



- High performance for use in harsh environments, including space flight.
- Size 22 **fixed** contacts.
- Female closed entry contacts utilize the “PosiBand®” system. See page 1 for details.
- Five connector variants include 15, 26, 44, 62, 78, and 104 contacts.
- Suitable for use as connector saver or gender changer.
- A wide variety of jackscrew options allows for mechanical keying.

**Conforming To Applicable Material, Dimensional and Performance Requirements:**

- GSFC S-311-P4
- MIL-DTL-24308 Class M

**Conforming To Outgassing Requirements:**

- ASTM E-595 & NASA-RP-1124

## TECHNICAL CHARACTERISTICS

### MATERIALS AND FINISHES:

<b>Connector Insulator:</b>	Polyester glass-filled per ASTM-D-5927, UL 94V-0, ASTM E-595, NASA-RP-1124.
<b>Contacts:</b>	Precision machined copper alloy. 0.000050 inch [1.27 microns] gold over copper plate. Other finishes are available; see page 95.
<b>Connector Housing (Shells), Spacers and Jackscrew Systems:</b>	Brass with 0.000050 inch [1.27 microns] gold over copper plate.

### MECHANICAL CHARACTERISTICS:

<b>Size 20 Fixed:</b>	Male contact - 0.030 inch [0.76 mm] mating diameter. Female contact - PosiBand closed entry design; see page 1 for details.
<b>Connector Saver:</b>	Male to female (or male to male, Size 78 only).
<b>Contact Retention:</b>	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.

### ELECTRICAL CHARACTERISTICS:

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

### CLIMATIC CHARACTERISTICS:

<b>Temperature Range:</b>	-55°C to +125°C.
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# SADD SERIES

## MILITARY / SPACE FLIGHT QUALITY

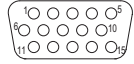
### HIGH DENSITY CONNECTOR SAVER

High  
Performance  
D-sub

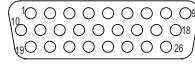
## SADD SERIES SIZE 22 CONTACT CONNECTOR SAVER

### CONTACT VARIANTS

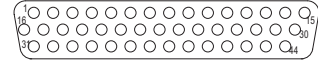
FACE VIEW OF MALE OR USE MIRROR IMAGE FOR FEMALE



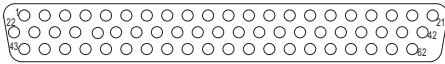
SADD 15



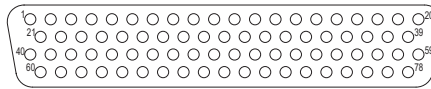
SADD 26



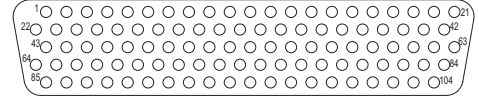
SADD 44



SADD 62



SADD 78

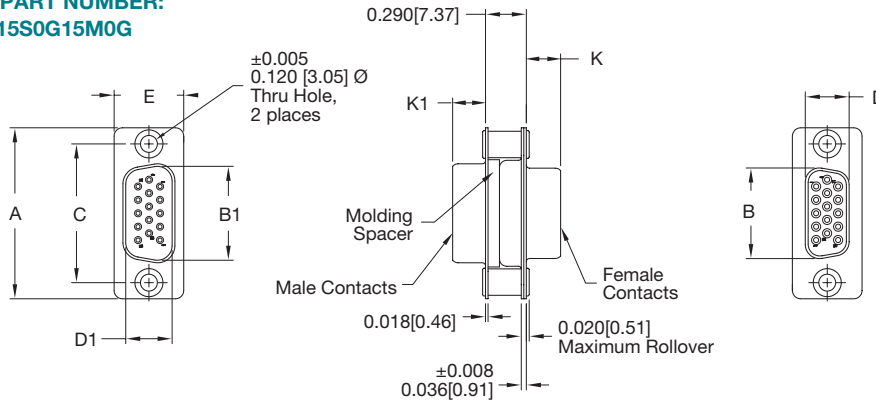


SADD 104

## STANDARD CONNECTOR HOUSING (SHELLS) ASSEMBLY DIMENSIONS

### SIZE 22 CONTACTS

TYPICAL PART NUMBER:  
SADD15S0G15M0G



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



## ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 8

STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	SADD	15	S	S	G	M	S	D	—
<b>STEP 1 - BASIC SERIES</b> SADD series									<b>STEP 9 - SPECIAL OPTIONS</b> SEE APPENDIX ON PAGE 95.
<b>STEP 2 - CONNECTOR VARIANT</b> 15, 26, 44, 62, 78, 104									<b>STEP 8 - 2<sup>ND</sup> CONNECTOR HOUSING (SHELLS) OPTION</b> G - Gold over copper plate. D - Gold over copper plate and dimpled (male connectors only).
<b>STEP 3 - 1<sup>ST</sup> CONNECTOR GENDER</b> *3 M - Male S - Female - PosiBand closed entry contacts, see page 1 for more information.									<b>*1 STEP 7 - 2<sup>ND</sup> CONNECTOR MATING STYLE</b> 0 - Swaged spacer 0.120 [3.05µ] mounting hole S - Swaged spacer 4-40 UNC-2B threads *2 E - Rotating male and female jackscrews (Select 0 in Step 4) *2 E6 - Rotating male and female polarized jackscrew (Select 0 in Step 4) *2 T - Fixed male and female jackscrews (Select 0 in Step 4) *2 T6 - Fixed male and female polarized jackscrew (Select 0 in Step 4)
<b>*1 STEP 4 - 1<sup>ST</sup> CONNECTOR MATING STYLE</b> 0 - Swaged spacer 0.120 [3.05µ] mounting hole S - Swaged spacer 4-40 UNC-2B threads *2 E - Rotating male and female jackscrews (Select 0 in Step 7) *2 E6 - Rotating male and female polarized jackscrew (Select 0 in Step 7) *2 T - Fixed male and female jackscrews (Select 0 in Step 7) *2 T6 - Fixed male and female polarized jackscrew (Select 0 in Step 7)									<b>STEP 6 - 2<sup>ND</sup> CONNECTOR GENDER</b> M - Male
<b>STEP 5 - 1<sup>ST</sup> CONNECTOR HOUSING (SHELLS) OPTION</b> G - Gold over copper plate. D - Gold over copper plate and dimpled (male connectors only).									<b>NOTES</b> *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. *3 Male option available only on connector variant 78.

SADD SERIES