



CONNECTOR SAVERS FOR:

C O N N C C I D O S

- STANDARD DENSITY D-SUBMINIATURE
- HIGH DENSITY D-SUBMINIATURE
- COMBINATION D-SUBMINIATURE
- HIGH PERFORMANCE D-SUBMINIATURE



Rev J C001 Rev G <u>C004 Rev F</u> C005 Rev B1

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Positronic Provides Complete Capability

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Mission Statement

"To utilize product flexibility and application assistance to present quality interconnect solutions which represent value to customers worldwide."

Experience

- Founded in 1966
- Involvement in the development of international connector specifications through EIA®, IEC and ISO as well as PICMG®.

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- Introduction of new and unique connector products to the electronics industry.
- Patent holder for many unique connector features and manufacturing techniques.
- Vertically integrated manufacturing raw materials to finished connectors.

Technology

- Expertise with solid machined contacts provides a variety of high reliability connectors including high current density power connectors.
- Quality Assurance lab is capable of testing to IEC, EIA, UL, CUL, military and customer-specified requirements.
- In-house design and development of connectors based on market need or individual customer requirements.
- Internal manufacturing capabilities include automatic precision contact machining. injection molding, stamping, plating operations and connector assembly.
- Manufacturing locations in southwest Missouri, U.S.A. (headquarters); Puerto Rico, France, China, Singapore, and India. Total square footage: 407,441.

Support

- Quality Systems: Select locations qualified to ISO 9001, ISO 14001, AS9100, MIL-STD-790 and customer "dock to stock" programs. Applicable products gualified to MIL-DTL-24308, AS39029, DSCC 85039, MIL-DTL-28748, Space D32, GSFC S-311-P-4 and GSFC S-311-P-10.
- Compliance to a variety of international and customer specific environmental requirements.
- Large in-house inventory of finished connectors. Customer specific stocking programs.
- Factory direct technical sales support in major cities worldwide.
- One-on-one customer support from worldwide factory locations.
- World class web site.
- Value-added solutions and willingness to develop custom products with reasonable price and delivery.

Regional Headquarters

Springfield, MO

COLUMN TWO IS NOT Auch, France

Products described within this catalog may be protected by one or more of the following US patents: #4,900,261⁺ #5,255,580 #5,329,697 #6,260,268 #6,835,079 #7,115,002 [†]Patented in Canada, 1992 Other Patents Pending

POSITRONIC® IS AN ITAR REGISTERED COMPANY

Positronic Industries' FEDERAL SUPPLY CODE (Cage Code) FOR MANUFACTURERS is 28198

Unless otherwise specified, dimensional tolerances are:

- ±0.001 inches [0.03 mm] for male contact mating diameters. 1)
- 2) ±0.003 inches [0.08 mm] for contact termination diameters. 3)
 - ±0.005 inches [0.13 mm] for all other diameters. ±0.015 inches [0.38 mm] for all other dimensions.

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4)

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Singapore

Connector Savers

CONNECTOR DESCRIPTIONS



Connector Savers can be mated to a connector which would normally experience high numbers of mating cycles. The connector saver can be easily replaced, "saving" a connector which is not easily replaced.



STANDARD DENSITY CONNECTOR SAVER / GENDER CHANGER

AD and HAD Series available in five shell sizes. Standard density connector savers and gender changers. AD series female contacts feature a rugged open entry design for use with professional/industrial quality applications. HAD series female contacts feature the PosiBand[®] closed entry design for even higher reliability or military quality D-subminiature connectors.



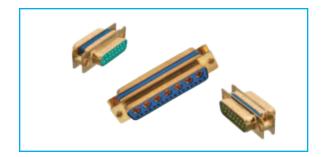
HIGH DENSITY CONNECTOR SAVER / GENDER CHANGER

DAD Series available in six shell sizes. The high density connector savers and gender changers. DAD female contacts can be supplied in either open entry design for use with professional/ military quality applications or PosiBand closed entry designs for use in any application requiring high performance characteristics including military.



COMBO-D CONNECTOR SAVERS

ACBDP and ACBMP Series available for all standard Combo-D variants in shell sizes 1 through 6. Combo-D connector savers with size 20 and size 8 contacts. ACBDP series female contacts feature a rugged open entry design for use in professional/ industrial quality applications. ACBMP series female contacts feature the PosiBand[®] closed entry design for even higher reliability including military.



SPACE-D CONNECTOR SAVERS

SAD, SADD and SACBMP Series. Standard density, high density or Combo-D variants available. High reliability, non-outgassing, low magnetism connectors conforming to applicable material, dimensional and performance requirements of GSFC S-311-P4, GSFC S-311-P10 and DSCC specification 85039. All three series' female contacts feature the PosiBand[®] closed entry design suitable for high performance applications including space flight.



STANDARD DENSITY **CONNECTOR SAVERS / GENDER CHANGERS**

D-Sub

AD Series Size 20 "Open Entry" **Contact Design**

HAD Series Size 20 PosiBand[®] "Closed **Entry**" Contact Design

Connector Saver

AD and HAD series connectors are suitable for use in any applications requiring high performance characteristic. The normal density AD and HAD series are available in five standard connector variants of 9, 15, 25, 37 and 50 contacts.

AD and HAD series connectors utilize precision machined contacts for strength and durability. AD series female contact features a rugged open entry design. HAD series female contact features the PosiBand closed entry design for even higher reliability, see page 1 for details.



AD and HAD series connectors can be mated to a connector which would normally experience high numbers of mating cycles. The AD/HAD connector can be easily replaced, "saving" a connector which is not easily replaced.

These connectors can also be used as a "gender changer". Connectors are available in high density versions, see page 75.

TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: AD series: HAD series:	Nylon resin, UL 94V-0, black color. Glass-filled DAP per ASTM-D-5948, UL 94V-0.
Contacts:	Precision machined copper alloy.
Contact Plating:	Gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel with tin plate; zinc plate with chromate seal, stainless steel passivated. Other materials and finishes available upon request.

Low magnetic versions are available, contact Technical Sales.

MECHANICAL CHARACTERISTICS:

Fixed Contacts:	Size 20 contacts, male - 0.040 inch [1.02 mm] mating diameter. AD series female contact offers open entry design. HAD series female contact features PosiBand closed entry design, see page 1 for details.
Connector Saver:	Male to female or male to male.
Contact Retention:	9 lbs. [40 N].
Shells:	Male shells may be dimpled for EMI/ESD ground paths.

Polarization:

AD series:

HAD series:

Trapezoidally shaped shells.

Mechanical Operations: 500 operations, minimum, per IEC 60512-5. 1,000 operations, minimum, per IEC 60512-5.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating:

Open Entry Contacts:	7.5 amperes nominal
Closed Entry Contacts,	tested per UL 1977:
	18 amperes, 2 contacts energi

ized. 14 amperes, 6 contacts energized. 11 amperes, 15 contacts energized. 10 amperes, 25 contacts energized. 9 amperes, 50 contacts energized.

See temperature rise curves on page 2 for details.

Initial Contact Resistance:	0.008 ohms, maximum for AD series. 0.004 ohms, maximum for HAD series.
Proof Voltage:	1,000 V r.m.s.
Insulation Resistance:	5 G ohms.
Clearance and Creepage Distance:	0.039 inch [1.0 mm], minimum.
Working Voltage:	300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range:	-55°C to +125°C.
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DIMENSIONS ARE IN INCHES [MILLIMETERS]. 71 ALL DIMENSIONS ARE SUBJECT TO CHANGE.



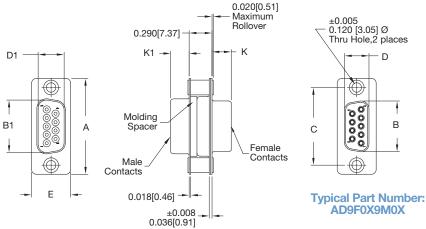
AD AND HAD SERIES SIZE 20 CONTACT CONNECTOR SAVER

CONTACT VARIANTS

FACE VIEW OF MALE OR USE MIRROR IMAGE FOR FEMALE



STANDARD SHELL ASSEMBLY DIMENSIONS SIZE 20 CONTACTS



K <u>±0.005</u> [0.13] В **B1** D CONNECTOR 0.015 <u>+0.005</u> [0.13] ±0.005 <u>±0.015</u> <u>±0.005</u> [0.13] <u>±0.005</u> [0.13] [0.13] [0.38] [0.38] [0.13]1.213 0.666 0.984 0.329 0.494 0.233 9 M [30.81] [16.92] [24.99] [8.36] [12.55] [5.92] 0.494 1.213 0.643 0.984 0.311 0.243 9 F [16.33] [7.90] [12.55] [6.17] [30.81] [24.99] 1.541 0.994 1.312 <u>0.329</u> <u>0.494</u> 0.233 15 M [39.14] [25.25] [33.32] [8.36] [12.55] [5.92] <u>1.541</u> <u>0.971</u> <u>1.312</u> <u>0.311</u> <u>0.494</u> <u>0.243</u> 15 F [39.14] [24.66] [33.32] [7.90] [12.55] [6.17] 0.494 2.088 1.534 1.852 0.329 0.230 25 M [8.36] [12.55] [53.04] [38.96] [47.04] [5.84] 2.088 <u>1.511</u> 1.852 0.311 0.494 0.243 25 F [53.04] [38.38] [47.04] [7.90] [12.55] [6.17] <u>2.729</u> <u>2.182</u> 2.500 0.329 <u>0.494</u> 0.230 37 M [69.32] [55.42] [63.50] [8.36] [12.55] [5.84] <u>2.500</u> 0.494 2.729 2.159 0.311 0.243 37 F [54.84] [69.32] [63.50] [7.90] [12.55] [6.17] 2.635 2.079 2.406 0.605 0.230 0.441 50 M [66,93] [52.81] [61.11] [11.20] [15.37] [5.84] 0.423 2.635 <u>2.064</u> 2.406 0.605 0.243 50 F [52.43] [66.93] [61.11] [10.74] [15.37] [6.17]

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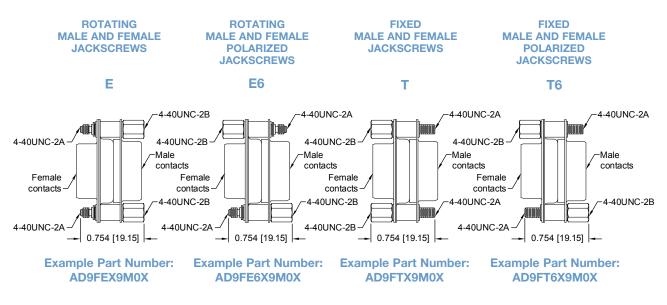
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STANDARD DENSITY CONNECTOR SAVERS / GENDER CHANGERS

JACKSCREW SYSTEMS CODE E, E6, T AND T6



MATERIAL: Brass or steel with zinc plate and chromate seal or clear zinc plate or tin plate; stainless steel, passivated.



Positronic **D-subminiature** connectors can be modified to customer specifications.

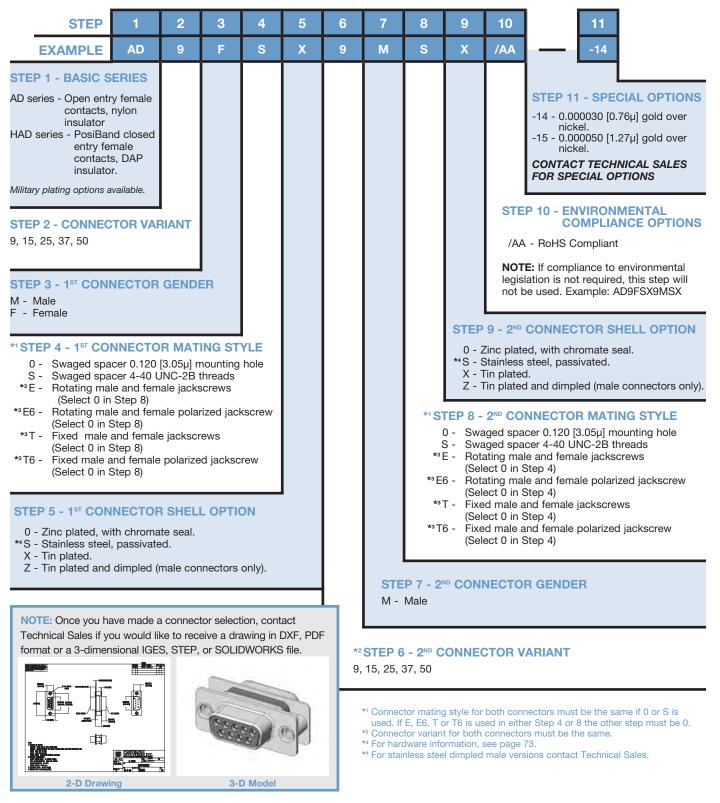
Examples: select loading of contacts for cost savings or to gain creepage and clearance distances; longer printed circuit board terminations; customer specified hardware; sealing for water resistance.

Contact Technical Sales with your particular requirements.



ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 9





HIGH DENSITY CONNECTOR SAVERS / GENDER CHANGERS

DAD Series Size 22 "Open Entry" or PosiBand[®] "Closed Entry" Contact Design

Connector Saver

DAD series connectors can be mated to a connector which would normally experience high numbers of mat-

DAD series connectors are suitable for use in any applications requiring high performance characteristic. The high density DAD series is available in six standard connector variants of 15, 26, 44, 62, 78 and 104 contacts.

DAD series connectors utilize precision machined contacts for strength and durability. The female contact features a rugged open entry design. Female PosiBand closed entry contacts can be chosen for even higher reliability, see page 1 for details. Connectors are available in standard density versions, see page 71.

ing cycles. The DAD connector can be easily replaced,

"saving" a connector which is not easily replaced.

TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:	Polyester glass-filled per ASTM D5927, UL 94V-0.			
Contacts:	Precision machined copper alloy.			
Contact Plating:	Gold flash over nickel plate. Other finishes available upon request.			
Shells:	Steel or brass with tin plate; zinc plate with chromate seal, stainless steel passivated. Other materials and finishes available upon request.			

Low magnetic versions are available, contact Technical Sales.

MECHANICAL CHARACTERISTICS:

Fixed Contacts:	Size 22 contacts - male 0.030 inch [0.76 mm] mating diameter. Female contact: open entry or PosiBand closed entry design, see page 1 for details.
Connector Saver:	Male to female.
Contact Retention:	9 lbs. [40 N].
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells.

Mechanical Operations:

500 operations, minimum, per IEC 60512-5 for open entry. 1000 operations, minimum, per IEC 60512-5 for closed entry.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating:

Open Entry Contacts:	5 amperes nominal
Closed Entry Contacts.	tested per UL 1977:

12 amperes, 2 contacts energized.
10 amperes, 6 contacts energized.
7.5 amperes, 26 contacts energized.
6.5 amperes, 62 contacts energized.
5.0 amperes, 104 contacts energized.
See temperature rise curves on page 2 for details.

Initial Contact Resistance:	0.010 ohms, maximum for open entry 0.005 ohms, maximum for closed entry
Proof Voltage:	1,000 V r.m.s.
Insulation Resistance:	5 G ohms.
Clearance and	
Creepage Distance:	0.042 inch [1.06 mm], minimum.
Working Voltage:	300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range:	55°C to	+125°C.
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D-Sub

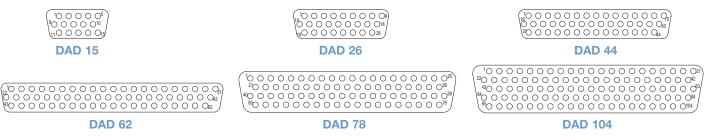
HIGH DENSITY CONNECTOR SAVERS / GENDER CHANGERS



DAD SERIES SIZE 22 CONTACT CONNECTOR SAVER

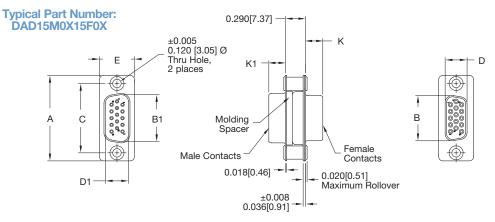
CONTACT VARIANTS

FACE VIEW OF MALE OR USE MIRROR IMAGE FOR FEMALE



STANDARD SHELL ASSEMBLY DIMENSIONS

SIZE 22 CONTACTS



CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B <u>±0.005</u> [0.13]	B1 <u>±0.005</u> [0.13]	C <u>±0.005</u> [0.13]	D <u>±0.005</u> [0.13]	D1 <u>±0.005</u> [0.13]	E <u>±0.015</u> [0.38]	K <u>±0.005</u> [0.13]	K1 <u>±0.005</u> [0.13]
15 M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.233</u> [5.92]
15 F 15 S	<u>1.213</u> [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
26 M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	<u>1.312</u> [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.233</u> [5.92]
26 F 26 S	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		<u>1.312</u> [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
44 M	<u>2.088</u> [53.04]		<u>1.534</u> [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.230</u> [5.84]
44 F 44 S	<u>2.088</u> [53.04]	<u>1.511</u> [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
62 M	<u>2.729</u> [69.32]		<u>2.182</u> [55.42]	<u>2.500</u> [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.230</u> [5.84]
62 F 62 S	<u>2.729</u> [69.32]	<u>2.159</u> [54.84]		<u>2.500</u> [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
78 M	<u>2.635</u> [66.93]		<u>2.079</u> [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]		<u>0.230</u> [5.84]
78 F 78 S	<u>2.635</u> [66.93]	<u>2.064</u> [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	<u>0.243</u> [6.17]	
104 M	<u>2.729</u> [69.32]		<u>2.212</u> [56.18]	<u>2.500</u> [63.50]		<u>0.503</u> [12.78]	<u>0.668</u> [16.97]		<u>0.230</u> [5.84]
104 F 104 S	<u>2.729</u> [69.32]	<u>2.189</u> [55.60]		<u>2.500</u> [63.50]	<u>0.485</u> [12.32]		<u>0.668</u> [16.97]	<u>0.243</u> [6.17]	



ORDERING INFORMATION - CODE NUMBERING SYSTEM Specify Complete Connector By Selecting An Option From Step 1 Through 9 **STEP** 2 3 6 7 8 9 4 10 11 **EXAMPLE** DAD 15 Μ S X 15 F S Х /AA .14 **STEP 11 - SPECIAL OPTIONS STEP 1 - BASIC SERIES** -14 - 0.000030 [0.76µ] gold over DAD series nickel. -15 - 0.000050 [1.27µ] gold over nickel CONTACT TECHNICAL SALES **STEP 2 - CONNECTOR VARIANT** FOR SPECIAL OPTIONS 15, 26, 44, 62, 78, 104 STEP 3 - 1st CONNECTOR GENDER **STEP 10 - ENVIRONMENTAL COMPLIANCE OPTIONS** M - Male /AA - RoHS Compliant *2 STEP 4 - 1ST CONNECTOR MATING STYLE NOTE: If compliance to environmental legislation is not required, this step will 0 - Swaged spacer 0.120 [3.05µ] mounting hole S -Swaged spacer 4-40 UNC-2B threads not be used. Example: DAD15MSX15FSX *³E -Rotating male and female jackscrews (Select 0 in Step 8) *³E6 -Rotating male and female polarized jackscrew **STEP 9 - 2ND CONNECTOR SHELL OPTION** (Select 0 in Step 8) 0 - Zinc plated, with chromate seal. *3 T -Fixed male and female jackscrews *5 S - Stainless steel, passivated. (Select 0 in Step 8) X - Tin plated. *³T6 -Fixed male and female polarized jackscrew Z - Tin plated and dimpled (male connectors only). (Select 0 in Step 8) **STEP 8 - 2ND CONNECTOR MATING STYLE **STEP 5 - 1st CONNECTOR SHELL OPTION** 0 - Swaged spacer 0.120 [3.05µ] mounting hole 0 - Zinc plated, with chromate seal, Swaged spacer 4-40 UNC-2B threads S -*5 S - Stainless steel, passivated. *3 E -Rotating male and female jackscrews X - Tin plated. (Select 0 in Step 4) Z - Tin plated and dimpled (male connectors only). *3 E6 -Rotating male and female polarized jackscrew (Select 0 in Step 4) *3 T -Fixed male and female jackscrews *1 Male option available only on connector variant 78. (Select 0 in Step 4) *2 Connector mating style for both connectors must be the same if *³T6 -Fixed male and female polarized jackscrew 0 or S is used. If E, E6, T or T6 is used in either Step 4 or 8 the (Select 0 in Step 4) other step must be 0. *³ For hardware information, see page 73. STEP 7 - 2ND CONNECTOR GENDER *4 Connector variant for both connectors must be the same as in Step 2 *1 M - Male For stainless steel dimpled male versions contact Technical - Female - Professional Level - open entry contacts F Sales. S - Female - Industrial Level - PosiBand closed entry contacts Military plating options available. NOTE: Once you have made a connector selection, contact Technical Sales if you would like to receive a drawing in DXF, PDF *4 STEP 6 - 2ND CONNECTOR VARIANT format or a 3-dimensional IGES, STEP, or SOLIDWORKS file. 15, 26, 44, 62, 78, 104

DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

3-D Model

2-D Drawing



COMBO-D CONNECTOR SAVERS GENDER CHANGERS

Combo-D D-Sub

Professional Quality Connectors ACBDP Series Size 20 "Open Entry" or PosiBand[®] "Closed Entry" Contact Design

Industrial /Military Quality Connectors - ACBMP Series Size 20 PosiBand® "Closed Entry" Contact Design Connector Saver



ACBDP and ACBMP series connectors are suitable for use in any applications requiring high performance characteristic. The normal density ACBDP and ACBMP series are available in standard Combo-D connector variants.

ACBDP and ACBMP series connectors utilize precision machined contacts for strength and durability. The ACBDP female contact features a rugged "Open Entry" design or PosiBand "Closed Entry" design for even higher reliability. ACBMP connectors features PosiBand "Closed Entry" contacts and military contact plating. ACBDP and ACBMP series connectors can be mated to a connector which would normally experience high numbers of mating cycles. The ACBDP/ACBMP connector can be easily replaced, "Saving" a connector which is not easily replaced.

These connectors can also be used as a "gender changer". Connector Savers are also available in standard and high density D-subminiature versions, please consult our Professional, Industrial and Military Performance D-subminiature Connectors catalog for more information.

For high density 8W2, 19W1 and 45W2 adapter variants contact Technical Sales.

TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:	Glass filled polyester per ASTM D 5927
	UL 94V-0, blue color.
SIGNAL CONTACTS:	
ACBDP Series:	Precision machined high tensile copper alloy open entry design.
ACBMP Series:	Precision machined copper alloy PosiBand closed entry design.
POWER CONTACTS:	Precision machined copper alloy closed entry design.
Contact Plating:	
ACBDP Series:	Gold flash over nickel plate.
ACBMP Series:	0.000050 [1.27µ] gold over nickel plate.
Shells:	Steel with tin plate; zinc plate with chromate seal; stainless steel passivated. Other materials and finishes available upon request.

Jackscrew Systems:	Brass or steel with zinc plate and chromate seal				
	or clear zinc plate or tin plate; stainless steel,				
	passivated.				
Non-magnetic versions are available, contact Technical Sales.					

MECHANICAL CHARACTERISTICS:

FIXED CONTACTS:

SIGNAL CONTACTS: Size 20 contacts, male - 0.040 inch [1.02 mm] diameter. ACBDP series has female open entry contact or PosiBand closed entry contacts optional, see page 69 for details. ACBMP series offer female PosiBand closed entry contacts.

POWER CONTACTS: Size 8 contacts, male - 0.142 inch [3.61 mm] diameter. Female contact features Large Surface Area (L.S.A.) closed entry contact design utilizing BeCu mechanical retention member.

COMBO-D CONNECTOR SAVERS GENDER CHANGERS

Positronic connectpositronic.com

TECHNICAL CHARACTERISTICS, continued

continued from previous page. . . .

MECHANICAL CHARACTERISTICS, continued:

Connector Saver:	Male to female or male to male.
Contact Retention:	
Signal: Power:	9 lbs. [40 N]. 22 lbs. [98 N].
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells.
Mechanical Operations	:
ACBDP Series:	500 operations, minimum, per IEC 60512-5.
ACBMP Series:	1,000 operations, minimum, per IEC 60512-5.

ELECTRICAL CHARACTERISTICS:

SIZE 20 CONTACTS **Contact Current Rating:** 7.5 amperes, nominal. Initial Contact Resistance: 0.008 ohms, maximum. **Proof Voltage:** 1,000 V r.m.s. SIZE 8 CONTACTS POWER CONTACTS Contact Current Rating: 70 amperes, per UL 1977. See Temperature Rise Curves on pages 1-2. Initial Contact Resistance: 0.0005 ohms, maximum Proof Voltage: 1,000 V r.m.s. CONNECTOR Insulation Resistance: 5 G ohms. Clearance and Creepage Distance:

0.039 inch [1.0 mm], minimum. 300 V r.m.s.

-55°C to +125°C.

CLIMATIC CHARACTERISTICS:

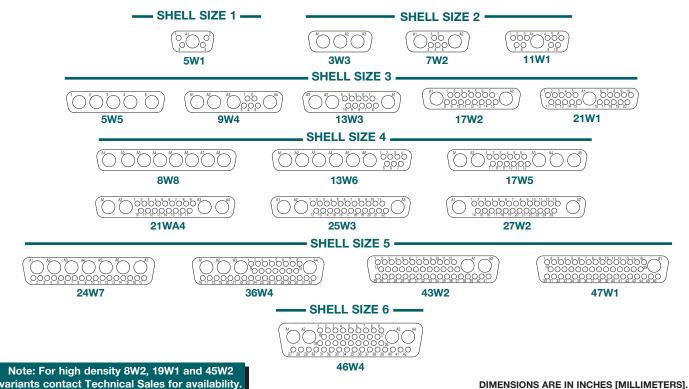
Temperature Range:

Working Voltage:

ACBDP/ACBMP SERIES SIZE 20 AND SIZE 8 CONTACT CONNECTOR SAVER

CONTACT VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE





COMBO-D **CONNECTOR SAVERS GENDER CHANGERS**

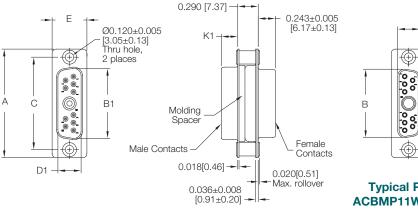
Combo-D **D-Sub**

STANDARD SHELL ASSEMBLY DIMENSIONS

SIZE 20 AND SIZE 8 CONTACTS CODE 0 AND S

NOTE:

Code S = Swaged spacer with 4-40 UNC-2B threads.



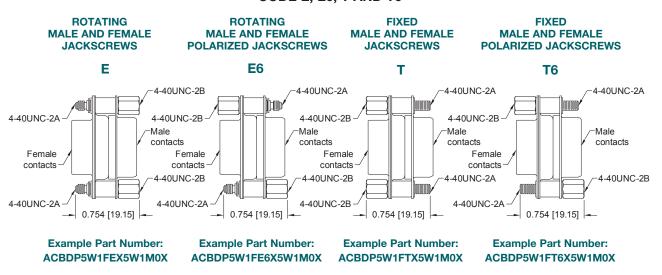
Typical	Part	Numbe	r:
ACBMP11	W1F0	0011W1I	M00

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CONNECTOR	A	В	B1	C	D	D1	E	K1
SIZE	±0.015	±0.005	±0.005	±0.005	±0.005	±0.005	±0.015	±0.005
SHELL SIZE 1	<u>1.213</u>	<u>0.643</u>	<u>0.666</u>	<u>0.984</u>	<u>0.311</u>	<u>0.329</u>	<u>0.494</u>	<u>0.233</u>
	[30.81]	[16.33]	[16.92]	[24.99]	[7.90]	[8.36]	[12.55]	[5.92]
SHELL SIZE 2	<u>1.541</u>	<u>0.971</u>	<u>0.994</u>	<u>1.312</u>	<u>0.311</u>	<u>0.329</u>	<u>0.494</u>	<u>0.233</u>
	[39.14]	[24.66]	[25.25]	[33.32]	[7.90]	[8.36]	[12.55]	[5.92]
SHELL SIZE 3			<u>1.534</u> [38.96]	<u>1.852</u> [47.04]	<u>0.311</u> [7.90]	<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.230</u> [5.84]
SHELL SIZE 4	<u>2.729</u>	<u>2.159</u>	<u>2.182</u>	<u>2.500</u>	<u>0.311</u>	<u>0.329</u>	<u>0.494</u>	<u>0.230</u>
	[69.32]	[54.84]	[55.42]	[63.50]	[7.90]	[8.36]	[12.55]	[5.84]
SHELL SIZE 5	<u>2.635</u>	<u>2.064</u>	<u>2.079</u>	<u>2.406</u>	<u>0.423</u>	<u>0.441</u>	<u>0.605</u>	<u>0.230</u>
	[66.93]	[52.43]	[52.81]	[61.11]	[10.74]	[11.20]	[15.37]	[5.84]
SHELL SIZE 6	<u>2.729</u>	<u>2.189</u>	<u>2.212</u>	<u>2.500</u>	<u>0.485</u>	<u>0.503</u>	<u>0.668</u>	<u>0.230</u>
	[69.32]	[55.60]	[56.18]	[63.50]	[12.32]	[12.78]	[16.97]	[5.84]

JACKSCREW SYSTEMS CODE E, E6, T AND T6





ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 9

STEP	1	2	3	4	5	6	7	8	9	10	11		
EXAMPLE	ACBDP	11W1	F	S	X	11W1	М	S	X	/AA	-14		
STEP 1 - BASIC S ACBDP – Professional Industrial Quality, see ACBMP – Military conf with "closed entry" fe nal contacts plated C [1.27µ] gold over nic Choose "S" or "M" ir STEP 2 - CONNEC Shell Size 1	/ e Step 3. formance emale sig- 0.000050 kel plate. n Step 3.	RIANT									STEP 11 - SPECIAL OPTIONS FOR SPECIAL OPTIONS, SEE SPECIAL OPTIONS APPENDIX ON PAGE 81. P 10 - ENVIRONMENTAL COMPLIANCE OPTIONS		
Shell Size 1 Sw1 Shell Size 2 Sw3, 7W2, 11W1 Shell Size 3 5W5, 9W4, 13W3, 17W Shell Size 4 8W8, 13W6, 17W5, 21 Shell Size 5 24W7, 36W4, 43W2, 4 Shell Size 6 46W4	WA4, 25W	3, 27W2							0 - *4 S -	 /AA - RoHS Compliant NOTE: If compliance to environmental legislation is not required, this step will not be used. Example: ACBDP11W1FSX11W1MSX EP 9 - 2ND CONNECTOR SHELL OF Zinc Plated, with Chromate Seal. Stainless Steel, passivated. Tin Plated. 			
Note: For high density 8W2, 19W1 and 45W2 variants contact Technical Sales for availability. STEP 3 - 1ST CONNECTOR GENDER F - Female - Professional Level - Open Entry Signal Contacts *1M - Male S - Female - Industrial / Military Level - PosiBand Closed Entry Signal Contacts. Military gold plating is optional.								(3 *3 E *3 E	Z – TEP 8 - 0 - Swag S - Swag E - Rotat (Selec 6 - Rotat (Selec T - Fixed (Selec 6 - Fixed (Selec 6 - Fixed	Tin Plate 2[№] CO ged spac jed spac ing male ct 0 in St male ar ct 0 in St male ar ct 0 in St	ad and Dimpled (male connectors only). NNECTOR MATING STYLE er 0.120 [3.05µ] mounting hole er 4-40 UNC-2B threads and female jackscrews ep 4) and female polarized jackscrew ep 4) d female jackscrews ep 4) d female polarized jackscrew		
 *2 STEP 4 - 1ST CO 0 - Swaged space S - Swaged space *3 E - Rotating male (Select 0 in State) *3 E6 - Rotating male (Select 0 in State) *3 T - Fixed male and (Select 0 in State) *3 T6 - Fixed male and (Select 0 in State) 	er 0.120 [3 er 4-40 UN and femal Step 8) and femal tep 8) nd female j tep 8) id female p	.05µ] mc IC-2B thr e jackscr e polarize ackscrew	ounting he reads ews ed jacksc	ole crew		Sele	M - TEP 6 - ct same	Male 2 ND CO variant as	NNECT s chosen	OR VA			
STEP 5 - 1ST CO 0 - Zinc Plated, v **S - Stainless Stee X - Tin Plated. Z - Tin Plated and	vith Chroma el, passivate	ate Seal. ed.				*2 Conn T or 1 *3 For h *4 For s	ector mati F6 is used ardware in tainless st	nformation eel dimple	or both con Step 4 or 8 I, see page d male ver	nnectors r 3 the other e 59. rsions, cor	nust be the same if 0 or S is used. If E, E6, r step must be 0. ntact Technical Sales. be the same.		

High SAD SERIES Performance **MILITARY / SPACE FLIGHT QUALITY Positronic Industrie D**-sub STANDARD DENSITY CONNECTOR SAVER connectpositronic.com High performance for use in harsh environments, including space flight Size 20 fixed contacts. Female closed entry contacts utilize the "PosiBand®" system. See page 1 for details. Five connector variants include **Conforming To Applicable** 9, 15, 25, 37, and 50 contacts. Material, Dimensional and Suitable for use as connector saver or Performance Requirements: gender changer. • GSFC S-311-P4 & GSFC S-311-P10 • MIL-DTL-24308 Class M A wide variety of jackscrew options allows Conforming To Outgassing for mechanical keying. **Requirements:** • ASTM E-595 & NASA-BP-1124

TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Connector Insulator: Glass-filled DAP per ASTM-D-5948, UL 94V-0, ASTM E-595, NASA-RP-1124. Contacts: Precision machined copper alloy. 0.000050 inch [1.27 microns] gold over copper plate. Other finishes are available; see page 95. **Connector Housing** (Shells), Spacers and Brass with 0.000050 inch [1.27 microns] Jackscrew Systems: gold over copper plate. **MECHANICAL CHARACTERISTICS:** Size 20 Fixed: Male contact - 0.040 inch [1.02 mm] mating diameter. Female contact PosiBand closed entry design; see page 1 for details. Connector Saver: Male to female, or male to male. **Contact Retention:** 9 lbs. [40 N]. **Connector Housing** (Shells): Male connector housings may be dimpled for EMI/ESD ground paths.

Polarization:

Trapezoidally-shaped connector housings.

Mechanical Operations:

housings. 1,000 operations, minimum, per IEC 60512-5.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: Initial Contact Resistance:	7.5 amperes, nominal. 0.008 ohms, maximum.
Proof Voltage:	1,000 V r.m.s.
Insulator Resistance:	5 G ohms.
Clearance and Creepage Distance:	0.039 inch [1.0 mm], minimum.
Working Voltage:	300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range:

-55°C to +125°C.

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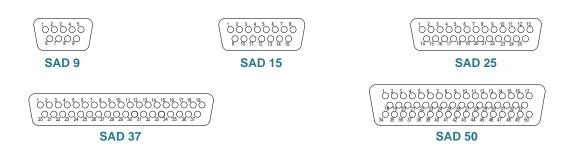
SAD SERIES MILITARY / SPACE FLIGHT QUALITY STANDARD DENSITY CONNECTOR SAVER

High Performance D-sub

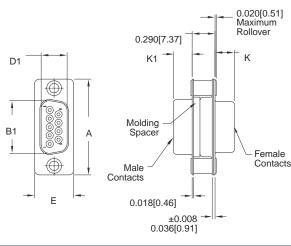
SAD SERIES SIZE 20 CONTACT CONNECTOR SAVER

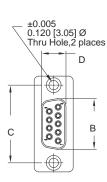
CONTACT VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE



STANDARD CONNECTOR HOUSING (SHELLS) ASSEMBLY DIMENSIONS SIZE 20 CONTACTS



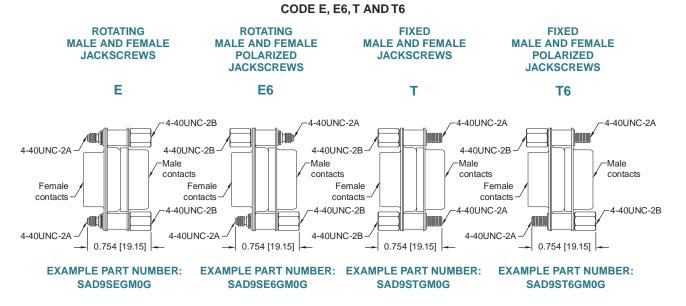


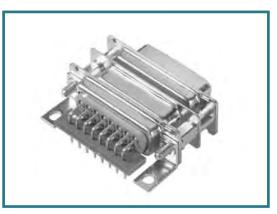
TYPICAL PART NUMBER: SAD9S0GM0G

CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B <u>±0.005</u> [0.13]	B1 <u>±0.005</u> [0.13]	C <u>±0.005</u> [0.13]	D <u>±0.005</u> [0.13]	D1 <u>±0.005</u> [0.13]	E <u>±0.015</u> [0.38]	K <u>±0.005</u> [0.13]	K1 <u>±0.005</u> [0.13]
9 M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.233</u> [5.92]
9 S	<u>1.213</u> [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
15 M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	<u>1.312</u> [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.233</u> [5.92]
15 S	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		<u>1.312</u> [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
25 M	<u>2.088</u> [53.04]		<u>1.534</u> [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.230</u> [5.84]
25 S	<u>2.088</u> [53.04]	<u>1.511</u> [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
37 M	<u>2.729</u> [69.32]		<u>2.182</u> [55.42]	<u>2.500</u> [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.230</u> [5.84]
37 S	<u>2.729</u> [69.32]	<u>2.159</u> [54.84]		<u>2.500</u> [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
50 M	<u>2.635</u> [66.93]		<u>2.079</u> [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]		
50 S	<u>2.635</u> [66.93]	<u>2.064</u> [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	<u>0.243</u> [6.17]	

63 DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

 High
 SAD SERIES
 Image: Comparison of the second secon





SAD15S0GM0G connector saver mated to SND15S5R70T2G connector.

DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE. 64

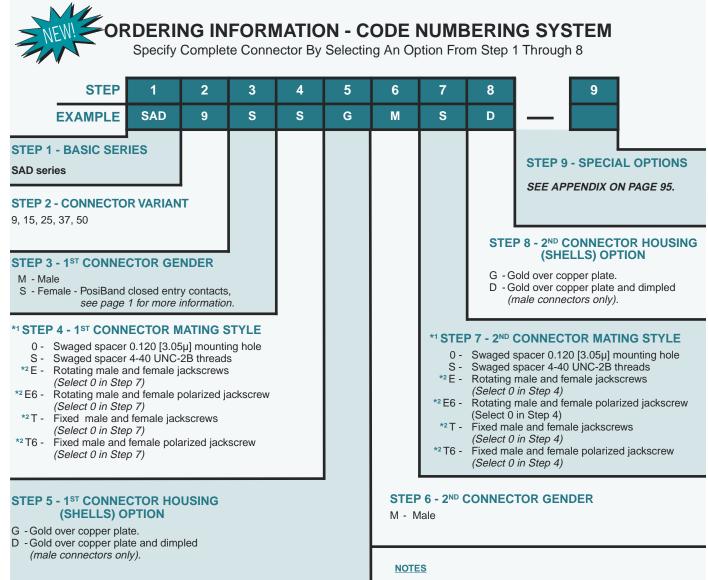


SAD SERIES

MILITARY / SPACE FLIGHT QUALITY

STANDARD DENSITY CONNECTOR SAVER

High Performance D-sub



*1 Connector mating style for both connectors must be the same if 0 or S is used. If E or E6 is used in either Step 4 or 8 the other step must be 0.

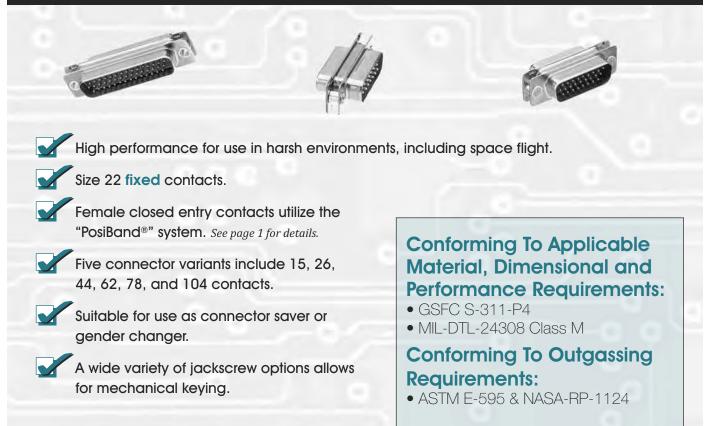
*2 For hardware information, see page 64.

Do you need 2-D drawings or 3-D models? See page 18 for more information!

65 DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

SADD SERIES Performance **MILITARY / SPACE FLIGHT QUALITY** HIGH DENSITY CONNECTOR SAVER





н Ε Ν Α L С Α **R** A S S Т н E R

MATERIALS AND FINISHES:

High

D-sub

Connector Insulator:	Polyester glass-filled per ASTM-D-5927, UL 94V-0, ASTM E-595, NASA-RP-1124.
Contacts:	Precision machined copper alloy. 0.000050 inch [1.27 microns] gold over copper plate. Other finishes are avail- able; see page 95.
Connector Housing	
(Shells), Spacers and Jackscrew Systems:	Brass with 0.000050 inch [1.27 microns] gold over copper plate.
MECHANICAL CHARA	ACTERISTICS:
Size 20 Fixed:	Male contact - 0.030 inch [0.76 mm] mating diameter. Female contact - Posi-

	mating diameter. Female contact - Posi- Band closed entry design; <i>see page 1 for</i> <i>details</i> .
Connector Saver:	Male to female (or male to male, Size 78 only).
Contact Retention:	9 lbs. [40 N].

Connector	Housing
(Shells):	

Pol	ari	iza	tic	n	•
1 01	a	ıza	uc	,,,,	•

Male connector housings may be dimpled for EMI/ESD ground paths. Trapezoidally-shaped connector housings.

Mechanical Operations: 1,000 operations, minimum, per IEC 60512-5.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: Initial Contact Resistance:	5 amperes, nominal. 0.008 ohms, maximum.
Proof Voltage:	1,000 V r.m.s.
Insulator Resistance:	5 G ohms.
Clearance and	
Creepage Distance:	0.039 inch [1.0 mm], minimum
Working Voltage:	300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range:

-55°C to +125°C.

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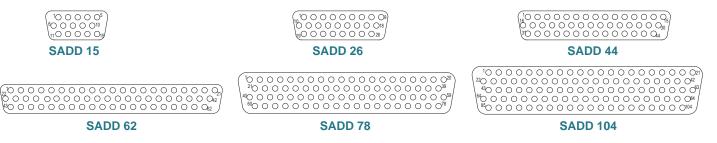
SADD SERIES **MILITARY / SPACE FLIGHT QUALITY** HIGH DENSITY CONNECTOR SAVER

High Performance **D**-sub

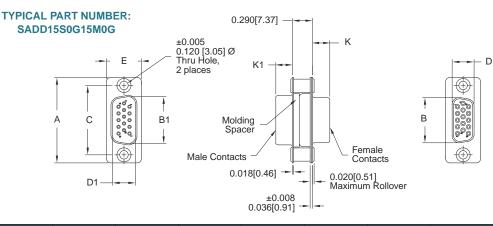
SADD SERIES SIZE 22 CONTACT CONNECTOR SAVER

CONTACT VARIANTS

FACE VIEW OF MALE OR USE MIRROR IMAGE FOR FEMALE



STANDARD CONNECTOR HOUSING (SHELLS) ASSEMBLY DIMENSIONS **SIZE 22 CONTACTS**



CONNECTOR VARIANT SIZES	A <u>±0.015</u> [0.38]	B <u>±0.005</u> [0.13]	B1 <u>±0.005</u> [0.13]	C <u>±0.005</u> [0.13]	D <u>±0.005</u> [0.13]	D1 <u>±0.005</u> [0.13]	E <u>±0.015</u> [0.38]	K <u>±0.005</u> [0.13]	K1 <u>±0.005</u> [0.13]
15 M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.233</u> [5.92]
15 S	<u>1.213</u> [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
26 M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	<u>1.312</u> [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.233</u> [5.92]
26 S	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		<u>1.312</u> [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
44 M	<u>2.088</u> [53.04]		<u>1.534</u> [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.230</u> [5.84]
44 S	<u>2.088</u> [53.04]	<u>1.511</u> [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
62 M	<u>2.729</u> [69.32]		<u>2.182</u> [55.42]	<u>2.500</u> [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]		<u>0.230</u> [5.84]
62 S	<u>2.729</u> [69.32]	<u>2.159</u> [54.84]		<u>2.500</u> [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.243</u> [6.17]	
78 M	<u>2.635</u> [66.93]		<u>2.079</u> [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]		
78 S	<u>2.635</u> [66.93]	<u>2.064</u> [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	<u>0.243</u> [6.17]	
104 M	<u>2.729</u> [69.32]		<u>2.212</u> [56.18]	<u>2.500</u> [63.50]		<u>0.503</u> [12.78]	<u>0.668</u> [16.97]		<u>0.230</u> [5.84]
104 S	<u>2.729</u> [69.32]	<u>2.189</u> [55.60]		<u>2.500</u> [63.50]	<u>0.485</u> [12.32]		<u>0.668</u> [16.97]	<u>0.243</u> [6.17]	

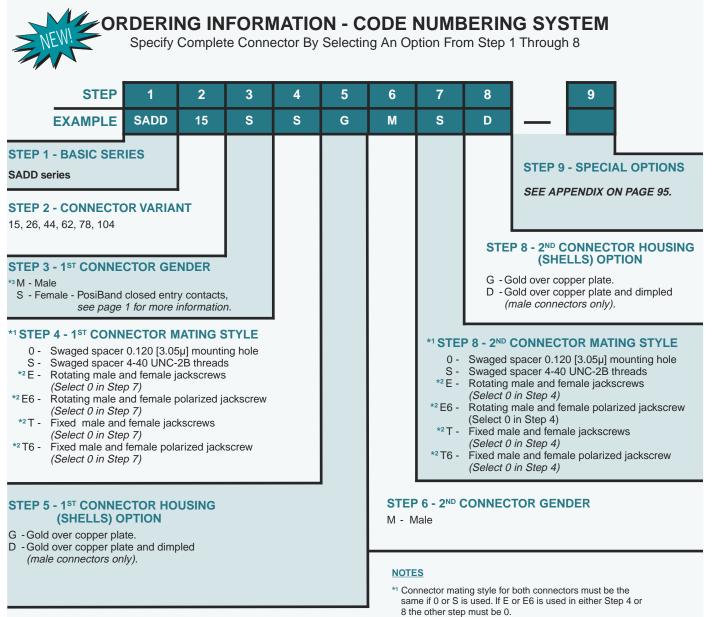
430

High Performance D-sub

SADD SERIES MILITARY / SPACE FLIGHT QUALITY

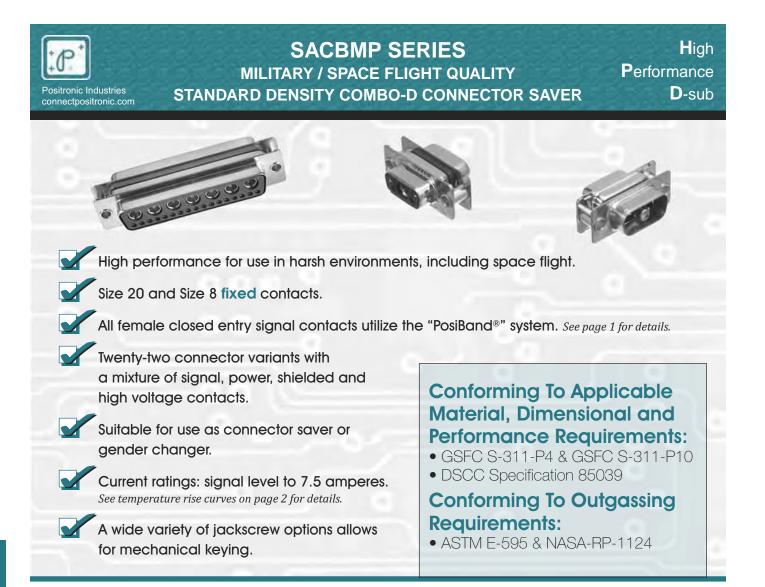
HIGH DENSITY CONNECTOR SAVER

Positronic Industries connectpositronic.com



- *2 For hardware information, see page 64.
- *3 Male option available only on connector variant 78.

Do you need 2-D drawings or 3-D models? See page 18 for more information!



н R A E. Α ER S T C S Т С н Ν С Α L С С

MATERIALS AND FINISHES:

SACBMP SERIES

Glass-filled polyester per ASTM-D-5927, UL 94-V0, ASTM E-595, NASA-RP- 1124, blue color.	Size 20 Fixed:	Male conta mating dia PosiBand c 1 for details
	Size 8 Fixed	Male - 0.
Precision machined copper alloy. 0.000050 inch [1.27 microns] gold over copper plate. Other finishes are available; see page 95.		diameter. F Surface A contact des
Precision machined high conductivity		retention m
copper alloy. 0.000050 inch [1.27 mi- crons] gold over copper plate. Other fin-	Connector Saver:	Male to fem for available
ishes are available; see page 95.	Contact Retention:	9 lbs. [40 N
	Connector Housing	
Brass with 0.000050 inch [1.27 microns] gold over copper plate.	(Shells):	Male conne for EMI/ES
	Polarization:	Trapezoida housings.
	Mechanical Operations:	1,000 ope
	 UL 94-V0, ASTM E-595, NASA-RP- 1124, blue color. Precision machined copper alloy. 0.000050 inch [1.27 microns] gold over copper plate. Other finishes are available; see page 95. Precision machined high conductivity copper alloy. 0.000050 inch [1.27 mi- crons] gold over copper plate. Other fin- ishes are available; see page 95. Brass with 0.000050 inch [1.27 microns] 	UL 94-V0, ASTM E-595, NASA-RP- 1124, blue color. Precision machined copper alloy. 0.000050 inch [1.27 microns] gold over copper plate. Other finishes are available; see page 95. Precision machined high conductivity copper alloy. 0.000050 inch [1.27 mi- crons] gold over copper plate. Other fin- ishes are available; see page 95. Brass with 0.000050 inch [1.27 microns] gold over copper plate. Brass with 0.000050 inch [1.27 microns] gold over copper

MECHANICAL CHARACTERISTICS:

Size 20 Fixed:	Male contact - 0.040 inch [1.02 mm] mating diameter. Female contact - PosiBand closed entry design; <i>see page</i> <i>1 for details.</i>
Size 8 Fixed:	Male - 0.142 inch [3.61mm] mating diameter. Female contact features Large Surface Area (L.S.A.) closed entry contact design utilizing BeCu mechanical retention member. Closed crimp barrel.
Connector Saver:	Male to female, male to male see page 72 for available variants.
Contact Retention:	9 lbs. [40 N].
Connector Housing	
(Shells):	Male connector housings may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally-shaped connector housings.
Mechanical Operations:	1,000 operations, minimum, per IEC 60512-5.
	continued on next page

SACBMP SERIES **MILITARY / SPACE FLIGHT QUALITY**

STANDARD DENSITY COMBO-D CONNECTOR SAVER



TECHNICAL CHARACTERISTICS, continued

continued from previous page. . . .

ELECTRICAL CHARACTERISTICS:

SIZE 20 CONTACTS **Contact Current Rating:** Initial Contact Resistance: **Proof Voltage:**

SIZE 8 CONTACTS Contact Current Rating: Initial Contact Resistance: Proof Voltage:

40 amperes, nominal 0.008 ohms maximum.

7.5 amperes, nominal

1000 V r.m.s.

1000 V r.m.s.

0.008 ohms maximum.

CONNECTOR Insulation Resistance: **Clearance and Creepage Distance:** Working Voltage:

5 G ohms.

0.039 inch [1.0 mm], minimum. 300 V r.m.s.

CLIMATIC CHARACTERISTICS:

Temperature Range:

-55°C to +125°C.

<u>Visit our</u> website for the latest catalog updates and supplements at http://www.connectpositronic.com/products/62/HighPerformanceD-subminiature/catalogs/

SACBMP SERIES SIZE 20 AND SIZE 8 CONTACT CONNECTOR SAVER

CONTACT VARIANTS

- SHELL SIZE 1 -SHELL SIZE 2 · 00 11W1 5W1 3W3 7W2 SHELL SIZE 3 · 00000 00000 0000 OOOO21W1 5W5 9W4 13W3 17W2 SHELL SIZE 4 -0000000 0000 00000 13W6 8W8 17W5 0000000000 0000000000 21WA4 25W3 27W2 SHELL SIZE 5 <u>iood</u>dddoog ର୍ପ୍ରାର୍ପ୍ରପ୍ରପ୍ରପ୍ରପ୍ରପ୍ର 24W7 36W4 43W2 47W1 SHELL SIZE 6 -0,0,0 46W4 Note: For high density 8W2, 19W1, 15W4 and 45W2 variants contact Technical Sales for availability.

FACE VIEW OF MALE OR REAR VIEW OF FEMALE

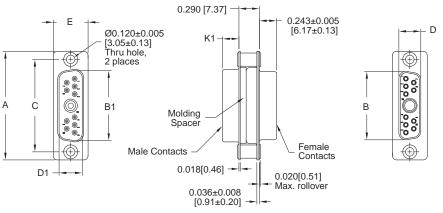
SACBMP SERIES

MILITARY / SPACE FLIGHT QUALITY STANDARD DENSITY COMBO-D CONNECTOR SAVER

Positronic Industries connectpositronic.com

High Performance D-sub

STANDARD CONNECTOR HOUSING (SHELLS) ASSEMBLY DIMENSIONS SIZE 20 AND SIZE 8 CONTACTS



NOTE: Code S = Swaged spacer with 4-40 UNC-2B threads.

TYPICAL PART NUMBER: SACBMP11W1S0GM0G

SHELL SIZES	CONNECTOR VARIANT	A <u>±0.015</u> [0.38]	B <u>±0.005</u> [0.13]	B1 <u>±0.005</u> [0.13]	C <u>±0.005</u> [0.13]	D <u>±0.005</u> [0.13]	D1 <u>±0.005</u> [0.13]	E <u>±0.015</u> [0.38]	K1 <u>±0.005</u> [0.13]
1	5W1	<u>1.213</u> [30.81]	<u>0.643</u> [16.33]	<u>0.666</u> [16.92]	<u>0.984</u> [24.99]	<u>0.311</u> [7.90]	<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.233</u> [5.92]
2	3W3, 7W2, 11W1	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]	<u>0.994</u> [25.25]	<u>1.312</u> [33.32]	<u>0.311</u> [7.90]	<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.233</u> [5.92]
3	5W5, 9W4, 13W3, 17W2, 21W1	<u>2.088</u> [53.04]	<u>1.511</u> [38.38]	<u>1.534</u> [38.96]	<u>1.852</u> [47.04]	<u>0.311</u> [7.90]	<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.230</u> [5.84]
4	8W8, 13W6, 17W5, 21WA4, 25W3, 27W2	<u>2.729</u> [69.32]	<u>2.159</u> [54.84]	<u>2.182</u> [55.42]	<u>2.500</u> [63.50]	<u>0.311</u> [7.90]	<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.230</u> [5.84]
5	24W7, 36W4, 43W2, 47W1	<u>2.635</u> [66.93]	<u>2.064</u> [52.43]	<u>2.079</u> [52.81]	<u>2.406</u> [61.11]	<u>0.423</u> [10.74]	<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	<u>0.230</u> [5.84]
6	46W4	<u>2.729</u> [69.32]	<u>2.189</u> [55.60]	<u>2.212</u> [56.18]	<u>2.500</u> [63.50]	<u>0.485</u> [12.32]	<u>0.503</u> [12.78]	<u>0.668</u> [16.97]	<u>0.230</u> [5.84]

High Performance D-subSACBMP SERIES MILITARY / SPACE FLIGHT QUALITY STANDARD DENSITY COMBO-D CONNECTOR SAVERImage: Destronic Industries connectpositronic.comImage: Destrone construction of the c											
STEP	1	2	3	4	5	6	7	8	9		
EXAMPLE	SACBMP	11W1	S	S	G	М	S	D -	_		
STEP 1 - BASIC SE SACBMP series STEP 2 - CONNECTO Shell Size 1 5W1 Shell Size 2 3W3, 7W2, 11W1 Shell Size 3		т						STEP 8	TEP 9 - SPECIAL EEE APPENDIX ON I - 2 ND CONNECTO (SHELLS) OPTIC	PAGE 95.	
5W5, 9W4, 13W3, 17W2 Shell Size 4 8W8, 13W6, 17W5, 21W Shell Size 5 24W7, 36W4, 43W2, 47' Shell Size 6 46W4 Note: For high density 15W4 and 45W2 varia Technical Sales for a STEP 3 - 1 ST CONNI *1 M -Male S - Female - PosiBand		 G - Gold over copper plate. D - Gold over copper plate and dir (male connectors only). *2 STEP 8 - 2ND CONNECTOR MATING S 0 - Swaged spacer 0.120 [3.05µ] mounting S - Swaged spacer 4-40 UNC-2B threads *3 E - Rotating male and female jackscrews (Select 0 in Step 4) *3 E6 - Rotating male and female polarized jac (Select 0 in Step 4) *3 T - Fixed male and female jackscrews (Select 0 in Step 4) *3 T6 - Fixed male and female polarized jackscrews (Select 0 in Step 4) *3 T6 - Fixed male and female polarized jackscrews (Select 0 in Step 4) 				G STYLE nting hole ads ws d jackscrew					
 see page *2 STEP 4 - 1ST CON 0 - Swaged space S - Swaged space *3 E - Rotating male a (Select 0 in Ste *3 E - Rotating male a (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste *3 T - Fixed male and (Select 0 in Ste 	g hole			M - M NOTE *1 Mal 7W: *2 Cor use be	fale e option in 3 2, 11W1,17 nnector mat ed. If E, E6, 0.	W2, 21W1, 21W ing style for both	only on connector varia A4, 27W2, 24W7, 46W4 connectors must be the n either Step 4 or 8 the e	4. e same if 0 or S is			

- Gold over copper plate and dimplec (male connectors only).
 - Do you need 2-D drawings or 3-D models? See page 18 for more information!

Ficellence Positronic HIGH RELIABILITY Products

OWER SUBMINIAT FEATURES: High current density Energy saving low contact resistance • Hot swap capability FEATURES: Four performance levels available for AC/DC operation in a single connector Signal contacts for hardware management best cost/performance ratio: professional, industrial, military and space-flight quality Blind mating Sequential mating Large surface area contact mating system Options include high voltage, coax, thermocouple and air coupling contacts; Wide variety of accessories Customer-specified contact arrangements environmentally sealed and dual port connector packages including mixed density Modular tooling which produces Broad selection of accessories a single piece connector insert Size 20 and 22 contacts suitable for Contact Sizes: 0, 8, 12, 16, 20, 22 and 24 use in carrying power 8, 16, 20 and 22 Current Ratings: Crimp and fixed cable connector, straight solder, right angle (90°) To 100 amperes Contact Sizes: • IP65, IP67 Terminations: solder, straight compliant press-in and right angle (90°) compliant Crimp, wire solder, straight solder, right angle (90°) solder, straight Current Ratings: compliant press-in and right angle (90°) compliant press-in Terminations: Configurations: Multiple variants in both standard and high densities, seven connector Multiple variants in a variety of package sizes PICMG 2.11, PICMG 3.0, VITA 41, DSCC, GSFC S-311-P-4, Qualifications: MIL-DTL-24308, GSFC S-311-P-4, GSFC S-311-P-10, Configurations: Compliance: GSFC S-311-P-10 IRCULAR C FEATURES:

 Non-corrodible / lightweight composite FEATURES: Two performance levels available: construction industrial quality and military quality EMI/RFI shielded versions A wide variety of accessories Thermocouple contacts Environmentally sealed versions Broad selection of contact arrangement Rear insertion/ front release of removable and package sizes Connector coding device (keying) options contacts Two level sequential mating Overmolding available on full assemblies Contact Sizes: 16, 20 and 22 Current Ratings: To 13 amperes nominal Terminations: 12, 16, 20 and 22 Crimp, wire solder, straight solder, right angle (90°) solder, and Contact Sizes: Crimp, wire solder, straight solder, and right angle (90°) solder To 25 amperes nominal straight compliant press-in Configurations: Current Ratings: Multiple variants in both standard and high densities, Multiple variants in four package sizes Terminations: Qualifications: Environmental protection to IP67 Configurations: MIL-DTL-28748, AS39029, CCITT V.35 Qualifications: FEATURES: С Shorten the supply chain and reduce additional costs and delays by "cablizing" your Positronic connector selection FEATURES: Intended for use as an electrical feedthrough in high vacuum applications Overmolding available Shielded and environmentally sealed Helium leakage rate at ambient temperature: < 5x10-9 mbar.l/s under versions available Power cables and access boxes which a vacuum 1.5x10⁻² mbar meet the SAE J2496 specification Signal, power, coax and high voltage versions available Connectors can be mounted on flange Design assemblies in accordance with customer specifications. Contact Sizes: assembly per customer specification Prepare wire harness connector configuration and performance specifications. 8, 12, 16, 20 and 22 Current Ratings: To 40 amperes nominal Design each system in accordance with applicable customer, domestic, Terminations: Feedthrough is standard; flying leads and board mount available Configurations:

and international standards. Define and conduct performance and verification testing.

omec

For more information, visit www.connectpositronic.com or call your nearest Positronic sales office listed on the back of this catalog.

Compliance:

upon request

AL 51

See D-subminiature and circular configurations above Space-D32

2010-011



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