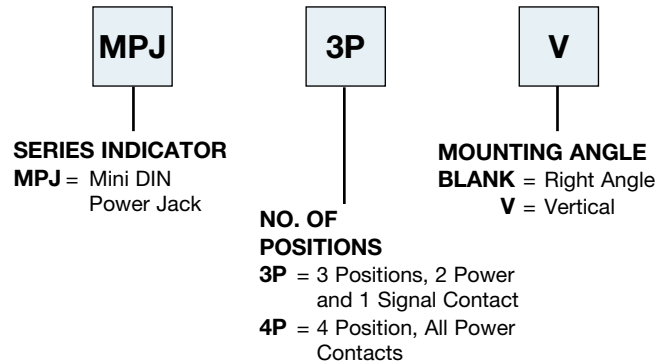


MPJ-4P

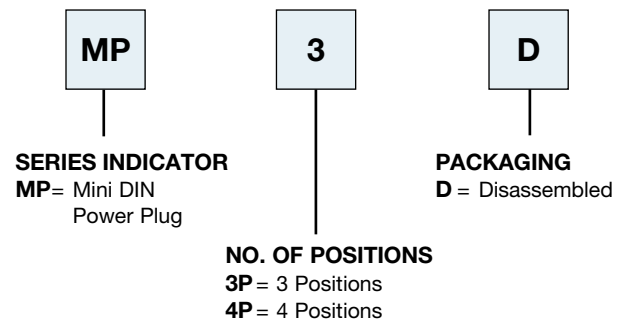


MPJ-4P-S

ORDERING INFORMATION POWER JACK



POWER PLUG



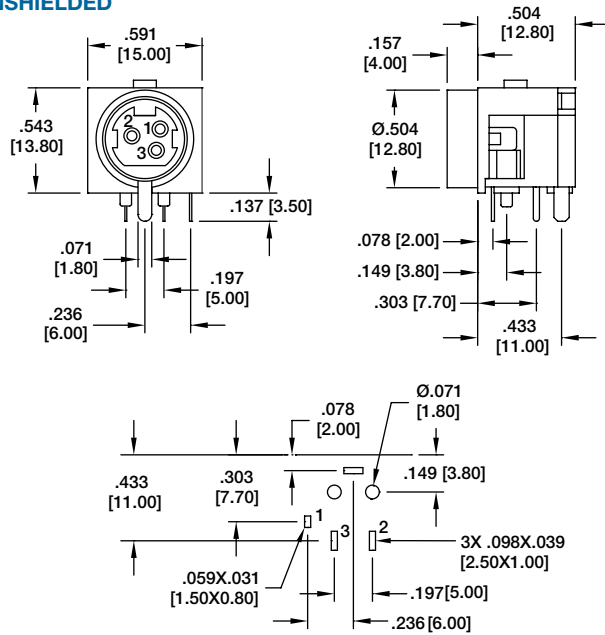
OPTIONS:

Add designator(s) to end of part number

S = Shielded

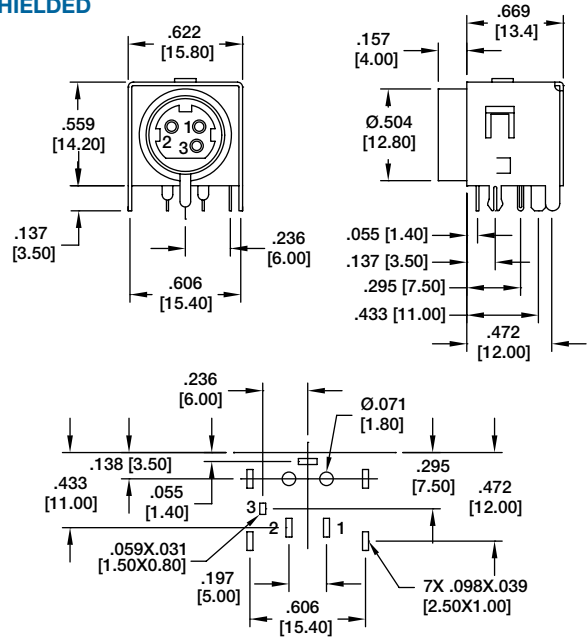
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

MPJ-3P UNSHIELDED



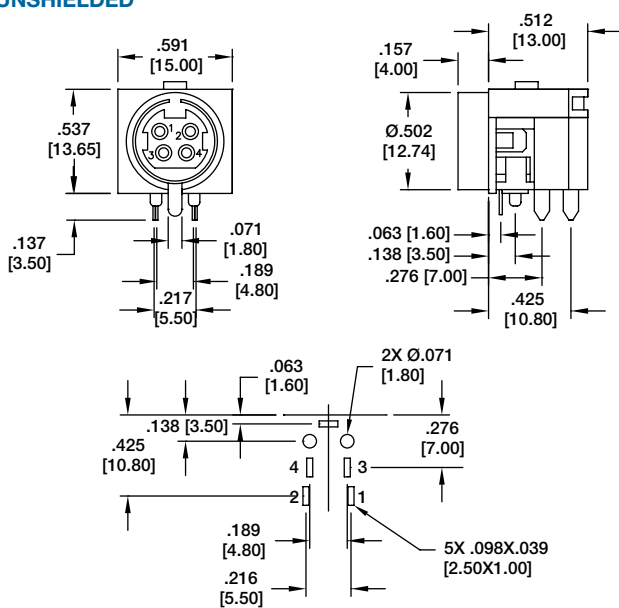
Recommended PCB Layout (Top View)

MPJ-3P-S SHIELDED



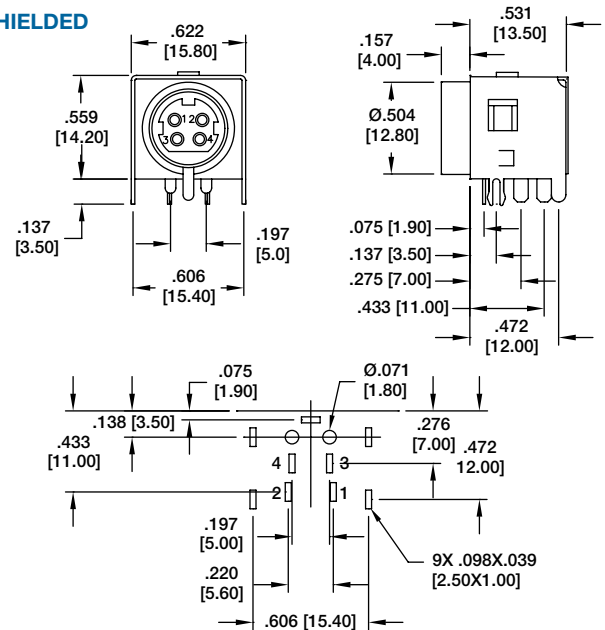
Recommended PCB Layout (Top View)

MPJ-4P UNSHIELDED



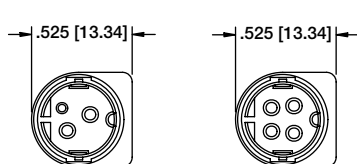
Recommended PCB Layout (Top View)

MPJ-4P-S SHIELDED



Recommended PCB Layout (Top View)

MP SERIES POWER PLUG



MP-3P-D

MP-4P-D

