

INTRODUCTION

Adam Tech Right Angle .283" footprint Machine Contact PCB D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a high reliability industry standard connection. These connectors are manufactured with precision machine turned contacts and offer an exceptional high reliability connection. They are available in a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Exceptional Machine Contact connection
- Industry standard compatibility
- Durable metal shell design
- Precision turned screw machined contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
 Insulator Colors: White (Black optional)
 Contacts: Phosphor Bronze
 Shell: Steel, Tin plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 µin Optional) over Nickel underplate.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
 CSA Certified File No. LR1578596



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
 15 = 15 µin gold plating in contact area
 30 = 30 µin gold plating in contact area
 BK = Black insulator
 HT = Hi-Temp insulator for Hi-Temp
 soldering processes up to 260°C

PLUG

.112 [2.84]
 .405 [10.28]
 .235 [5.97]
 .125 [3.18]
 .112 [2.84]
 .329 [8.36] .494 [12.55]
 #4-40 UNC
 C
 B
 A
 D
 ø.120 [3.05]

X = FO OTPRINT DISTANCE
 C = .283 [7.20] FOOTPRINT
 G = .370 [9.40] FOOTPRINT
 F = .545 [13.84] FOOTPRINT

Choice of Plastic or Metal Bracket
Metal Bracket version shown

PCB MOUNTING OPTIONS

Option 1: Without Bracket

Option 2: Bracket with Board Lock

Option 3: Bracket with .120" Mounting Hole

SOCKET

.112 [2.84]
 .405 [10.28]
 .235 [5.97]
 .125 [3.18]
 .112 [2.84]
 .329 [8.36] .494 [12.55]
 #4-40 UNC
 C
 B
 A
 D
 ø.120 [3.05]

X = FO OTPRINT DISTANCE
 C = .283 [7.20] FOOTPRINT
 G = .370 [9.40] FOOTPRINT
 F = .545 [13.84] FOOTPRINT

Choice of Plastic or Metal Bracket
Metal Bracket version shown

MATING FACE MOUNTING OPTIONS

Option C: .120" Mounting Hole

Option D: #4-40 Threaded Insert

Option E: #4-40 Threaded Insert with removable Jack Screws

.109 [2.77]
 .112 [2.84]
 ø.043 [1.09]
 ø.125 [3.18]

Recommended PCB Layout 9, 15, 25 & 37 Position

.109 [2.77]
 .112 [2.84]
 ø.043 [1.09]
 ø.125 [3.18]

Recommended PCB Layout 50 Position

Unit: Inch / mm

| Positions | PLUG | SOCKET | DIMENSIONS | | |
|-----------|---------------|---------------|---------------|---------------|---------------|
| | A | A | B | C | D |
| 9 | .666 [16.92] | .643 [16.33] | .984 [24.99] | 1.213 [30.81] | .436 [11.08] |
| 15 | .994 [25.25] | .971 [24.66] | 1.312 [33.32] | 1.541 [39.14] | .763 [19.39] |
| 25 | 1.534 [38.96] | 1.511 [38.38] | 1.852 [47.04] | 2.088 [53.04] | 1.310 [33.24] |
| 37 | 2.182 [55.43] | 2.159 [54.84] | 2.500 [63.50] | 2.729 [69.32] | 1.963 [49.86] |
| 50 | 2.790 [52.80] | 2.016 [52.34] | 2.402 [61.00] | 2.646 [67.20] | 1.744 [44.32] |