

### 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  $\mu$ m Optional) over Nickel underplate.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 m $\Omega$  max. initial  
 Insulation resistance: 5000 M $\Omega$  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  $\mu$ m gold plating in contact area  
 30 = 30  $\mu$ m 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  
 "X"  
 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  
 X  
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 ø.120 [3.05]

X = FO OTPRINT DISTANCE  
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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**

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

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]