

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



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

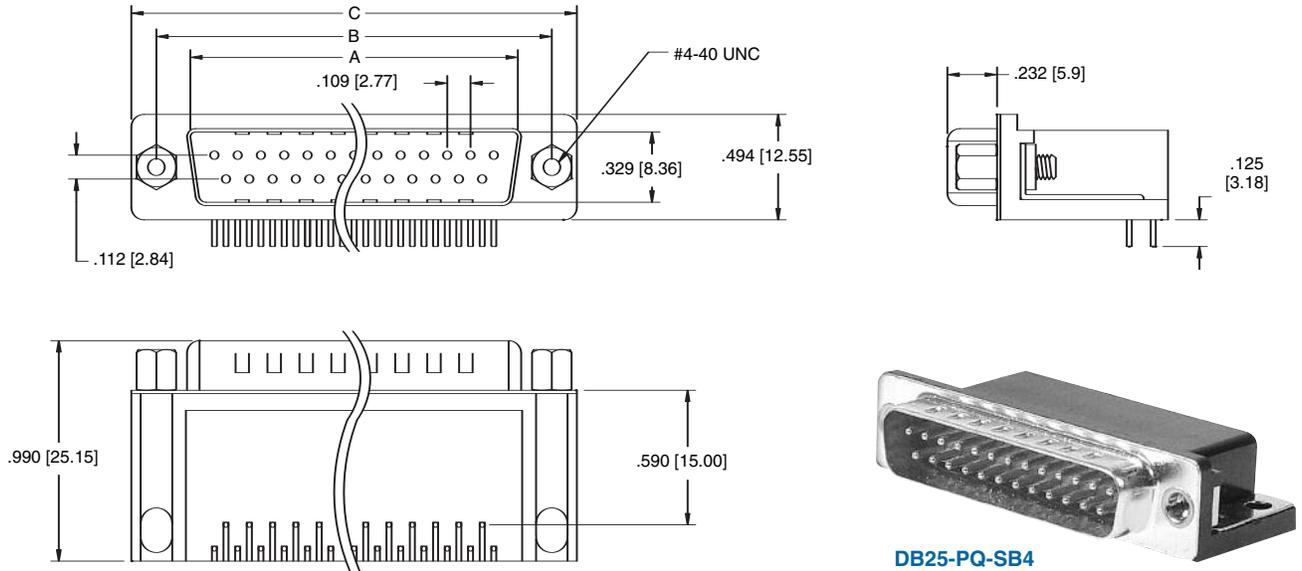
LPJ = Loose packed jackscrews

F = Superior retention 4 prong boardlocks

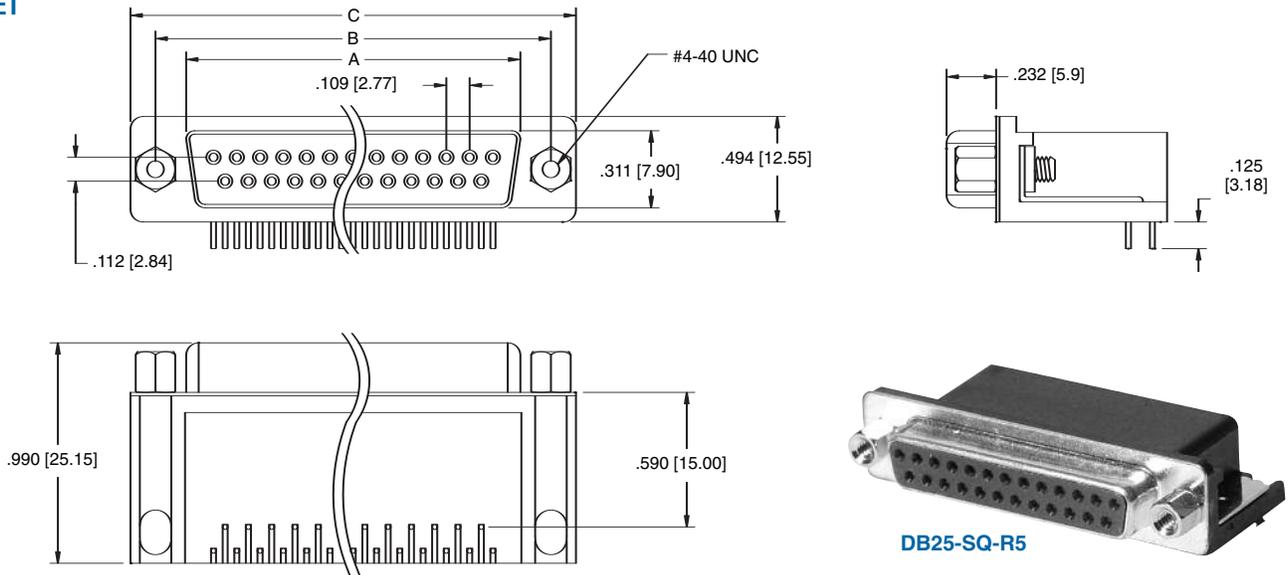
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

R = Round jackscrews

PLUG



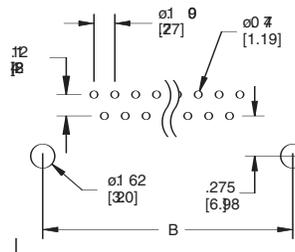
SOCKET



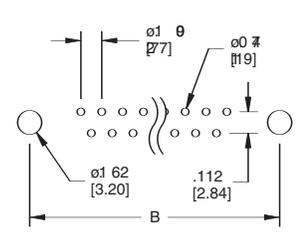
Unit: Inch [mm]

| 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

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