

INTRODUCTION:

Adam Tech Right Angle PCB mount .318" footprint 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 low cost industry standard connection. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- 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 μ in optional) over Nickel underplate on mating area. Tin over copper underplate on PCB tails.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

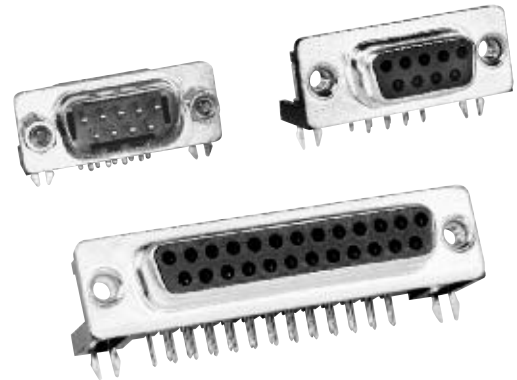
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

DB25

SL

2

4

SHELL SIZE/ POSITIONS

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

CONTACT TYPE

PL = Plug, .318" Footprint
SL = Socket, .318" Footprint

MATING FACE MOUNTING OPTIONS

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

* See Mounting Option diagrams pg. 77

PCB MOUNTING OPTIONS

1 = Wrap around ground straps with thru holes
2 = Forked board locks
3 = Top side only ground straps with thru holes
4 = Top side only ground straps with #4-40 threaded screw holes

* See Mounting Option diagrams pg. 77

OPTIONS:

Add designator(s) to end of part number

15 = 15 μ in gold plating in contact area

30 = 30 μ in gold plating in contact area

EMI = Ferrite filtered version for EMI/RFI suppression

LPJ = Loose packed jackscrews

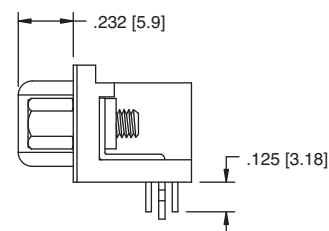
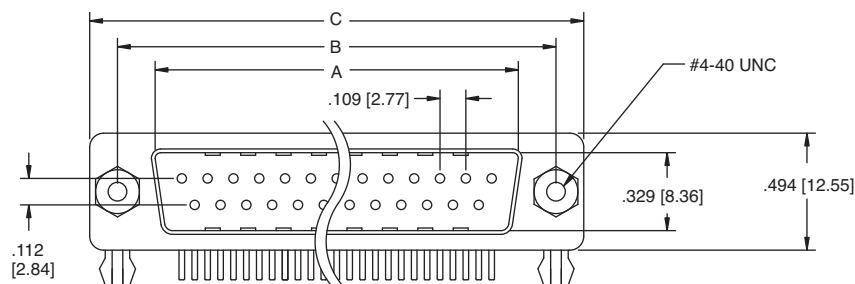
F = Superior retention 4 prong boardlocks

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

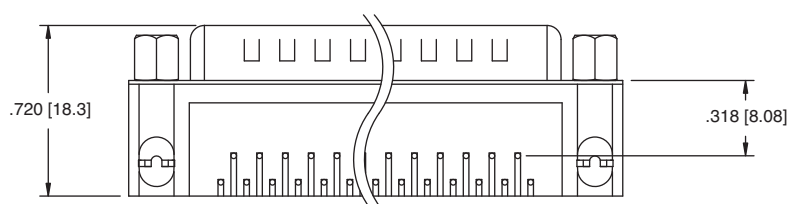
R = Round jackscrews

PF = Press fit pins

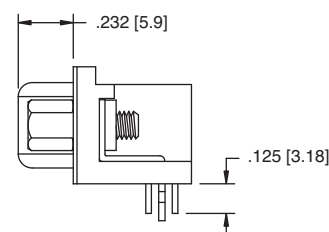
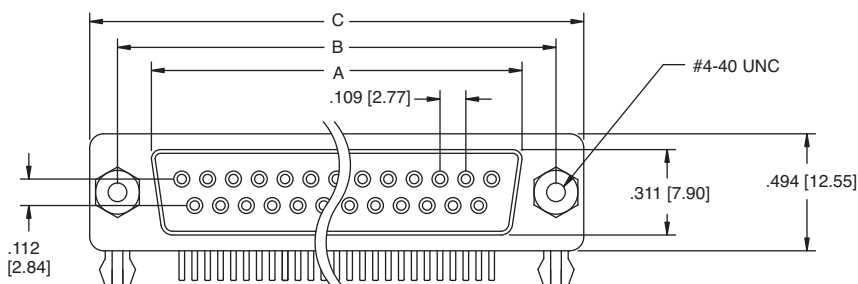
PLUG



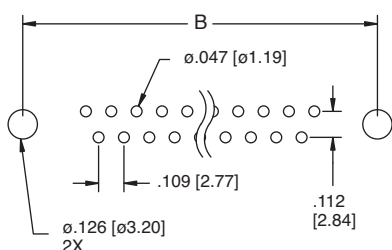
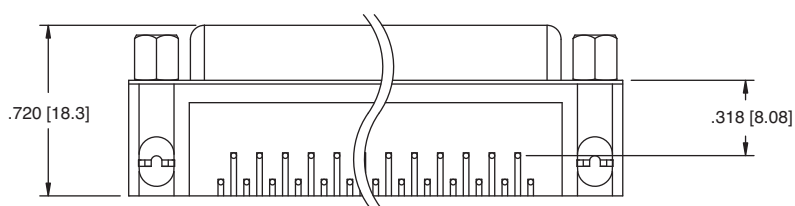
DB25-PL-25



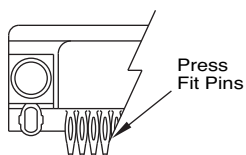
SOCKET



DB25-SL-24



Recommended PCB Layout



Press Fit Option

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]

MATING FACE & PCB MOUNTING OPTIONS

OPTION 13	OPTION 14	OPTION 15
OPTION 16	OPTION 23 <i>* Standard Stocked Item</i>	OPTION 23-R OPTION 27
OPTION 24 <i>* Standard Stocked Item</i>	OPTION 24-F	OPTION 25 <i>* Standard Stocked Item</i>
OPTION 26	OPTION 33	OPTION 34
OPTION 35	OPTION 36	OPTION 43
OPTION 44	OPTION 45	OPTION 46

INTRODUCTION:

Adam Tech Right Angle PCB mount .590" footprint 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 size PCB side 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 μ in optional) over Nickel underplate.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. Initial
Insulation resistance: 5000 M Ω 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

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 80

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 80

OPTIONS:

Add designator(s) to end of part number

15 = 15 μ in gold plating in contact area

30 = 30 μ in gold plating in contact area

EMI = Ferrite filtered version for EMI/RFI suppression

LPJ = Loose packed jackscrews

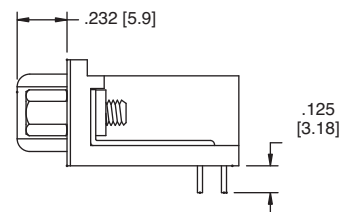
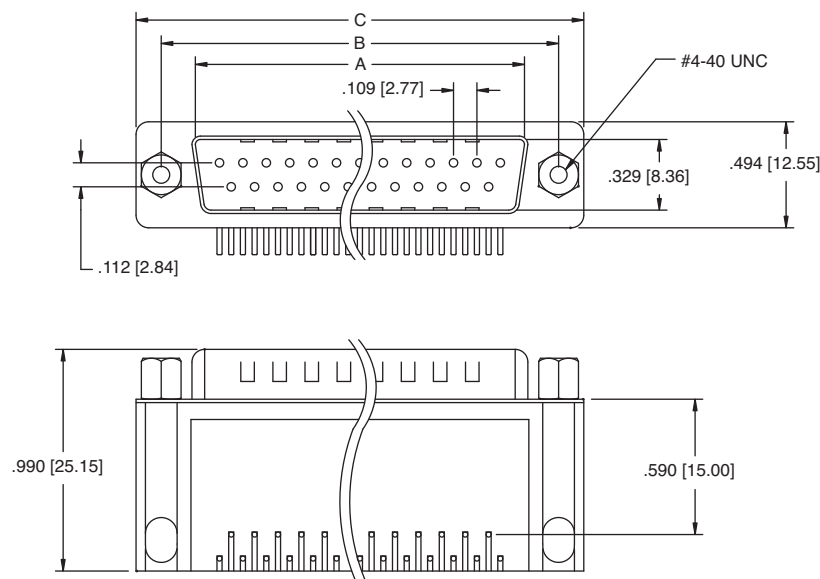
F = Superior retention 4 prong boardlocks

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

R = Round jackscrews

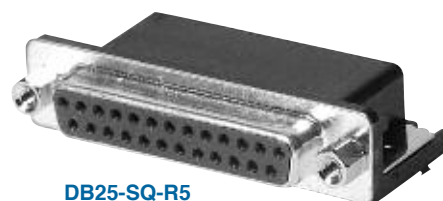
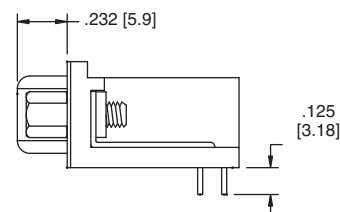
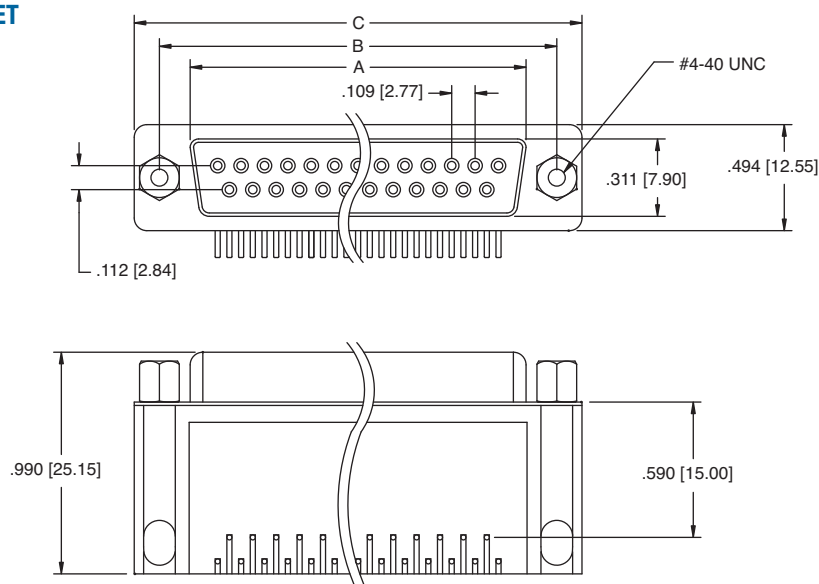
PLUG

See pg. 80 for Mounting Options



DB25-PQ-SB4

SOCKET

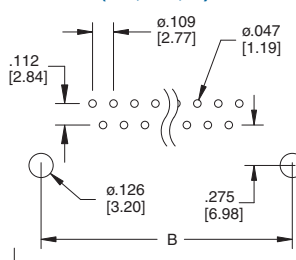


DB25-SQ-R5

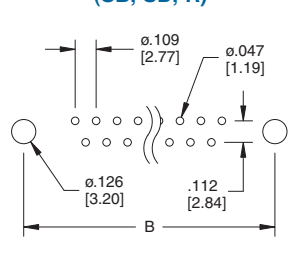
Unit: Inch [mm]

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)

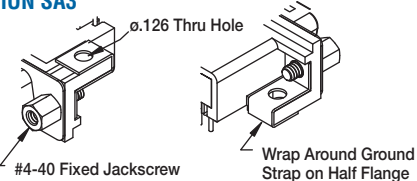
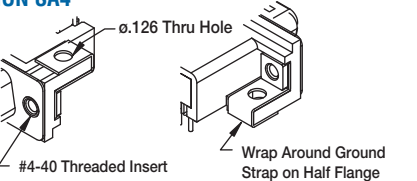
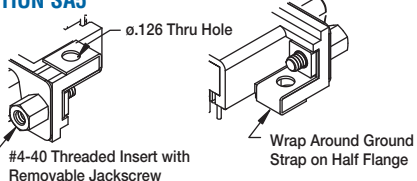
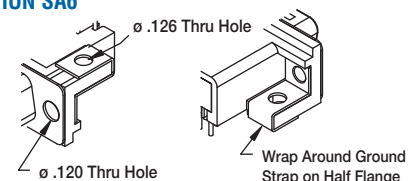
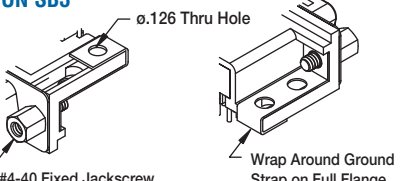
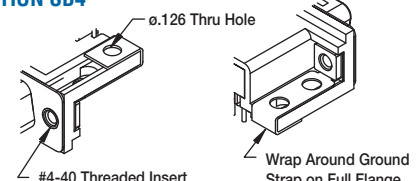
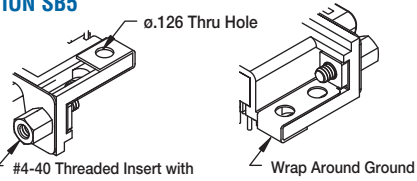
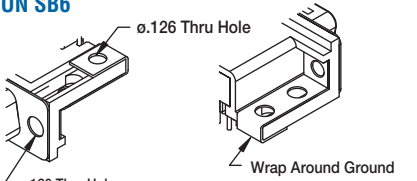
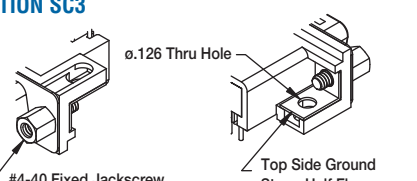
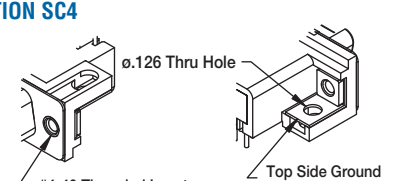
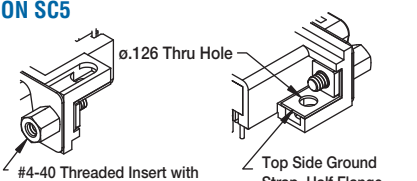
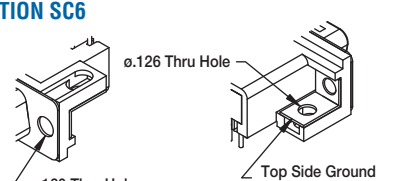
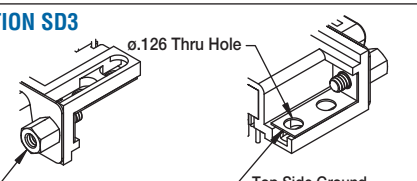
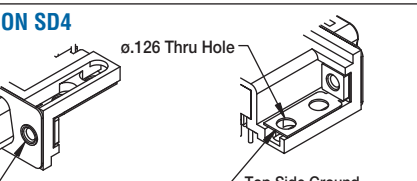
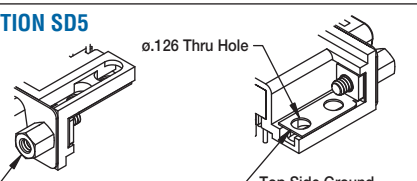
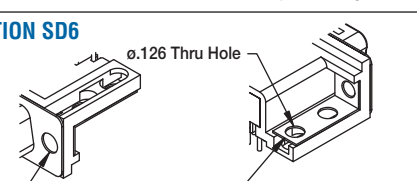
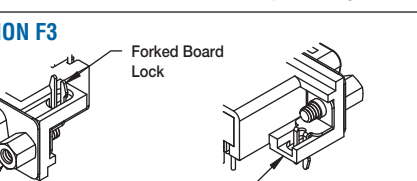
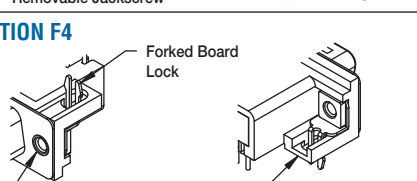
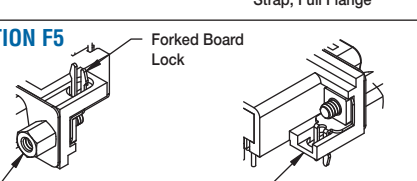
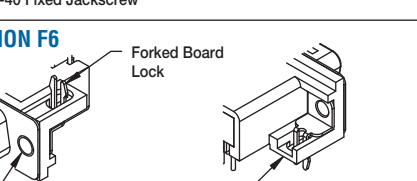
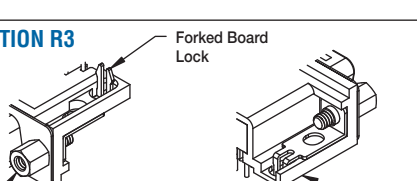
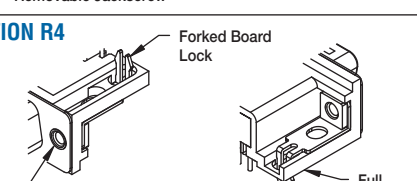
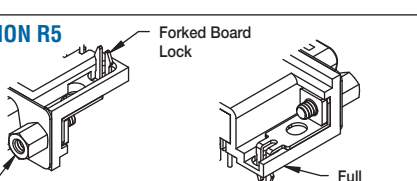
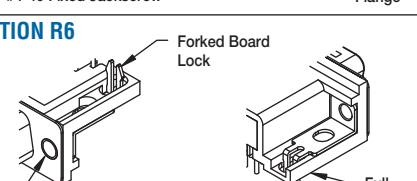


Full Flange PCB Layout for PCB mounting options (SB, SD, R)



PCB Edge

MATING FACE & PCB MOUNTING OPTIONS

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

INTRODUCTION:

Adam Tech Combination Signal/Coax D-Sub connectors are a popular interface for many mixed signal I/O applications. Offered in five shell sizes they are a good choice for a low cost industry standard connection that requires utilization of standard signal and high performance, low impedance signals either in signal-coax or signal - power choices. Adam Tech connectors are manufactured with precision stamped standard signal contacts and precision turned coax contacts. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

Electrical:

Operating voltage: 250V AC / DC max.
Signal Current rating: 5 Amps max.
High Power contact current rating: 20 or 40 Amps.
Coaxial Impedance: 50Ω (75Ω optional)
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

D13W3

SLP

1

2

SHELL CONFIGURATIONS

D1W1, D2W2, D3W3,
D5W1, D5W5, D7W2,
D8W8, D9W4N,
D11W1, D13W3,
D13W6, D17W2,
D17W5, D21W1,
D21W4, D24W7,
D25W3, D27W2,
D36W4, D43W2

CURRENT RATING

SIGNAL - COAX

1 = 50 Ohm

2 = 75 Ohm

SIGNAL - POWER

3 = 10 Amps

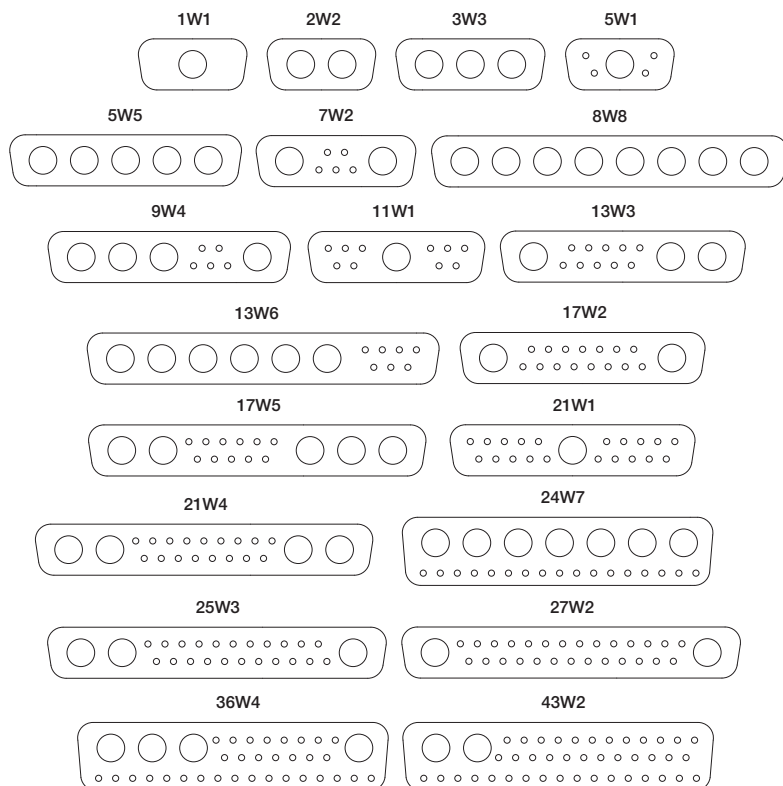
4 = 20 Amps

5 = 30 Amps

6 = 40 Amps

7 = 50 Amps

SHELL CONFIGURATIONS



TYPE

SIGNAL-COAX

PT= Plug, Straight PCB

ST= Socket, Straight PCB

PL= Plug, Right Angle PCB

SL= Socket, Right Angle PCB

PD= Plug, Solder Cup

SD= Socket, Solder Cup

SIGNAL-POWER

PTP= Plug, Straight PCB,
Power Contacts

STP= Socket, Straight PCB,
Power Contacts

PLP= Plug, Right Angle PCB,
Power Contacts

SLP= Socket, Right Angle
PCB, Power Contacts

PDP= Plug, Solder Cup
Power Contacts

SDP= Socket, Solder Cup
Power Contacts

MOUNTING RIGHT ANGLE

1 = 120" non-threaded
mounting holes,
no bracket

2 = Short Bracket with
#4-40 flush threaded
inserts in mounting
holes

2A = Short Bracket with
#4-40 flush threaded
inserts in mounting
holes Jack Screws
installed

3 = Long Bracket with
#4-40 flush threaded
inserts in mounting
holes

3A = Long Bracket with
#4-40 flush threaded
inserts in mounting
holes Jack Screws
installed

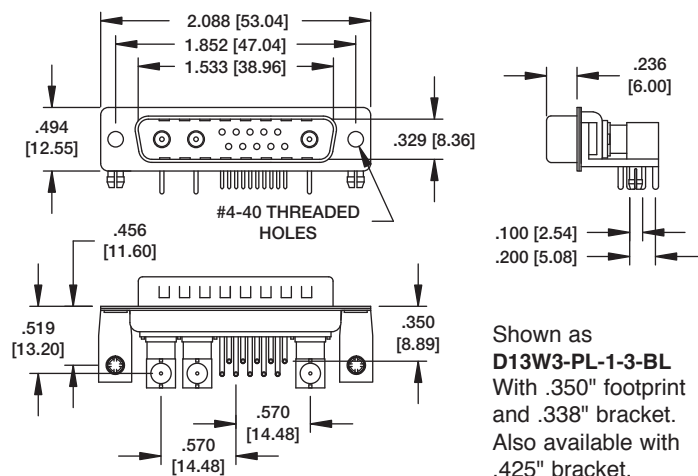
MOUNTING STRAIGHT

JS= Riveted #4-40 Jack
Screws on top of flange

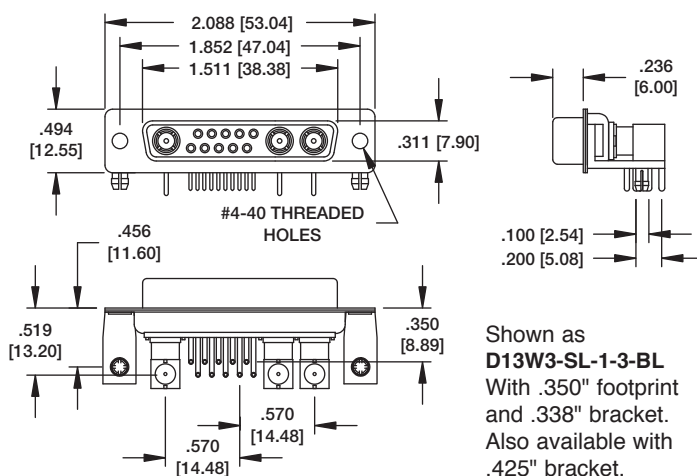
SL= Riveted #4-40 clinch
nuts on bottom of flange

BL = Riveted Board Locks

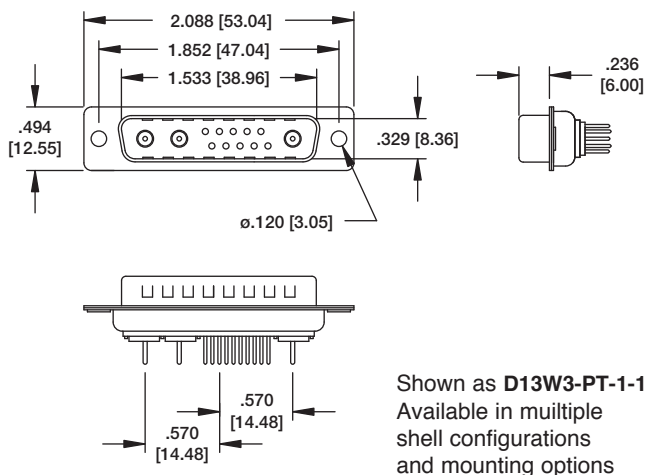
PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-COAX



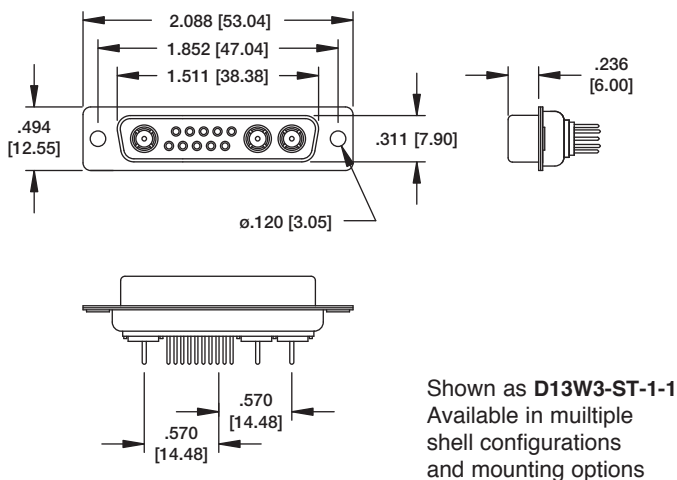
SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-COAX



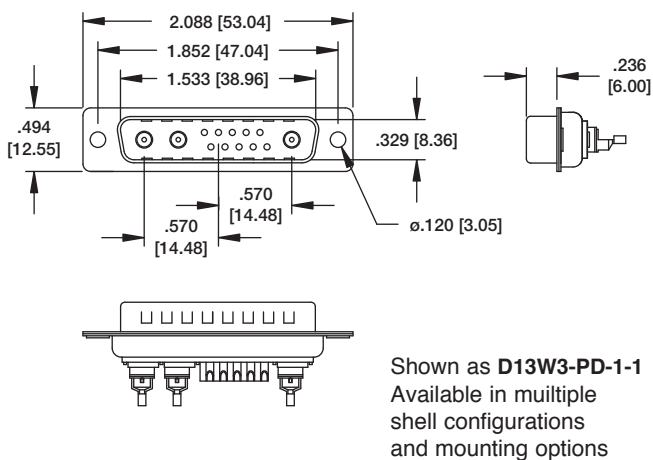
PLUG - STRAIGHT PCB MOUNT SIGNAL-COAX



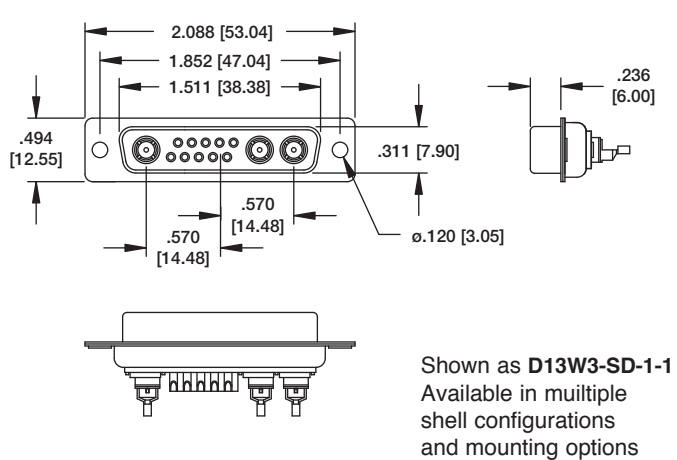
SOCKET - STRAIGHT PCB MOUNT SIGNAL-COAX



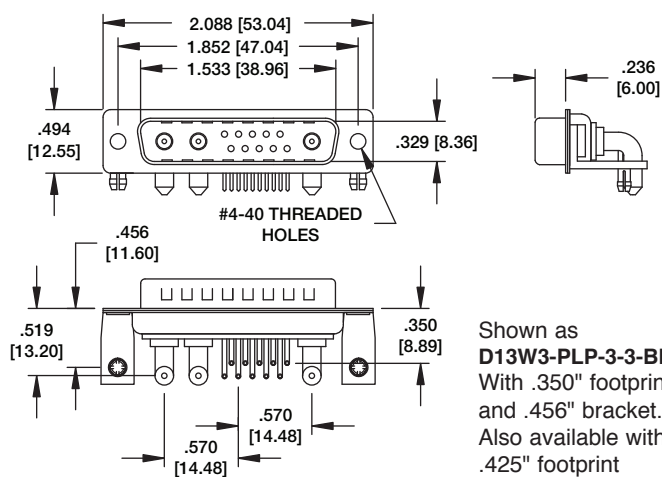
PLUG - STRAIGHT SOLDER CUP SIGNAL-COAX



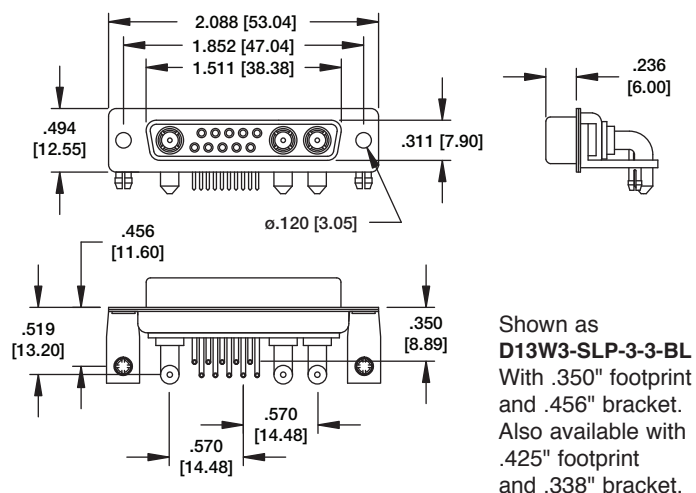
SOCKET - STRAIGHT SOLDER CUP SIGNAL-COAX



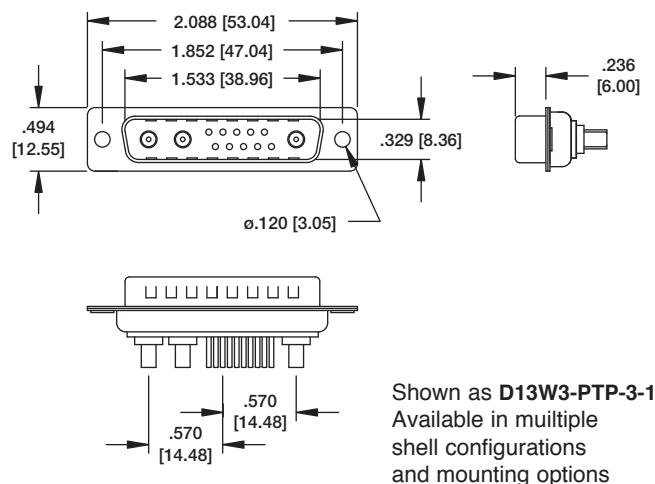
PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



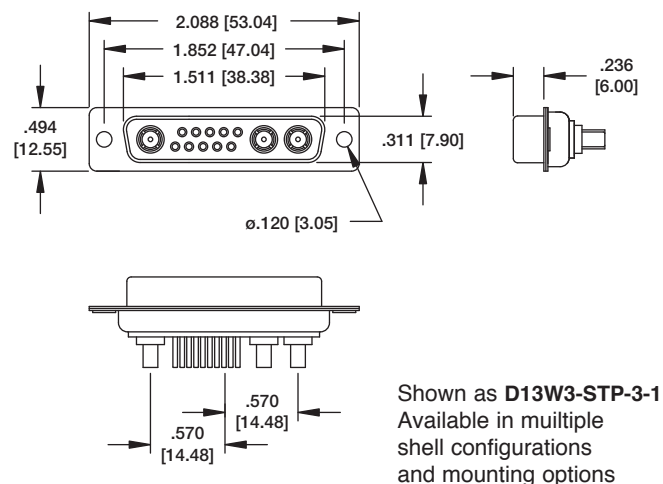
SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



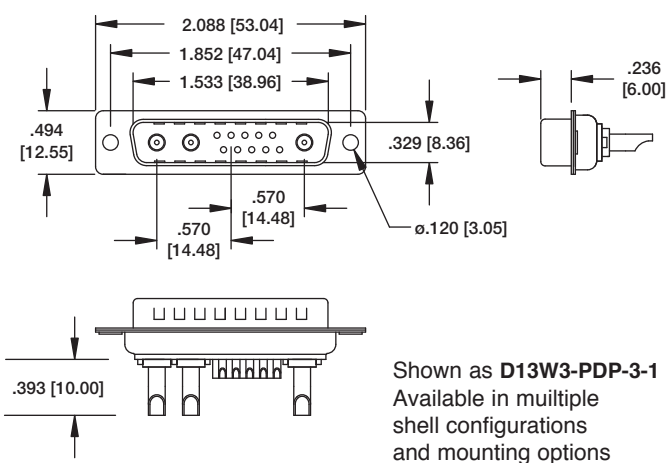
PLUG - STRAIGHT PCB MOUNT SIGNAL-POWER



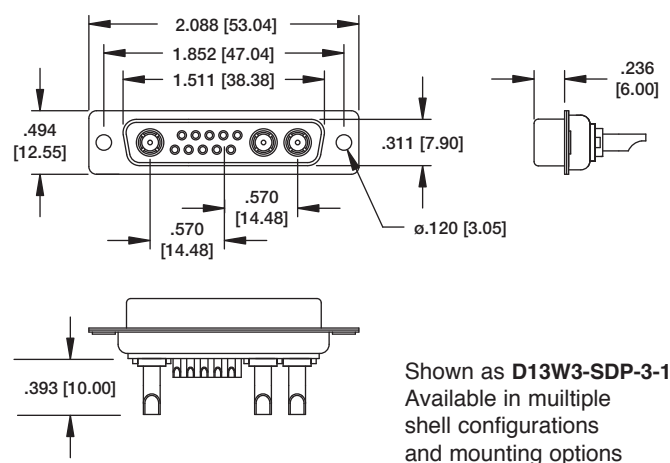
SOCKET - STRAIGHT PCB MOUNT SIGNAL-POWER



PLUG - STRAIGHT SOLDER CUP SIGNAL-POWER



SOCKET - STRAIGHT SOLDER CUP SIGNAL-POWER



INTRODUCTION:

Adam Tech Right Angle Slimline PCB tail 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:

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 μ in optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

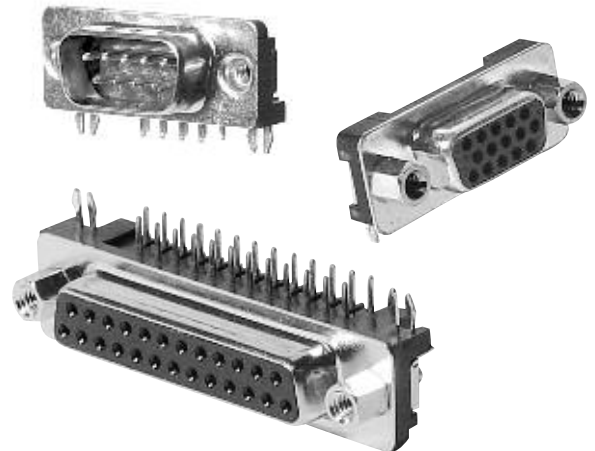
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

DB25

SN

24

SHELL SIZE/ POSITIONS

DE09 = 9 Positions
DB25 = 25 Positions
HD15 = High Density
15 Positions

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

PN = Plug, .197" Slimline
SN = Socket, .197" Slimline

OPTIONS:

Add designator(s) to end of part number

15 = 15 μ in gold plating in contact area

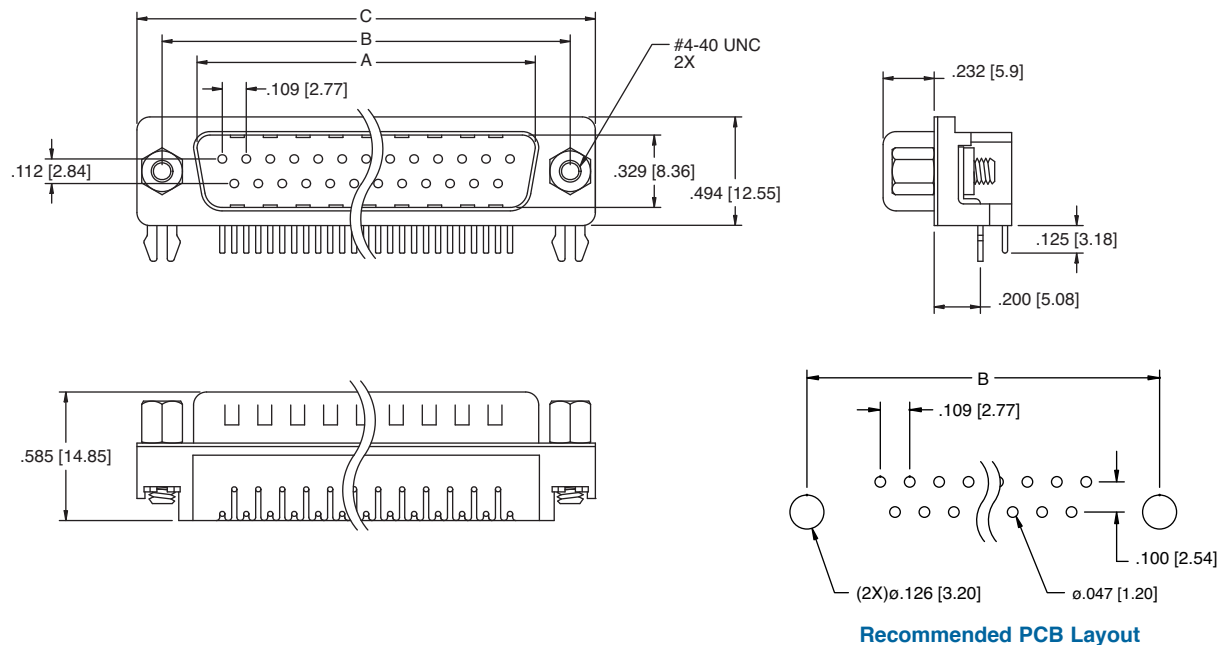
30 = 30 μ in gold plating in contact area

LPJ = Loose packed jackscrews

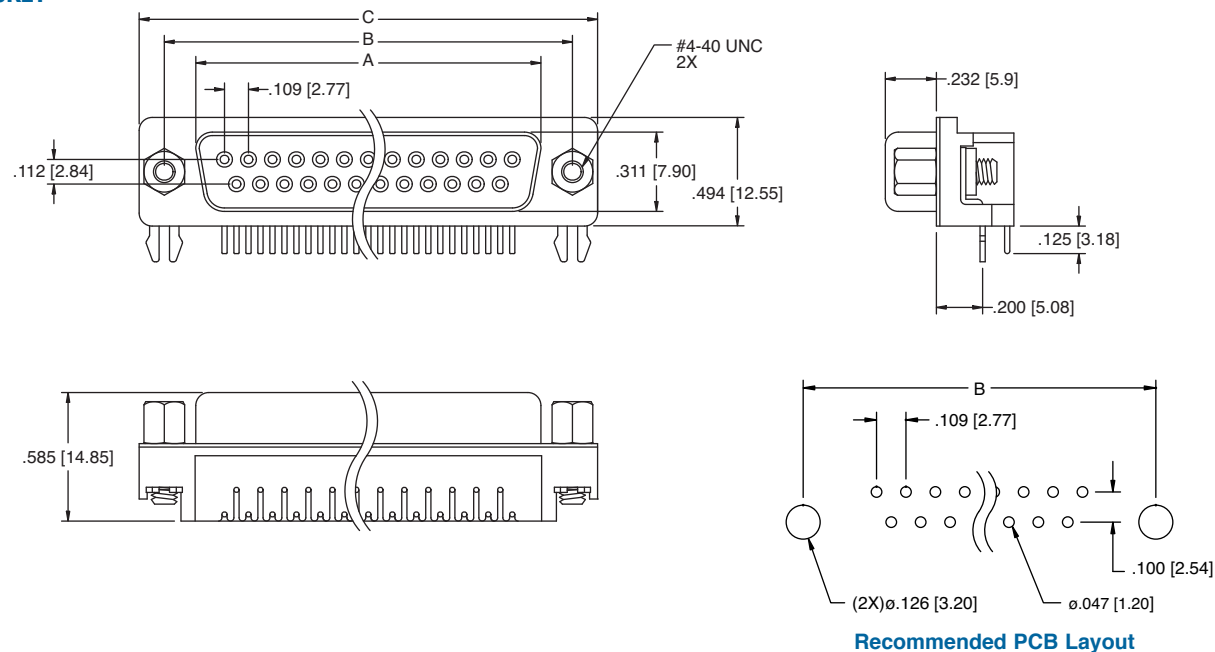
HT = Hi-Temp insulator for Hi-Temp soldering
processes up to 260°C

R = Round jackscrews installed

PLUG



SOCKET



Unit: Inch [mm]

Positions	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]

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 flash (15 and 30 μ in optional) over Nickel underplate on mating area, Tin over Copper underplate on SMT tails.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 1 Amp max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω 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

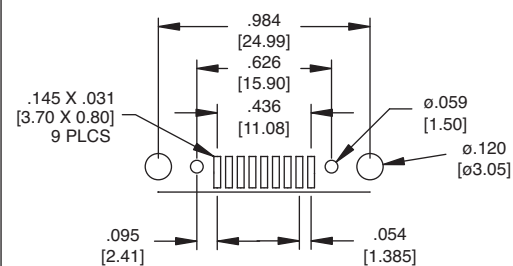
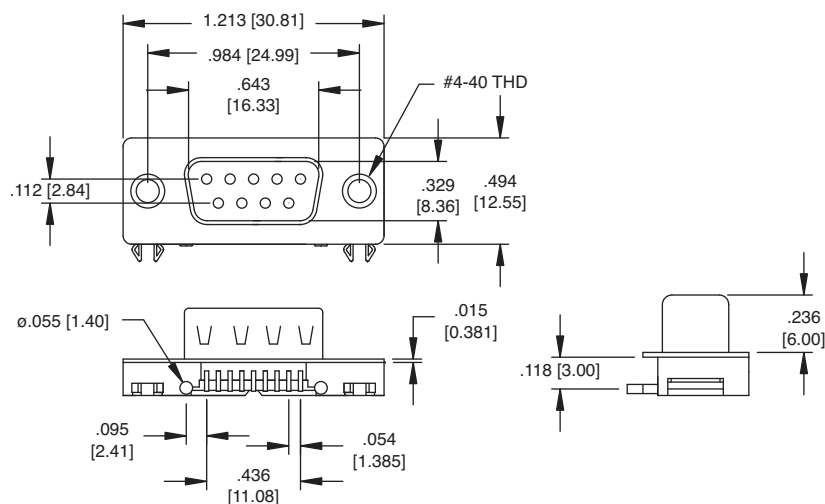
CONTACT / TYPE

PS = Plug Surface Mount
SS = Socket Surface Mount

OPTIONS:

Add designator(s) to end of part number
15 = 15 μ in gold plating in contact area
30 = 30 μ in gold plating in contact area
R = Round jackscrews

9P PLUG



Recommended PCB Layout

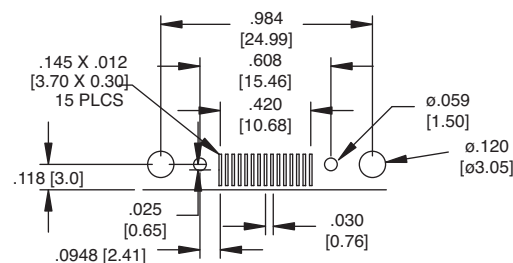
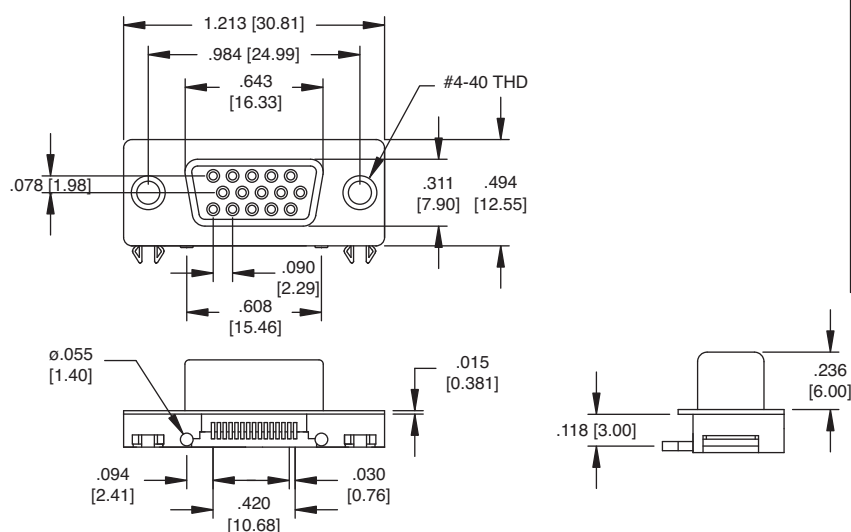


DE09-SS-24



DE09-PS-25

HD15 SOCKET

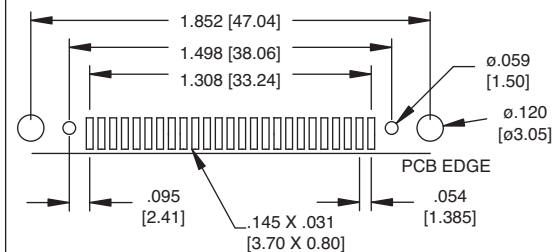
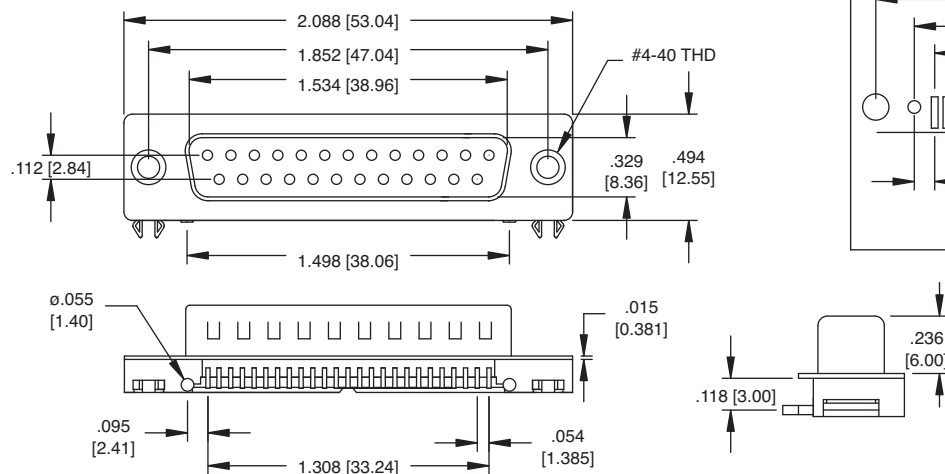


Recommended PCB Layout



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 flash (15 and 30 μ in optional) over Nickel underplate.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω 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:

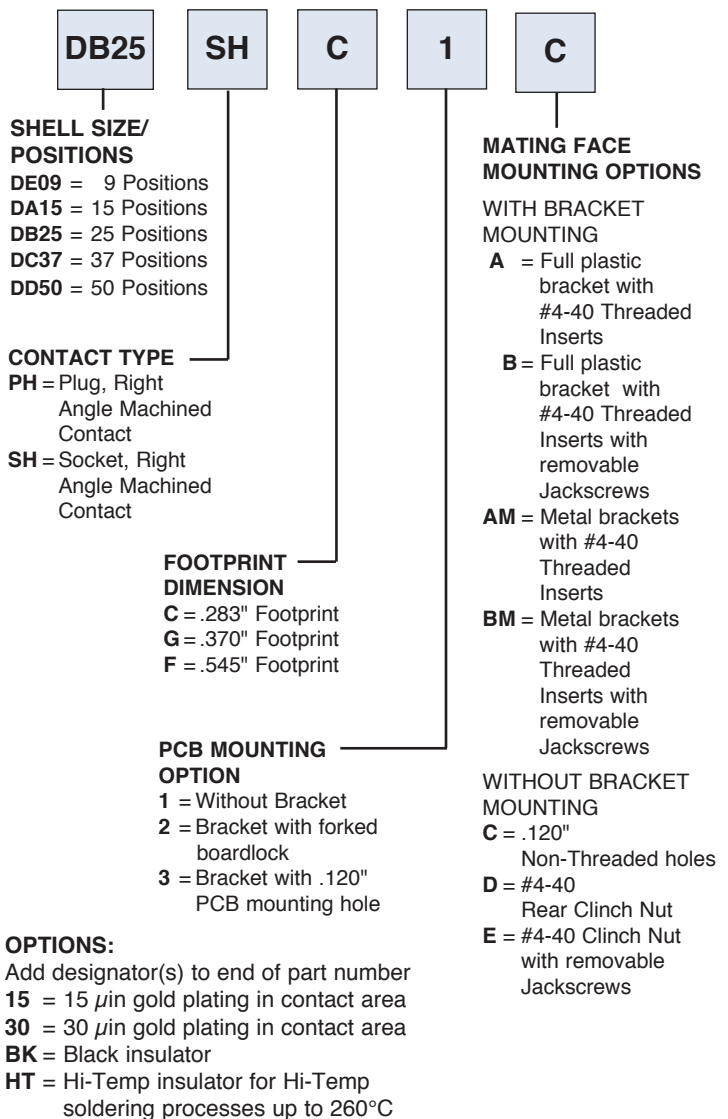
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



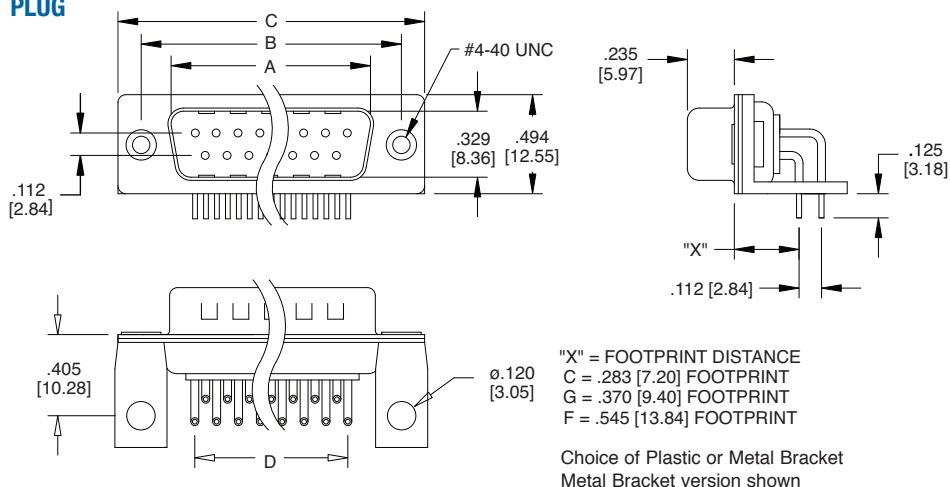
ORDERING INFORMATION



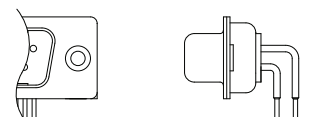
OPTIONS:

Add designator(s) to end of part number
 15 = 15 μ in gold plating in contact area
 30 = 30 μ in gold plating in contact area
 BK = Black insulator
 HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

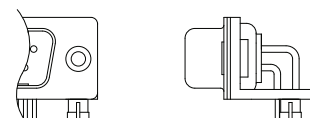
PLUG



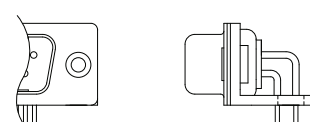
PCB MOUNTING OPTIONS



Option 1: Without Bracket

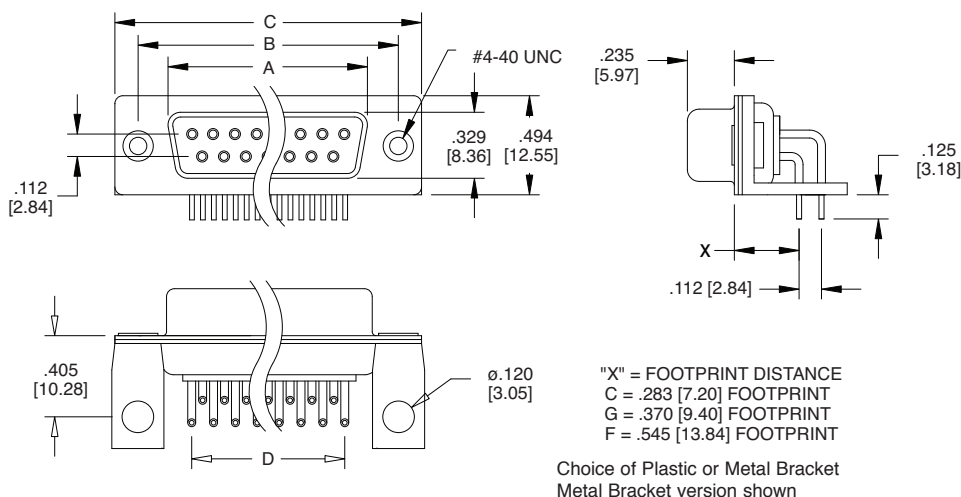


Option 2: Bracket with Board Lock

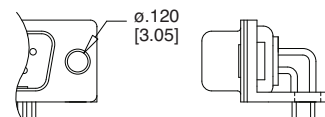


Option 3: Bracket with .120" Mounting Hole

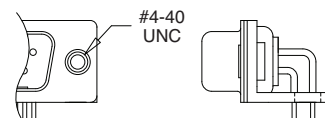
SOCKET



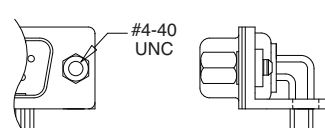
MATING FACE MOUNTING OPTIONS



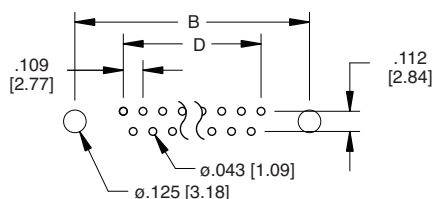
Option C: .120" Mounting Hole



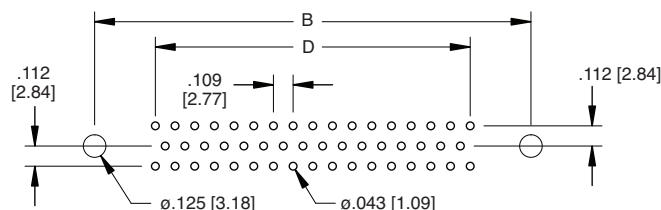
Option D: #4-40 Rear Clinch Nut



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 flash (15 and 30 μ in optional) over Nickel underplate, Nickel over copper underplate on IDC area

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω 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

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

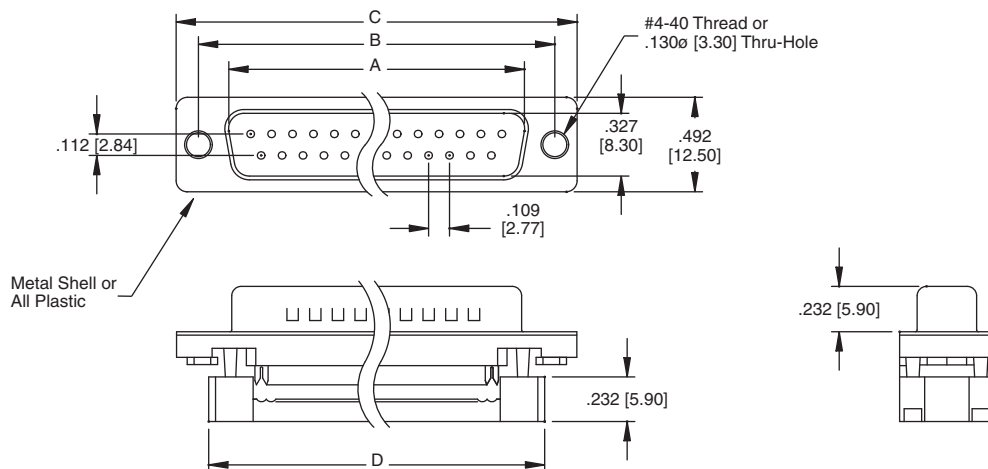
M = Metal shell
P = All plastic body

OPTIONS:

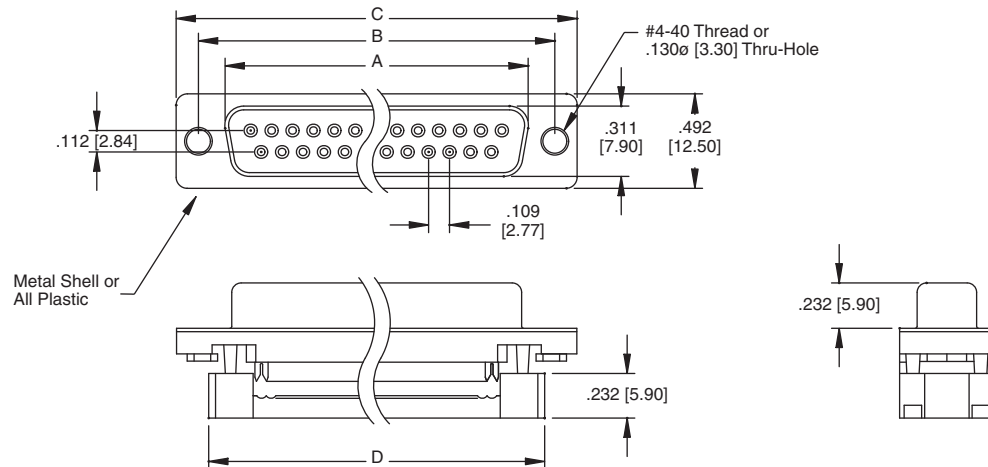
Add designator(s) to end of part number

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

PLUG



SOCKET



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]	.883 [22.44]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.213 [30.81]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.755 [44.57]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.414 [61.32]

INTRODUCTION:

Adam Tech Solder Cup D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions, they are an excellent choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts, and offer a wide selection of mating and mounting options. Adam Tech Solder Cup connectors can be soldered to cable ends or mounted directly to a PCB card edge.

FEATURES:

- Cable or edge card mounting
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- 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 (White optional)

Contacts: Phosphor Bronze

Shell: Steel, Tin or Zinc plated

Hardware: Brass, Nickel plated

Contact Plating:

Gold flash (15 and 30 μ in optional) over Nickel underplate underall.

Electrical:

Operating voltage: 250V AC / DC max.

Current rating: 5 Amps max.

Contact resistance: 20 m Ω max. initial

Insulation resistance: 5000 M Ω min.

Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max

Extraction force: 0.44 lbs min

Temperature Rating:

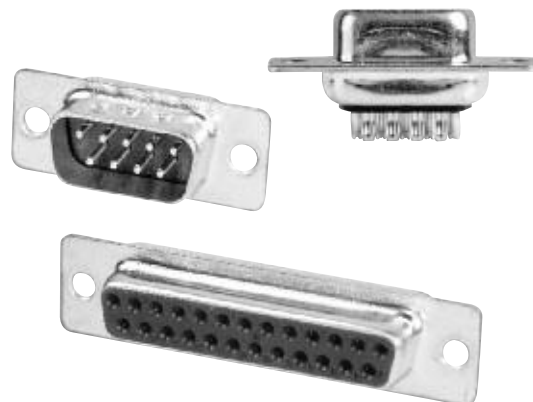
Operating temperature: -55°C to +105°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

DB25

PD

SL

SHELL SIZE/ POSITIONS

DE09 = 9 Position

DA15 = 15 Position

DB25 = 25 Position

DC37 = 37 Position

DD50 = 50 Position

MOUNTING OPTIONS

Blank = .120" Mounting Holes

SL = Bottom Side
Riveted, #4-40
clinch nuts

JS = Top Side
Riveted, #4-40
Jack Screws

CONTACT TYPE

PD = Solder Cup, Plug

SD = Solder Cup, Socket

OPTIONS:

Add designator(s) to end of part number

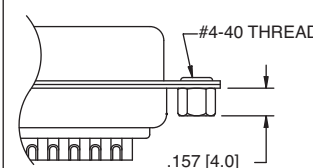
15 = 15 μ in gold plating in contact area

30 = 30 μ in gold plating in contact area

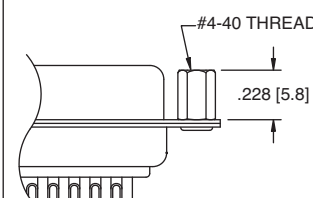
EMI = Ferrite filtered version for EMI / RFI
suppression (Page 114)

WT = White Color Insulator

MOUNTING OPTIONS

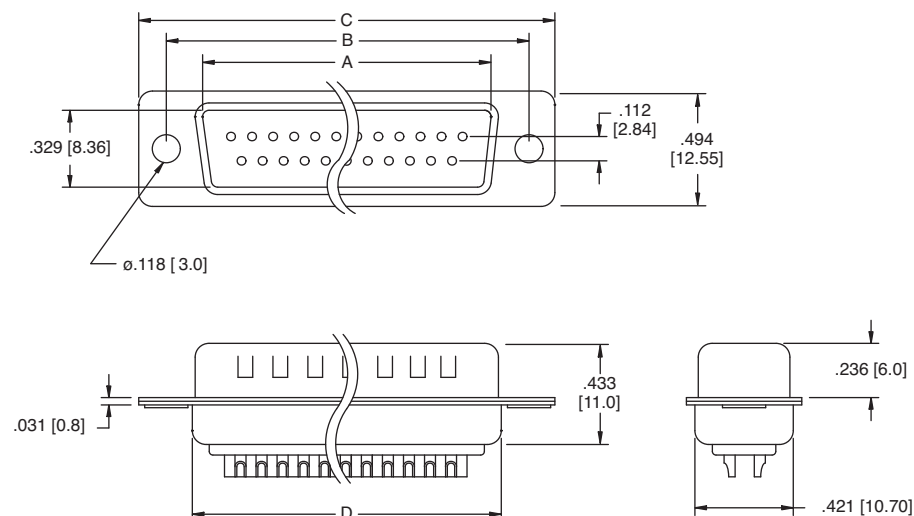


SL Option
Bottom side riveted #4-40
Clinch Nuts

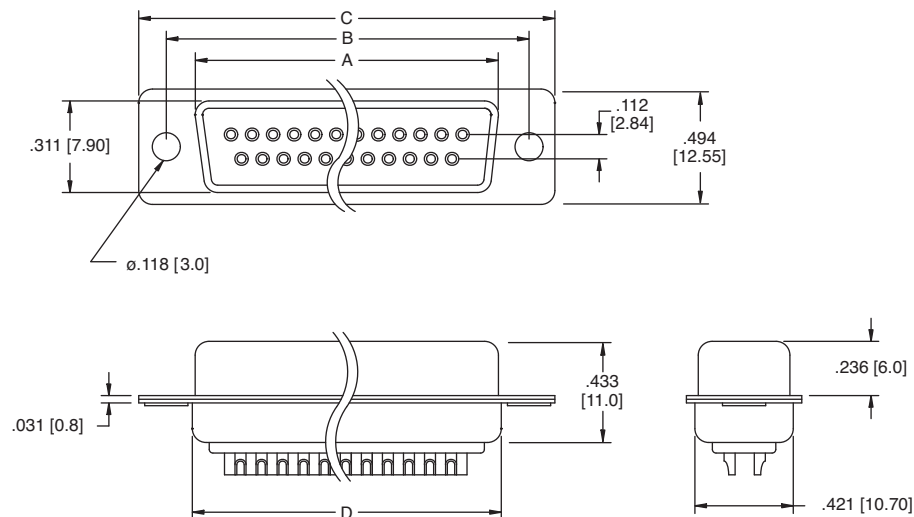


JS Option
Top side riveted #4-40
Jack Screws

PLUG



SOCKET



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]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

INTRODUCTION:

Adam Tech Crimp and Poke D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a low cost alternative to soldering a connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

FEATURES:

- Low cost no solder alternative
- 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: PBT, 30% glass reinforced, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold flash (15 and 30 μ in optional) over Nickel underplate.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 m Ω max. initial
 Insulation resistance: 5000 M Ω 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

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

HOUSING

DB25

SR

SL

SHELL SIZE/ POSITIONS

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

MOUNTING OPTIONS

Blank = .120" diameter mounting holes
 SL = Riveted #4-40 clinch nuts
 JS = Riveted #4-40 jackscrews

CONTACT TYPE

PR = Plug, Crimp and Poke
 SR = Socket, Crimp and Poke

CONTACTS

DCP

01

R

CONTACT WIRE RANGE

DCP = Plug Contact
 DCS = Socket Contact

CONTACT TYPE

01 = 24-26 AWG
 02 = 20-22 AWG
 03 = 28-30 AWG

PACKAGING

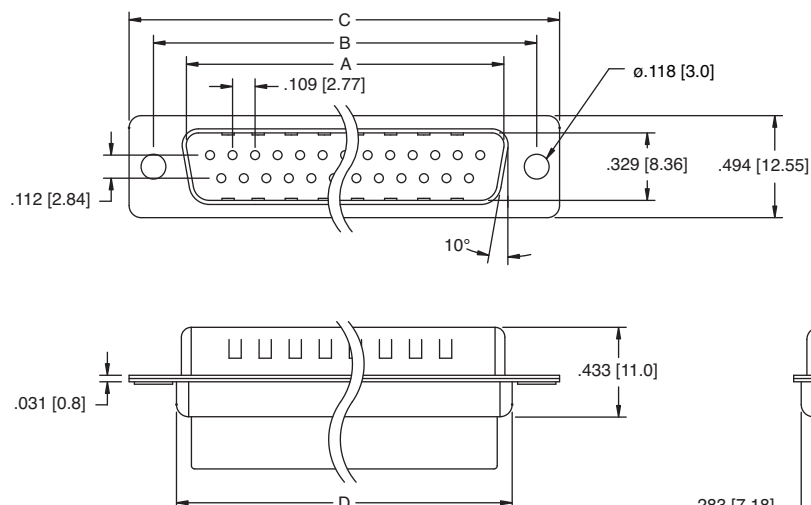
R = 10,000 piece reel

OPTIONS:

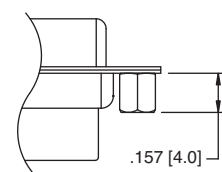
Add designator(s) to end of part number

15 = 15 μ in gold plating in contact area on crimp contacts
 30 = 30 μ in gold plating in contact area on crimp contacts

PLUG HOUSING

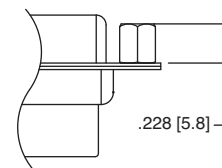
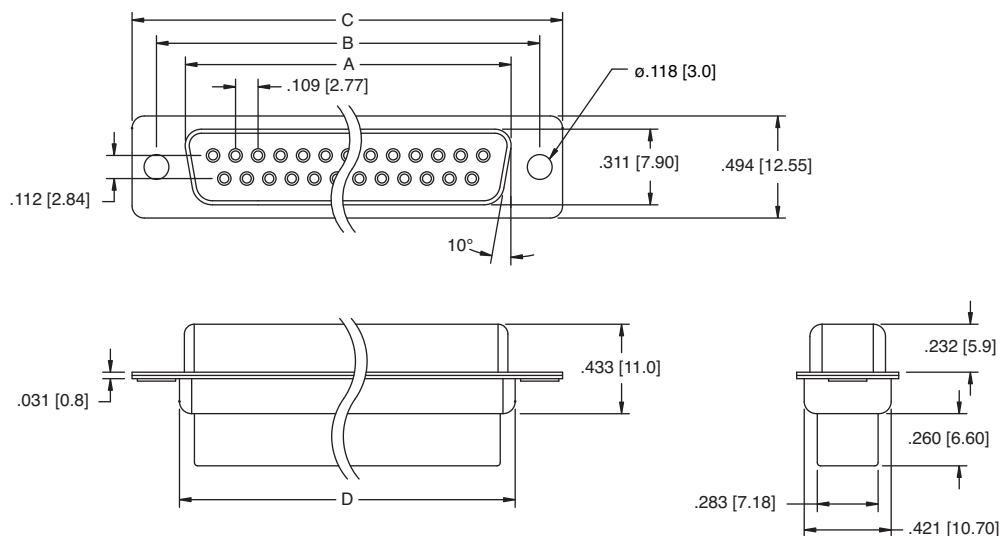


MOUNTING OPTIONS



SL Option
Bottom side riveted #4-40
Clinch Nuts

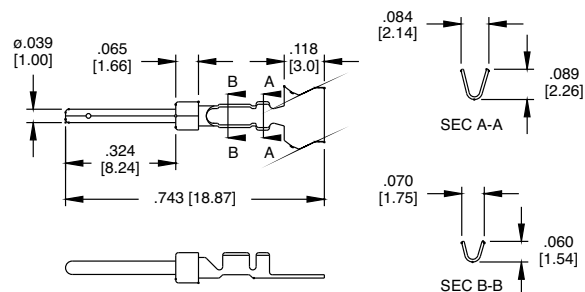
SOCKET HOUSING



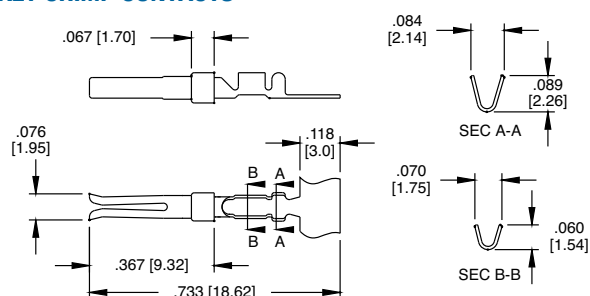
JS Option
Top side riveted #4-40
Jack Screws

See Dimension table pg. 81

PLUG CRIMP CONTACTS



SOCKET CRIMP CONTACTS



INTRODUCTION:

Adam Tech Flush Mount Straight PCB tail D-Sub connectors are a popular interface for many limited space 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:

- Low 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:

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 μ in optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. Initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

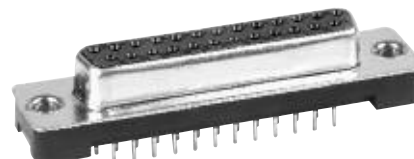
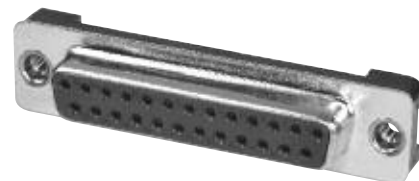
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

DB25

SA

M2

SHELL SIZE/ POSITIONS

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

CONTACT TYPE

PA = Plug, Flush mount,
Straight PCB Tail
SA = Socket, Flush Mount,
Straight PCB Tail

MOUNTING OPTIONS

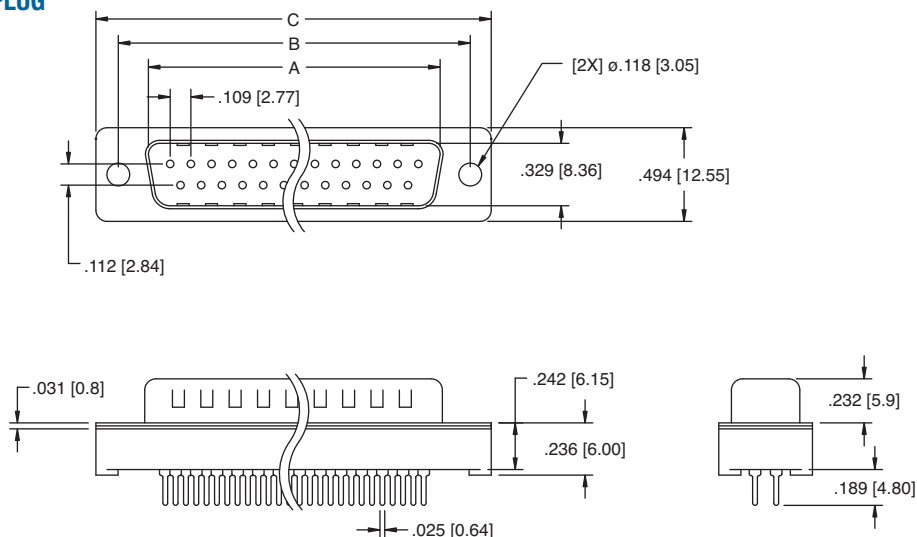
M1 = Thru Hole Mounting
M2 = #4-40 Threaded
mounting holes
M1-R3 = Riveted Round
Jackscrews on top
side
M2-R-BL = Riveted Round
Jackscrews on top
side with Boardlocks
underneath
M2-JS = #4-40 Threaded
Holes with
removable
Jackscrews
M2-BL = Riveted #4-40
Internal Threaded
Standoffs with
Boardlocks
M2-BL-JS = Removable
Jackscrews with
Boardlocks

OPTIONS:

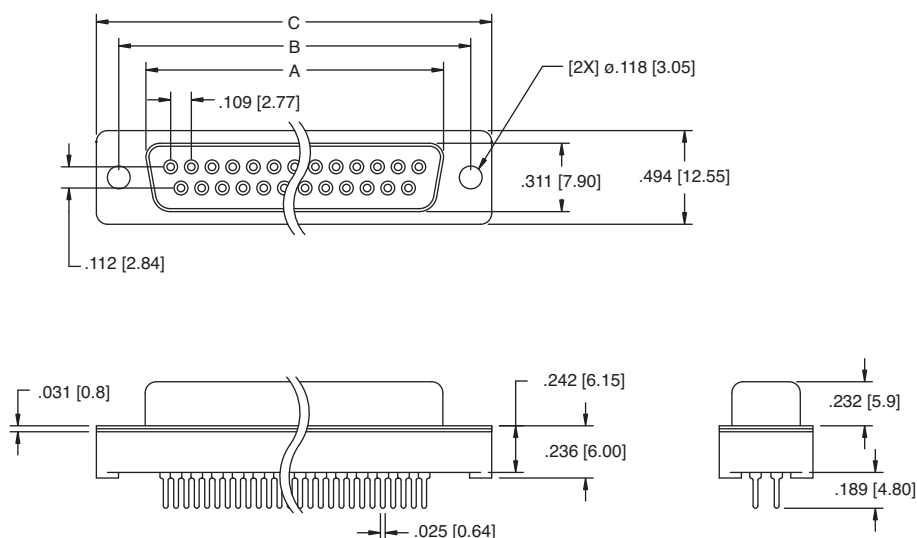
Add designator[s] to end of part number
15 = 15 μ in gold plating in contact area
30 = 30 μ in gold plating in contact area
PF = Press Fit Pins
HT = Hi-Temp insulator for hi-temp soldering
processes up to 260°C

MOUNTING OPTIONS

PLUG



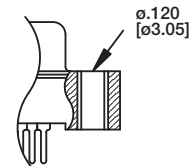
SOCKET



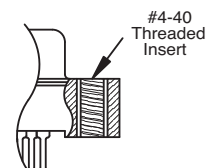
Unit: Inch [mm]

Positions	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]

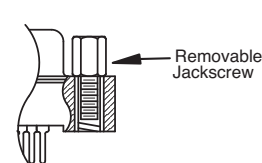
M1 Option Thru-Hole Mounting



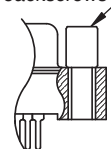
M2 Option Threaded Hole Mounting



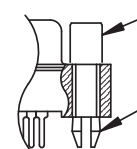
M2-JS Threaded Hole Mounting with removable Jack Screws



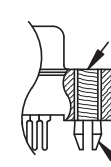
M1-R3 Riveted Round Jackscrews



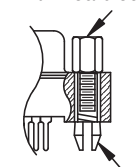
M2-R-BL Riveted Round Jackscrews with Boardlock



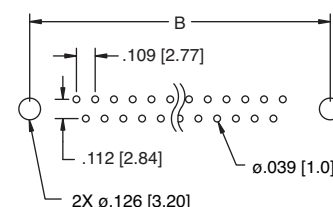
M2-BL #4-40 Threaded Insert with Boardlock



M2-BL-JS Removable Jackscrew with Boardlock



Press Fit PCB Tail Option



Recommended PCB Layout

INTRODUCTION:

Adam Tech Straight PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost, sturdy, full metal body industry standard connection. These connectors are manufactured with precision stamped or machined turned contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- 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 Colors: Black (White optional)

Contacts: Phosphor Bronze

Shell: Steel, Tin or Zinc plated

Hardware: Brass, Nickel plated

Contact Plating:

Gold flash (15 and 30 μ in optional) over Nickel underplate overall

Electrical:

Operating voltage: 250V AC / DC max.

Current rating: 5 Amps max.

Contact resistance: 20 m Ω max. initial

Insulation resistance: 5000 M Ω 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

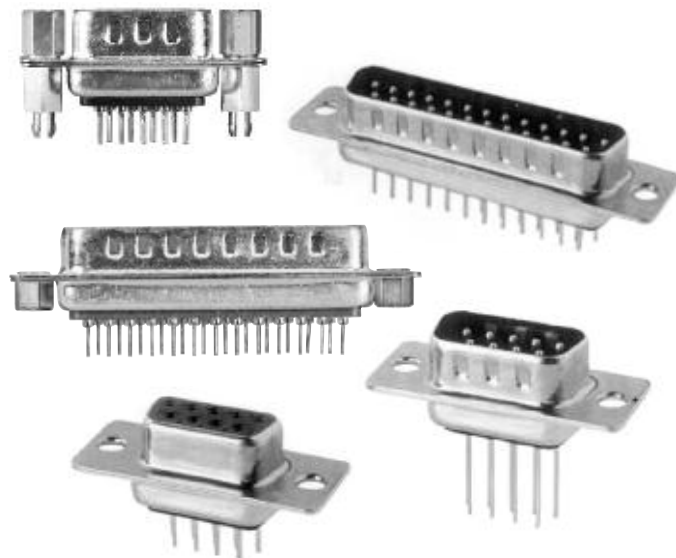
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

DB25	ST	1	SL
SHELL SIZE/ POSITIONS DE09 = 9 Position DA15 = 15 Position DB25 = 25 Position DC37 = 37 Position DD50 = 50 Position	CONTACT TYPE PT = Plug, Straight PCB Tail, Standard Profile ST = Socket, Straight PCB Tail, Standard Profile PE = Plug, Straight PCB Tail, High Profile SE = Socket, Straight PCB Tail, High Profile	TAIL LENGTH 1 = Standard tail length for .062"-.125" PCB's (E = .189") 2 = Wire wrap tail (E = .512")	MOUNTING OPTIONS Blank = .120" Mounting Holes SL = Bottom side riveted #4-40 Clinch Nuts JS = Top side riveted #4-40 Jackscrews BL = Riveted #4-40 Internal Threaded Standoffs with Boardlocks R = Riveted Round Jack Screws JSL = Bottom side riveted #4-40 Clinch Nuts with Jack Screws installed

OPTIONS:

Add designator(s) to end of part number

15 = 15 μ in gold plating in contact area

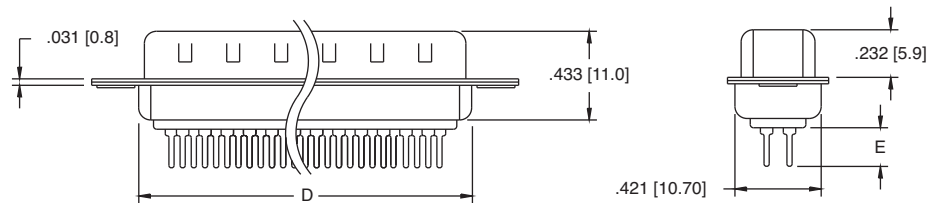
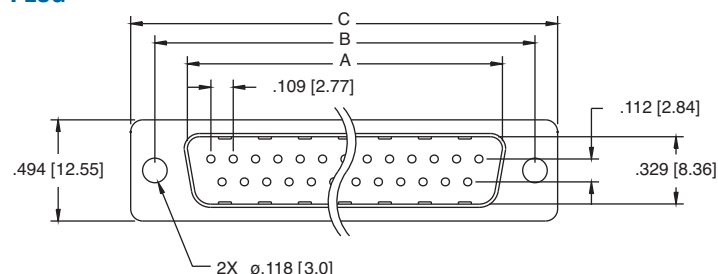
30 = 30 μ in gold plating in contact area

EMI = Ferrite filtered version for EMI / RFI suppression (Page 114)

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

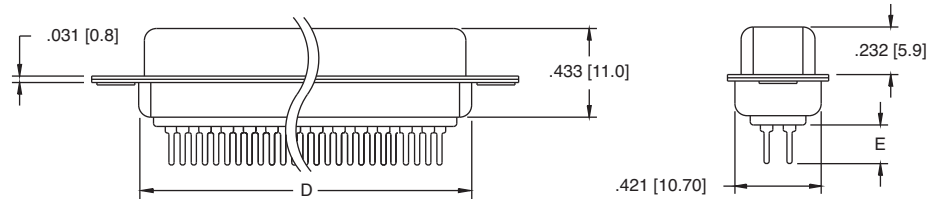
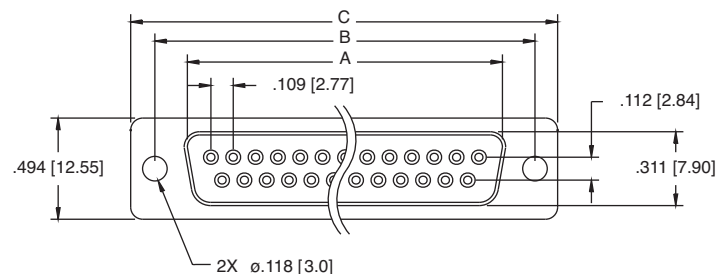
MOUNTING OPTIONS

PLUG

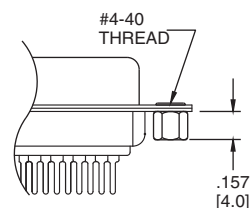


*E = .189" or .512"

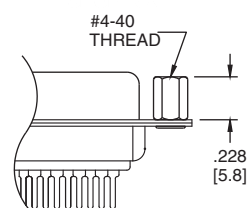
SOCKET



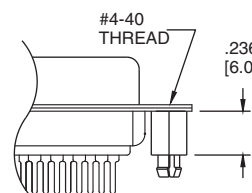
*E = .189" or .512"



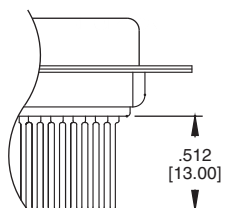
SL Option
Bottom side riveted #4-40
Clinch Nuts



JS Option
Top side riveted #4-40
Jack Screws



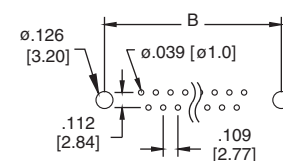
BL Option
#4-40 Threaded Boardlocks



Wire Wrap Tail Option
Terminal length -2
wire wrap tail

Unit: Inch [mm]

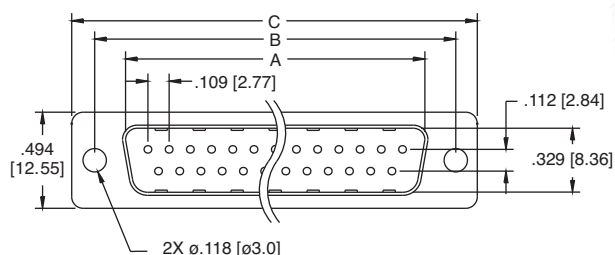
Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]



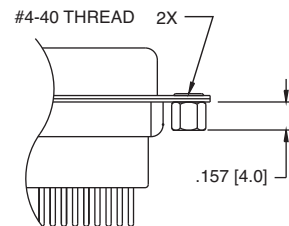
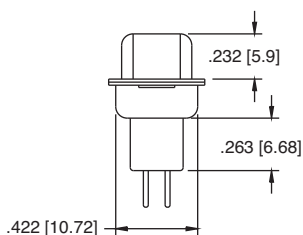
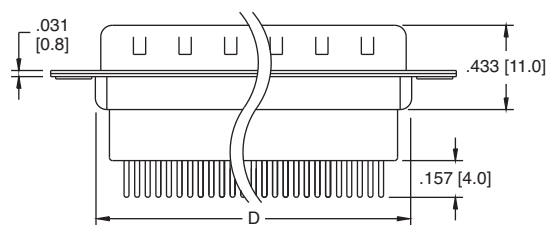
Recommended PCB Layout

MOUNTING OPTIONS

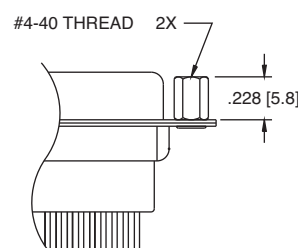
PLUG



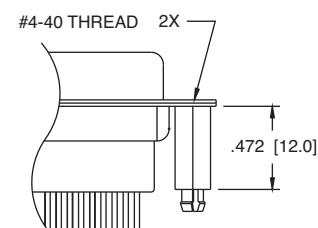
DB25-PE-1



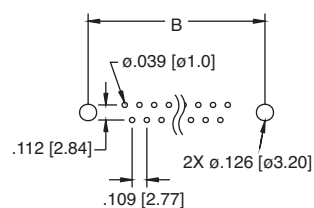
SL Option
Bottom side riveted #4-40
Clinch Nuts



JS Option
Top side riveted #4-40
Jack Screws

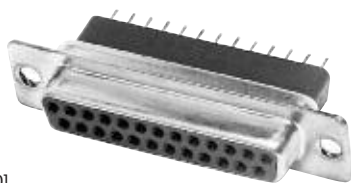
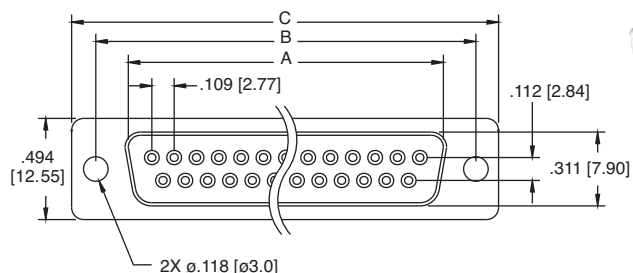


BL Option
#4-40 Threaded Boardlocks

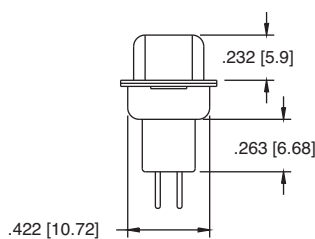
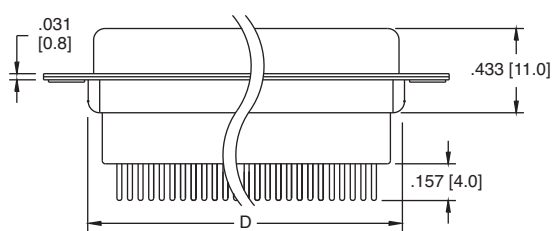


Recommended PCB Layout

SOCKET



DB25-SE-1



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]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

INTRODUCTION:

Adam Tech Dual Port D-Sub connectors are a popular space saving interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a good choice for a low cost industry standard connection and are ideal for PCB space saving applications. These connectors are manufactured with precision stamped contacts and are available in a number of connector combinations including same and mixed gender, mixed density and mixed interface. Options include a choice of contact plating and a variety of mating, mounting and grounding options.

FEATURES:

- Stacked 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: PBT, 30% glass reinforced, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold flash (15 and 30 μ in optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 m Ω max. initial
 Insulation resistance: 5000 M Ω min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

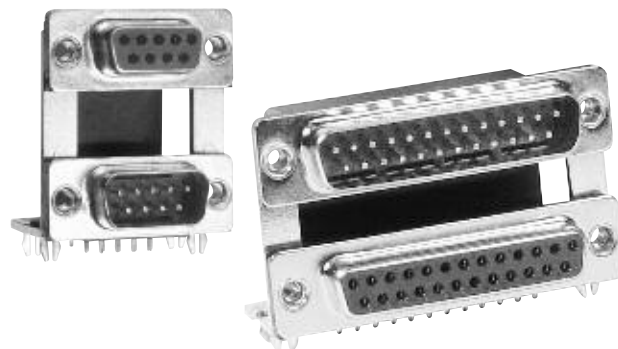
Operating temperature: -55°C to +105°C

PACKAGING:

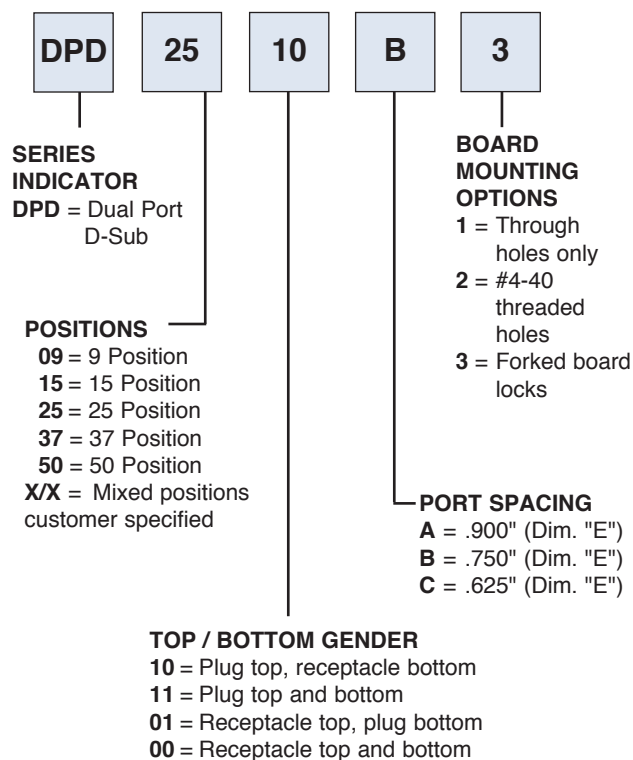
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



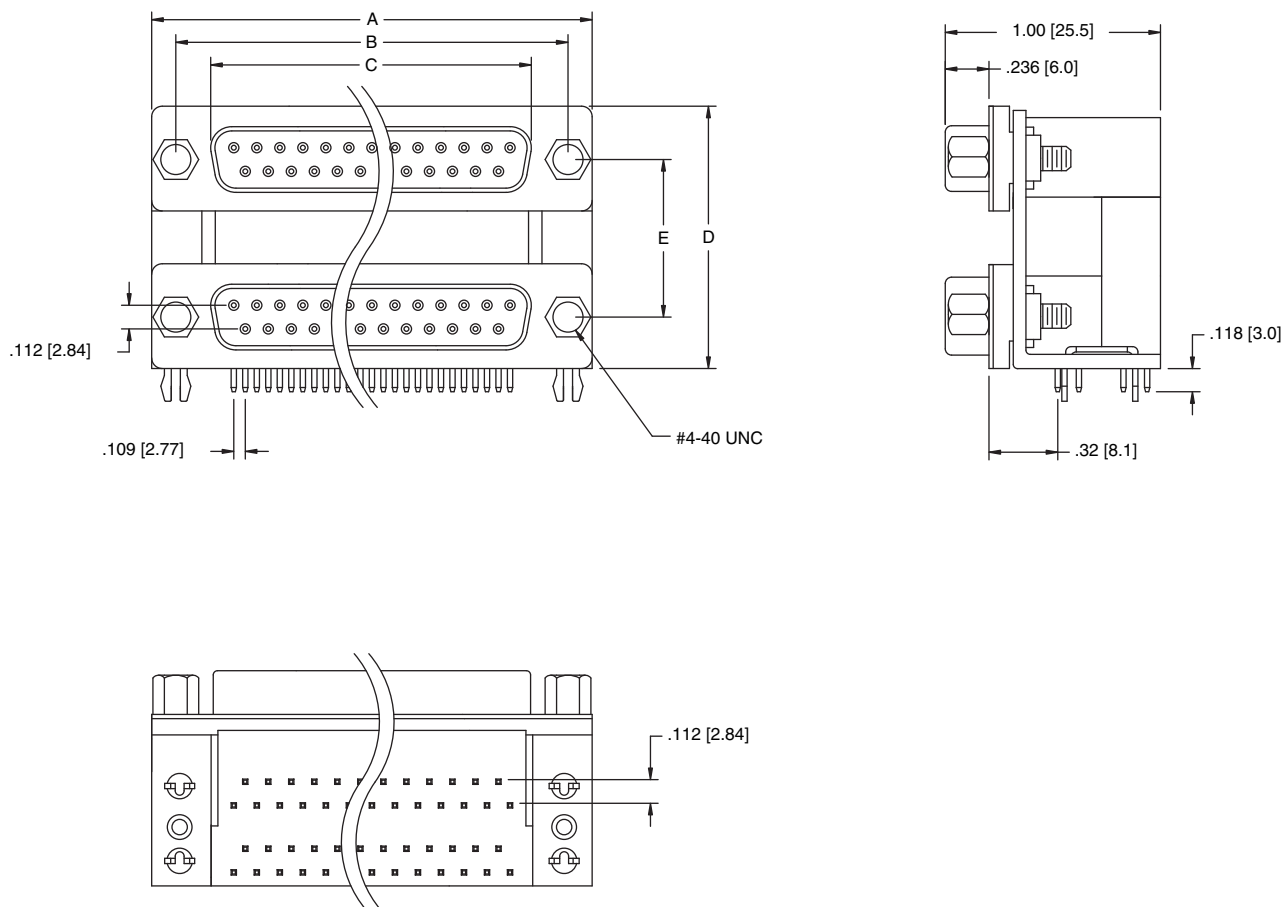
ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
 15 = 15 μ in gold plating in contact area
 30 = 30 μ in gold plating in contact area
 JS = #4-40 Jackscrews installed
 R = Rear boardlocks only
 F = Four prong board lock

DUAL PORT, RIGHT ANGLE



See page 99 for examples of various types we manufacture

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS			
	A	A	B	C	D	E
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	PORT HEIGHTS 1.119 [28.42] 1.244 [31.60] 1.394 [35.41]	PORT TO PORT CENTERLINE .900 [22.86] .750 [19.05] .625 [15.88]
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]		
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]		

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ADAM TECH:

[DE09-PT-1-BL-JS](#) [DB25-SL-24](#) [DE09-PL-24](#) [DE09-PL-25](#) [DE09-SL-24](#) [DE09-SL-25](#) [DA15PL15](#) [DB25SL15](#)