

INTRODUCTION:

Adam Tech Right Angle .590" footprint PCB D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are an excellent choice for a low cost industry standard connection. They are available with full or half mounting flanges. 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:

- Half or Full flange options
- 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:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator Color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc 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

DB25

SQ

SA 4

SHELL SIZE/ POSITIONS

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

CONTACT TYPE

PQ = Plug,
.590" Footprint
SQ = Socket,
.590" Footprint

MATING FACE MOUNTING OPTIONS

3 = #4-40 fixed jack screws
4 = #4-40 flush threaded
inserts
5 = #4-40 flush threaded
inserts with removable
jack screws installed
6 = .120" non-threaded
mounting holes

* See Mounting Option
diagrams page 77

PCB MOUNTING OPTIONS

SA = Wrap around
ground straps
with thru holes
on half flange

SB = Wrap around
ground straps
with thru holes
on full flange

SC = Top side only
ground straps
with thru holes
on half flange

SD = Top side only
ground straps
with thru holes
on full flange

F = Forked boardlocks
on half flange

R = Forked boardlocks
on full flange

* See Mounting Option
diagrams page 77

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

EMI = Ferrite filtered version
for EMI/RFI suppression

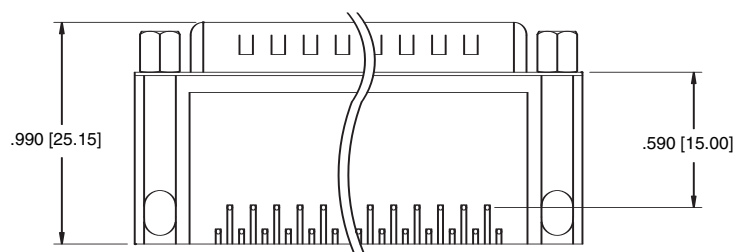
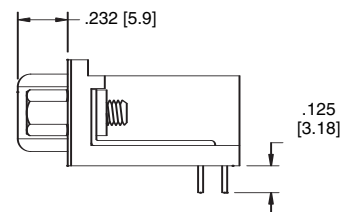
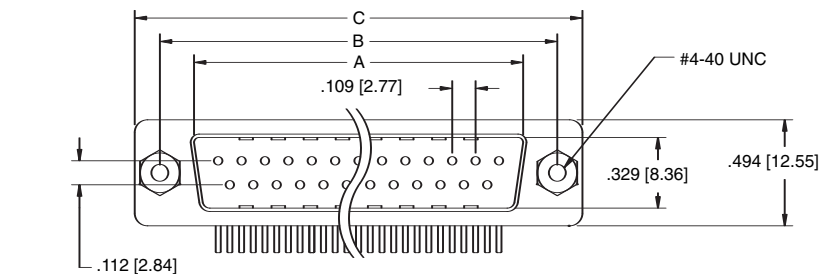
LPJ = Loose packed jackscrews

F = Superior retention 4 prong
boardlocks

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

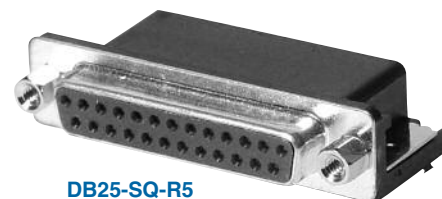
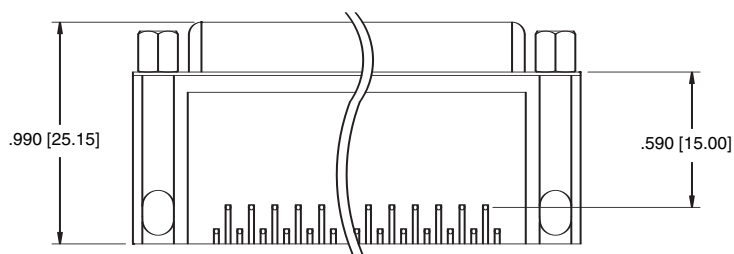
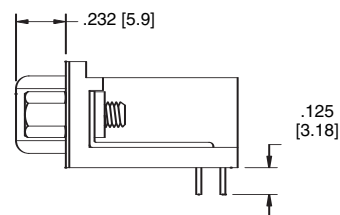
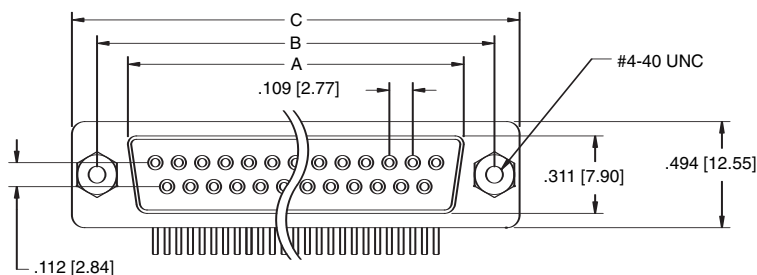
R = Round jackscrews

PLUG



DB25-PQ-SB4

SOCKET

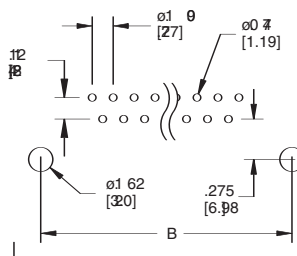


DB25-SQ-R5

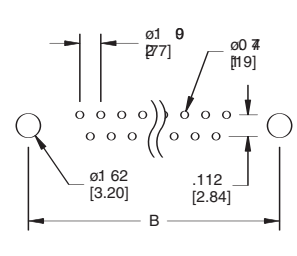
Unit: Inch [mm]

Pos.	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]

Half Flange PCB Layout for PCB mounting options (SA, SC, F)

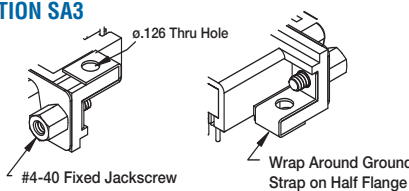
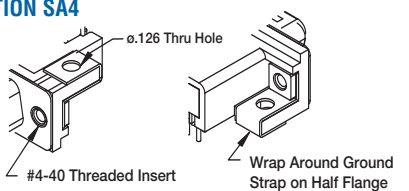
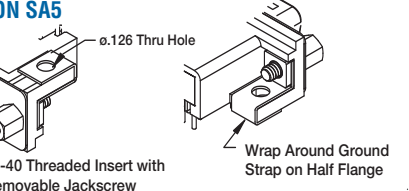
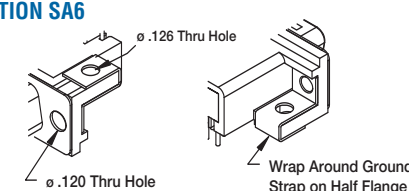
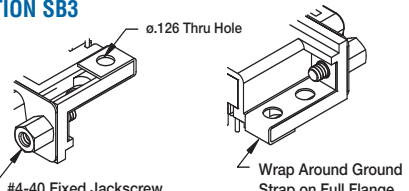
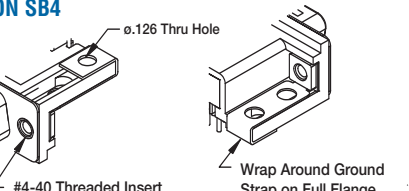
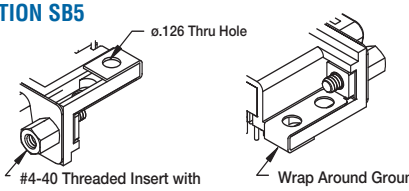
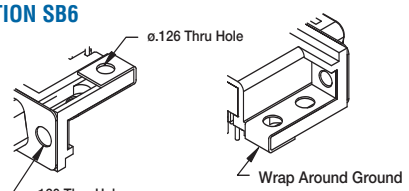
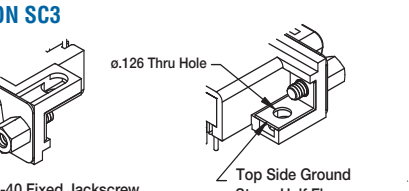
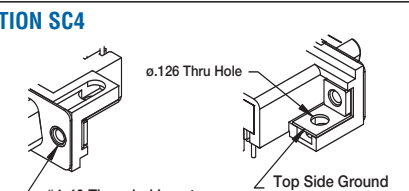
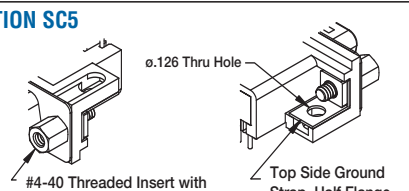
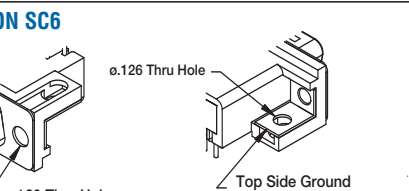
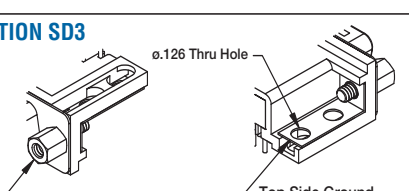
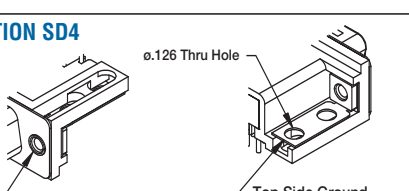
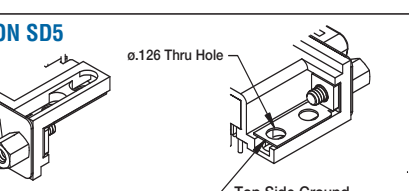
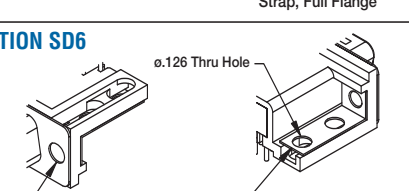
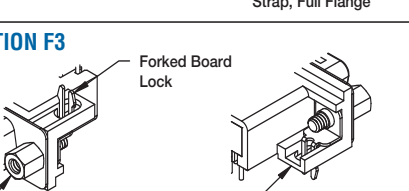
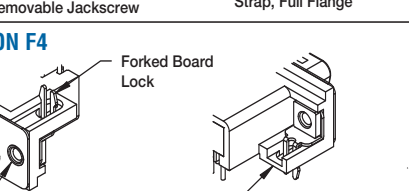
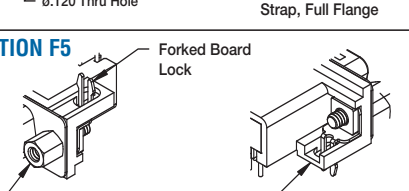
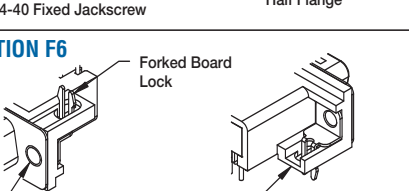
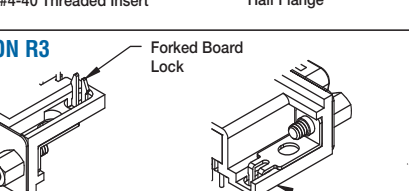
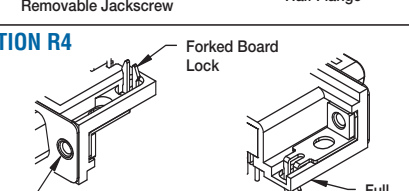
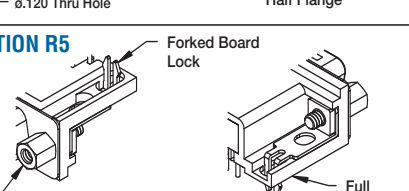
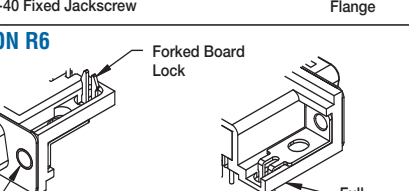


Full Flange PCB Layout for PCB mounting options (SB, SD, R)



PCB Edge

MATING FACE & PCB MOUNTING OPTIONS

OPTION SA3  ø.126 Thru Hole #4-40 Fixed Jackscrew Wrap Around Ground Strap on Half Flange	OPTION SA4  ø.126 Thru Hole #4-40 Threaded Insert Wrap Around Ground Strap on Half Flange	OPTION SA5  ø.126 Thru Hole #4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap on Half Flange
OPTION SA6  ø.126 Thru Hole ø.120 Thru Hole Wrap Around Ground Strap on Half Flange	OPTION SB3  ø.126 Thru Hole #4-40 Fixed Jackscrew Wrap Around Ground Strap on Full Flange	OPTION SB4  ø.126 Thru Hole #4-40 Threaded Insert Wrap Around Ground Strap on Full Flange
OPTION SB5  ø.126 Thru Hole #4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap on Full Flange	OPTION SB6  ø.126 Thru Hole ø.120 Thru Hole Wrap Around Ground Strap on Full Flange	OPTION SC3  ø.126 Thru Hole #4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange
OPTION SC4  ø.126 Thru Hole #4-40 Threaded Insert Top Side Ground Strap, Half Flange	OPTION SC5  ø.126 Thru Hole #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange	OPTION SC6  ø.126 Thru Hole ø.120 Thru Hole Top Side Ground Strap, Half Flange
OPTION SD3  ø.126 Thru Hole #4-40 Fixed Jackscrew Top Side Ground Strap, Full Flange	OPTION SD4  ø.126 Thru Hole #4-40 Threaded Insert Top Side Ground Strap, Full Flange	OPTION SD5  ø.126 Thru Hole #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Full Flange
OPTION SD6  ø.126 Thru Hole ø.120 Thru Hole Top Side Ground Strap, Full Flange	OPTION F3  Forked Board Lock #4-40 Fixed Jackscrew Half Flange	OPTION F4  Forked Board Lock #4-40 Threaded Insert Half Flange
OPTION F5  Forked Board Lock #4-40 Threaded Insert with Removable Jackscrew Half Flange	OPTION F6  Forked Board Lock ø.120 Thru Hole Half Flange	OPTION R3  Forked Board Lock #4-40 Fixed Jackscrew Full Flange
OPTION R4  Forked Board Lock #4-40 Threaded Insert Full Flange	OPTION R5  Forked Board Lock #4-40 Threaded Insert with Removable Jackscrew Full Flange	OPTION R6  Forked Board Lock ø.120 Thru Hole Full Flange