

### 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

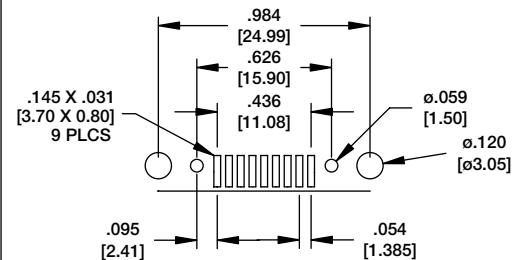
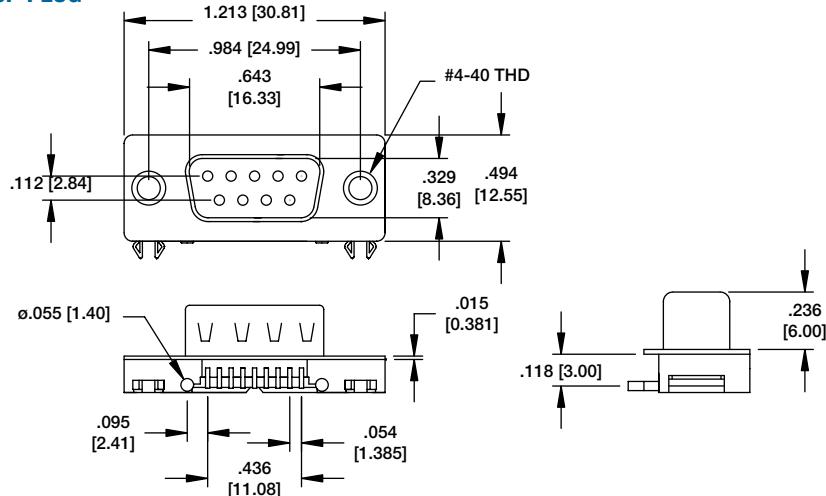
30 = 30 µin gold plating in contact area

R = Round jackscrews



HI-TEMP  
INSULATOR

#### 9P PLUG



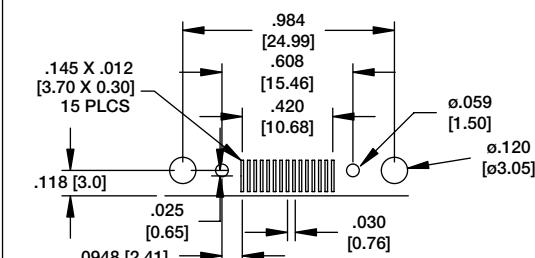
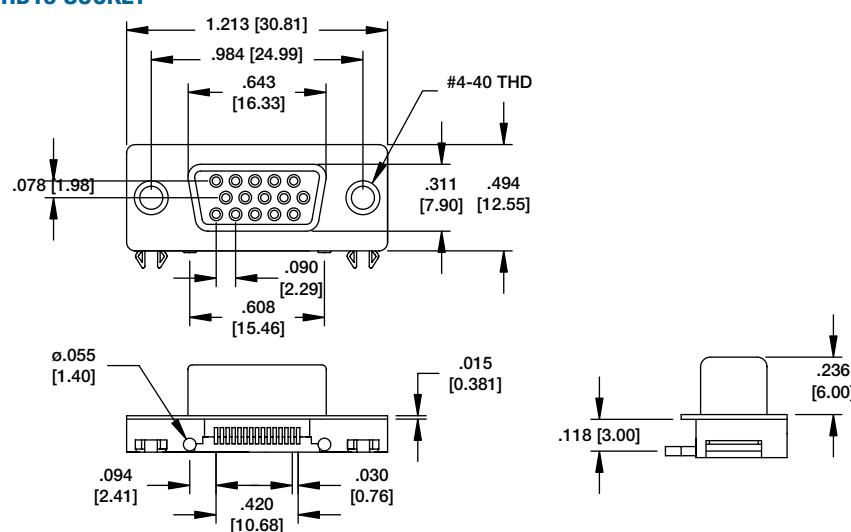
Recommended PCB Layout



DE09-SS-24

DE09-PS-25

#### HD15 SOCKET

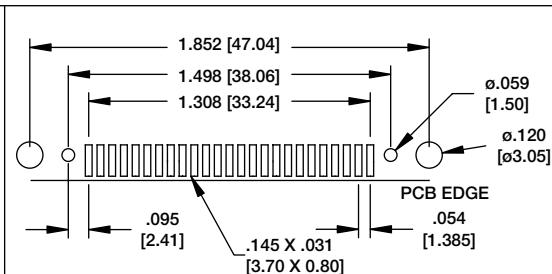
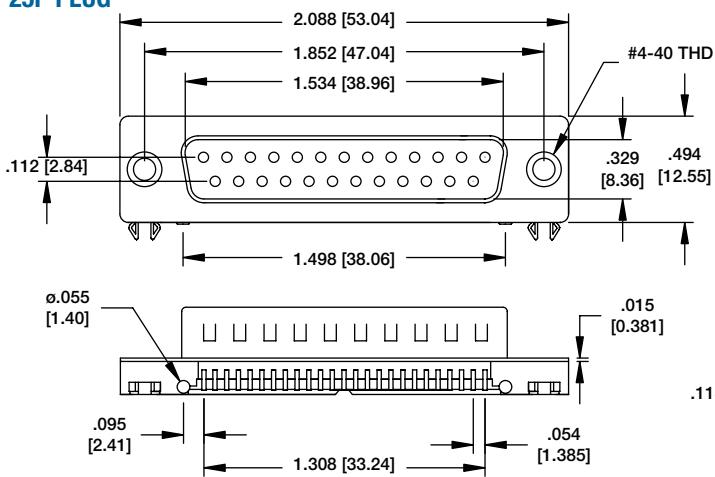


Recommended PCB Layout



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



#### ORDERING INFORMATION

DB25      SH      C      1      C

##### SHELL SIZE/ POSITIONS

DE09 = 9 Positions

DA15 = 15 Positions

DB25 = 25 Positions

DC37 = 37 Positions

DD50 = 50 Positions

##### CONTACT TYPE

PH = Plug, Right Angle Machined Contact

SH = Socket, Right Angle Machined Contact

##### FOOTPRINT DIMENSION

C = .283" Footprint

G = .370" Footprint

F = .545" Footprint

##### PCB MOUNTING OPTION

1 = Without Bracket

2 = Bracket with forked boardlock

3 = Bracket with .120" PCB mounting hole

##### 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

##### MATING FACE MOUNTING OPTIONS

WITH BRACKET  
MOUNTING

**A** = Full plastic bracket with #4-40 Threaded Inserts

**B** = Full plastic bracket with #4-40 Threaded Inserts with removable Jackscrews

**AM** = Metal brackets with #4-40 Threaded Inserts

**BM** = Metal brackets with #4-40 Threaded Inserts with removable Jackscrews

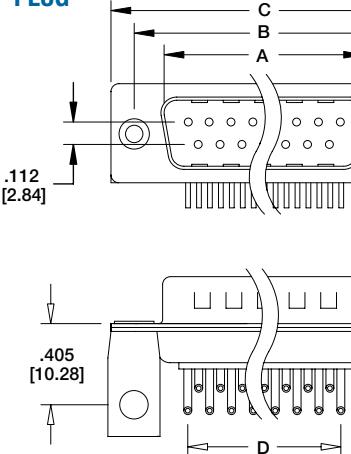
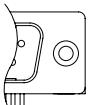
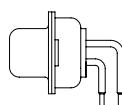
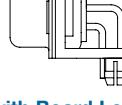
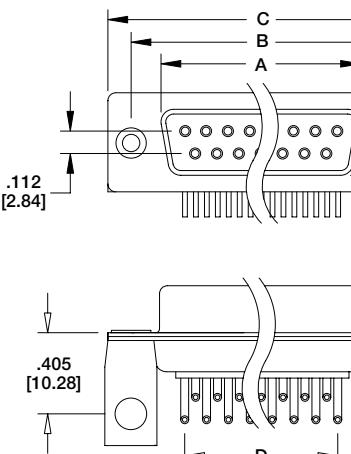
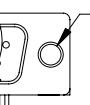
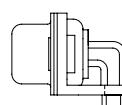
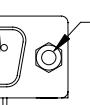
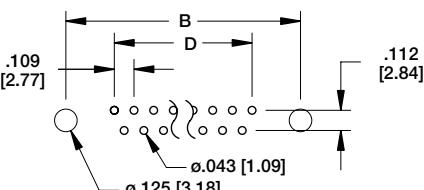
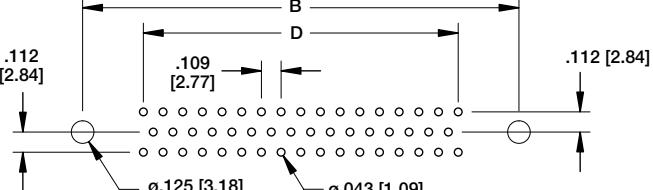
##### WITHOUT BRACKET MOUNTING

**C** = .120"

Non-Threaded holes

**D** = #4-40 Rear Clinch Nut

**E** = #4-40 Clinch Nut with removable Jackscrews

<b>PLUG</b>  <p><b>PCB MOUNTING OPTIONS</b></p>	 <b>Option 1: Without Bracket</b>  <b>Option 2: Bracket with Board Lock</b>  <b>Option 3: Bracket with .120" Mounting Hole</b>				
<b>SOCKET</b>  <p><b>MATING FACE MOUNTING OPTIONS</b></p>	 <b>Option C: .120" Mounting Hole</b>  <b>Option D: #4-40 Rear Clinch Nut</b>  <b>Option E: #4-40 Threaded Insert with removable Jack Screws</b>				
 <b>Recommended PCB Layout 9, 15, 25 &amp; 37 Position</b>	 <b>Recommended PCB Layout 50 Position</b>				
Unit: Inch / mm					
<b>Positions</b>	<b>PLUG</b>	<b>SOCKET</b>	<b>DIMENSIONS</b>		
	<b>A</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
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



## D-SUBMINIATURE

### IDC FLAT CABLE TERMINATION

DPF & DSF SERIES



### ORDERING INFORMATION

DB25

**SHELL SIZE/  
POSITIONS**

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

SF

**MOUNTING OPTIONS**

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

M

**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

2

**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