

#### INTRODUCTION:

Adam Tech Right Angle SMT Slimline D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

#### FEATURES:

- Short profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

#### MATING CONNECTORS:

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

#### SPECIFICATIONS:

##### Material:

Insulator: Hi-Temperature thermoplastic, rated UL94V-0  
Insulator Color: Black  
Contacts: Phosphor Bronze or Brass  
Shell: Steel, Tin or Zinc plated  
Hardware: Brass, Nickel plated

##### Contact Plating:

Gold over Nickel underplate on contact area.

##### Electrical:

Operating voltage: 250V AC / DC max.  
Current rating: 1 Amp 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: -55°C to +105°C  
Soldering process temperature: 260°C

##### PACKAGING:

Anti-ESD plastic trays

##### APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



#### ORDERING INFORMATION

DB25

SS

24

##### SHELL SIZE/ POSITIONS

DE09 = 9 Positions  
DB25 = 25 Positions  
HDL15 = High Density  
15P

##### MOUNTING OPTIONS

24 = Forked Boardlocks  
for PCB Retention and  
#4-40 threaded inserts  
in mounting holes  
25 = Forked Boardlocks  
for PCB retention and  
#4-40 threaded inserts  
in mounting holes with  
installed jackscrews

##### CONTACT / TYPE

PS = Plug Surface Mount  
SS = Socket Surface Mount

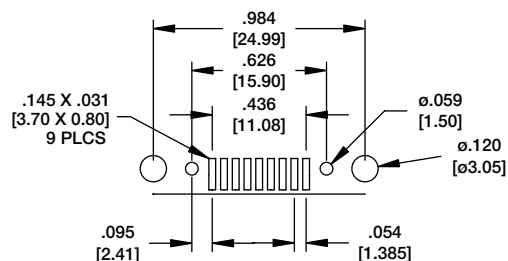
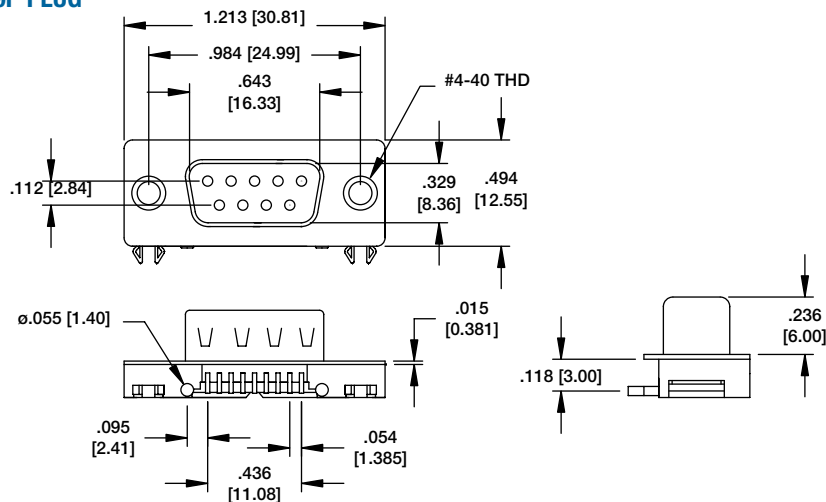
#### OPTIONS:

Add designator(s) to end of part number

15 = 15 μin gold plating in contact area  
30 = 30 μin gold plating in contact area  
R = Round jackscrews



#### 9P PLUG



Recommended PCB Layout

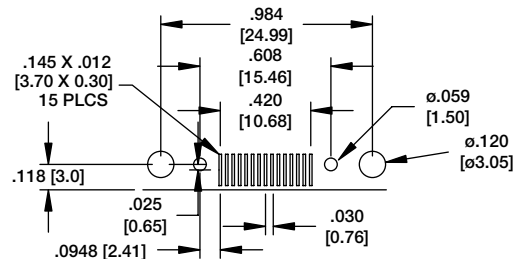
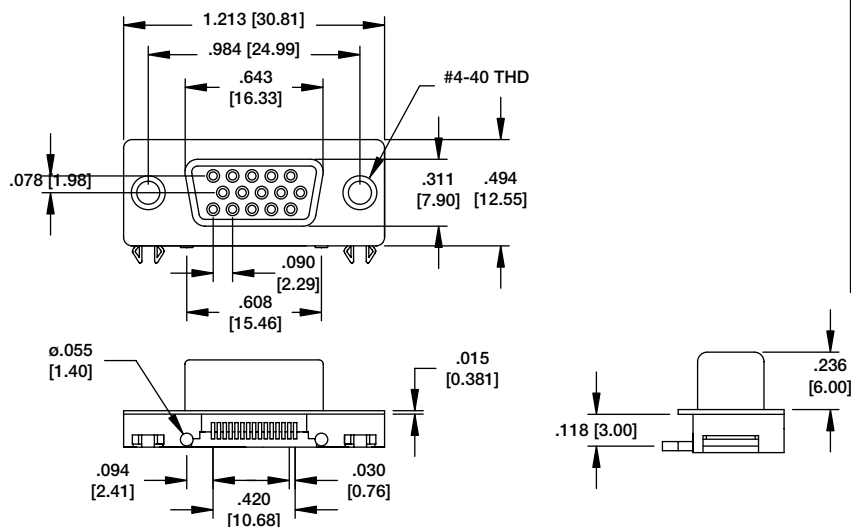


DE09-SS-24

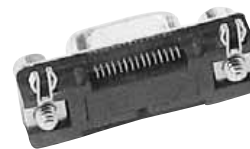


DE09-PS-25

#### HD15 SOCKET

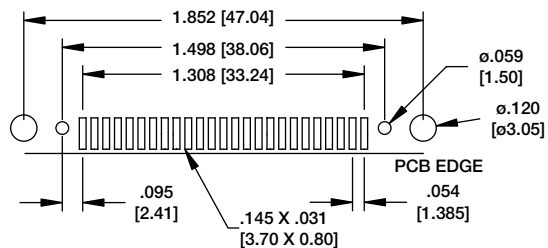
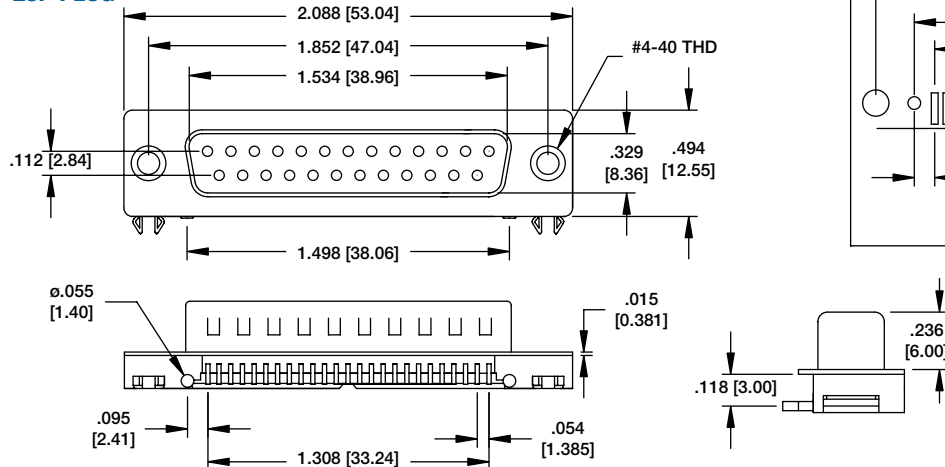


Recommended PCB Layout



HDL15-SS-25

#### 25P PLUG



DB25-PS-24

#### INTRODUCTION

Adam Tech Right Angle .283" footprint D-Sub connectors with Screw Machine Contacts 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 over Nickel underplate on contact area.

##### 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: -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

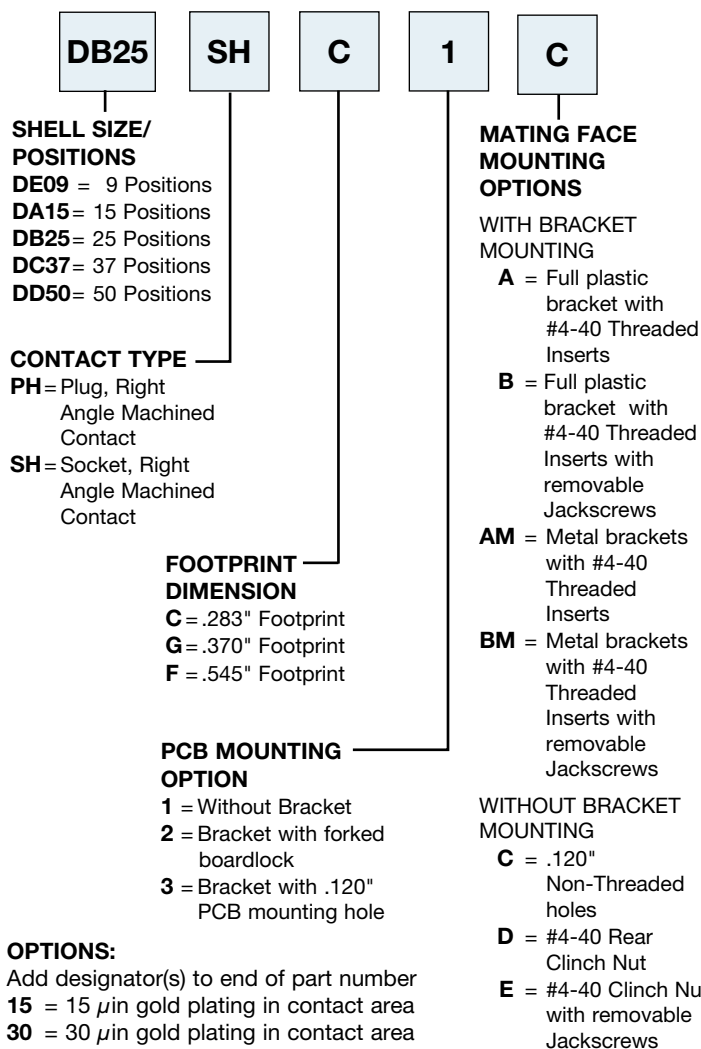


DB25-PH-C-3-AM

DB25-SH-C-2-B

DB25-PH-C-1-C

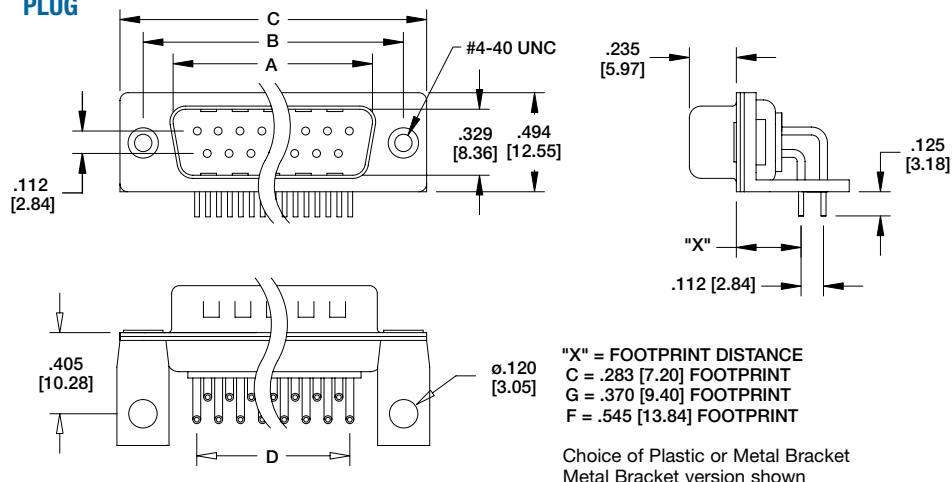
#### ORDERING INFORMATION



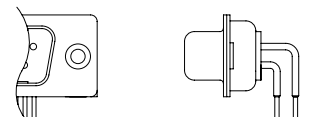
#### OPTIONS:

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

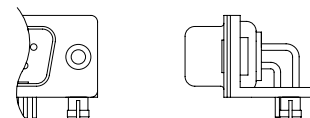
#### PLUG



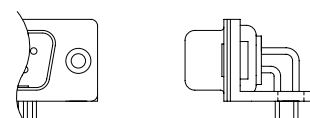
#### PCB MOUNTING OPTIONS



Option 1: Without Bracket

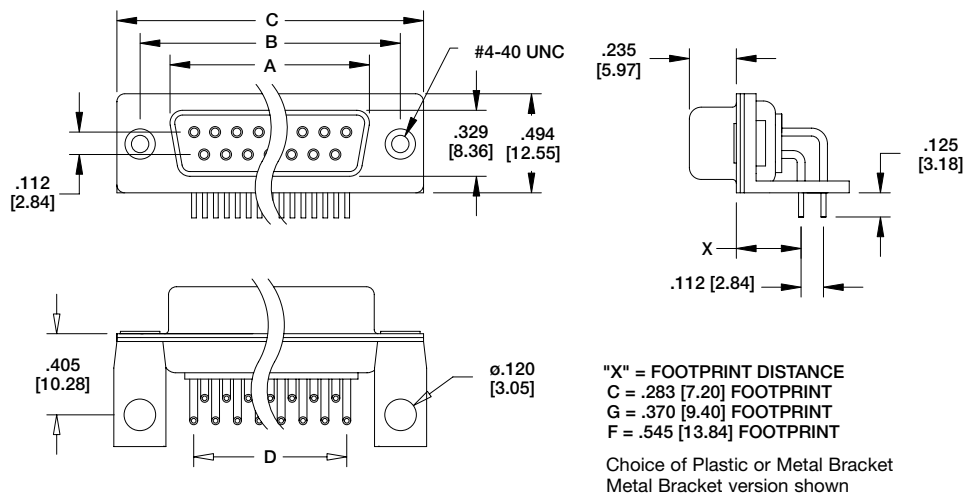


Option 2: Bracket with Board Lock

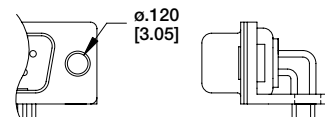


Option 3: Bracket with .120" Mounting Hole

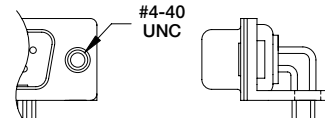
#### SOCKET



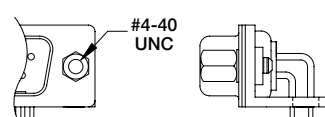
#### MATING FACE MOUNTING OPTIONS



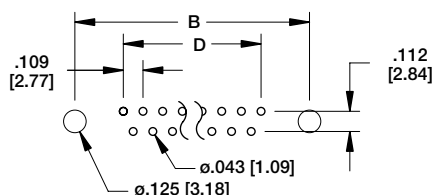
Option C: .120" Mounting Hole



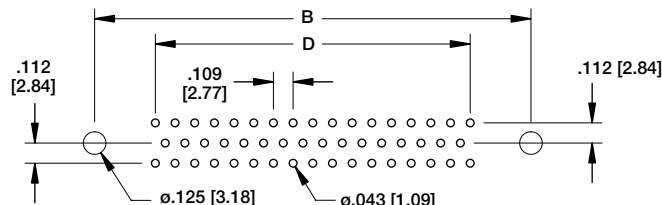
Option D: #4-40 Rear Clinch Nut



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



Recommended PCB Layout 9, 15, 25 & 37 Position



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]

### INTRODUCTION:

Adam Tech Flat Cable IDC D-Sub connectors are a popular interface for many I/O and cable assembly applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost industry standard connection that terminates .050" flat cable quickly, easily and compactly. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

### FEATURES:

- Quickly terminates to flat cable
- Industry standard compatibility
- Durable metal shell design
- Integral strain relief available
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

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

### SPECIFICATIONS:

#### Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0  
Insulator Colors: Black (Blue optional)  
Contacts: Phosphor Bronze  
Shell: Steel, Tin or Zinc plated  
Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### 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  
Recommended cable size: 28 to 30 Awg.

#### Temperature Rating:

Operating temperature: -55°C to +105°C

#### PACKAGING:

Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



### ORDERING INFORMATION

**DB25**

**SF**

**M**

**2**

#### SHELL SIZE/ POSITIONS

**DE09** = 9 Position  
**DA15** = 15 Position  
**DB25** = 25 Position  
**DC37** = 37 Position  
**DD50** = 50 Position

#### CONTACT TYPE

**PF** = Plug, IDC  
**SF** = Socket, IDC

#### STRAIN RELIEF

#### PART NO.:

**DSR-09** = 9 Position  
**DSR-15** = 15 Position  
**DSR-25** = 25 Position  
**DSR-37** = 37 Position  
**DSR-50** = 50 Position

#### MOUNTING OPTIONS

**1** = .130" mounting holes  
**2** = #4-40 threaded  
flush inserts  
(Metal Shell only)

#### BODY

#### CONSTRUCTION

**M** = Metal shell  
**P** = All plastic body

#### OPTIONS:

Add designator(s) to end of part number

**15** = 15 μin. gold in contact area  
**30** = 30 μin. gold in contact area  
**BU** = Blue color insulator