

SGM SERIES INDUSTRIAL / MILITARY QUALITY FIXED STRAIGHT PCB MOUNT / SOLDER CUP

High Density Rectangular



Thermocouple contact options available.

A wide variety of options and accessories.

MATERIALS AND FINISHES:

Connector Insert:	Glass filled DAP per ASTM-D-5948 type SDG-F. Grey color is standard, black or green available.	
Fixed Contacts:	Precision machined copper alloy. 0.000015 inch [0.38 μ] gold over nickel. Other finishes available upon request, see page 41 for details.	
Polarizing Guides:	Copper alloy with nickel plate or passivated stainless steel.	
Jackscrew System:	Passivated stainless steel.	
Connector Housing (Shells):	Aluminum with yellow anodize or black anodize.	
Backshell:	Aluminum with yellow or black anodize.	

Quick Disconnect	
Locking Device:	

Actuation lock lever and lock tab, copper alloy with nickel plate.

MECHANICAL CHARACTERISTICS:

Fixed Contacts:	Size 22, male contact 0.030 inch [0.76 mm] mating diameter. Female contact - PosiBand closed entry design, see page 1 for details.
Contact Retention in Connector Insert:	6 lbs. [26.5N] minimum.
Contact Termination:	Solder cup contacts - 0.037 inch [0.94 mm] internal hole diameter for 22 AWG [0.3 mm²] wire maximum.
	Straight printed board mount - 0.025 inch [0.64 mm] termination diameter.

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TECHNICAL CHARACTERISTICS, continued

continued from previous page. . . .

MECHANICAL CHARACTERISTICS, continued:

	Wire post - 0.025 inch [0.64 mm] square.	
	Compliant press-in termination.	
Locking Systems:	Friction, quick disconnect locking device and jackscrews.	
Polarization:	Polarized guides and jackscrew system.	
Coding (Keying) Device:	Pin and slot system; male and female guide system.	
Mechanical Operations:	1000 operations per IEC 60512-5.	
Jackscrews:	Standard threads, 2-56 UNC on all sizes, Metric threads, M2X0.4 and M3X0.5 available.	

ELECTRICAL CHARACTERISTICS:

Contact Current Rating, Tested per UL 1977:

13 amperes, 2 contacts energized.

10 amperes, 6 contacts energized.

6 amperes, 26 contacts energized.

5 amperes, 104 contacts energized *See temperature rise curves on page 2 for details.*

Initial Contact Resistance:	0.004 ohms, maximum.	
Flash over Voltage:	2200 V.AC (rms)	
Test Voltage:	1000 V.AC (rms)	
Insulation Resistance:	5 G ohms, minimum.	
Clearance and Creepage		
Distance:	0.028 inch [0.71 mm], minimum.	
Working Temperature:	-55°C to 135°C	
Working Voltage:	250 V.AC (rms)	

THERMOCOUPLE CONTACTS:

Straight printed circuit board mount contacts are available, please contact Technical Sales for details.

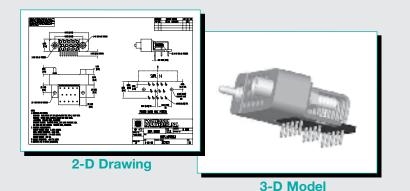
Right angle (90°) printed circuit board mount contacts are available in SMPL series, see page 24 for details.

Size 22 removable crimp contacts are available in SGMC series, see page 12 for details.

Visit our web site for the latest catalog updates and supplements at https://www.connectpositronic.com/catalogs/

Do you need 2-D drawings or 3-D models?

Once you have made a connector selection, contact Technical Sales if you would like a 2-D drawing or 3-D model. If we do not have your specific part number on file, we can create one for you. Or, please visit www.connectpositronic.com and use the search function.





SGM SERIES

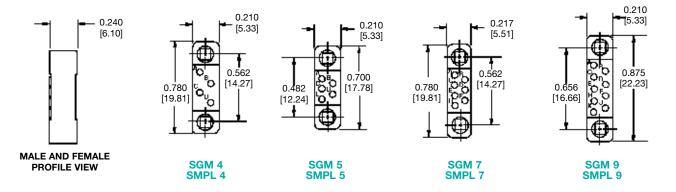
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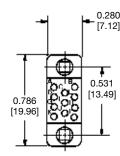
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CONNECTOR INSERT DIMENSIONS FOR SGM AND SMPL SERIES

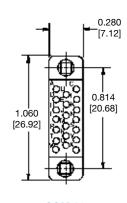
MATING FACE VIEW OF FEMALE OR REAR FACE VIEW OF MALE

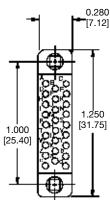




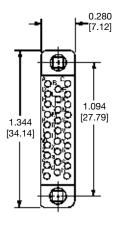
0.280 (7.12) 0.625 (15.88) 0.625 (15.88) 0.625 0.625 (15.88) 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625 0.625

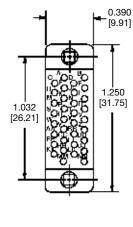
> SGM 14 SMPL 14





SGM 11 SMPL 11

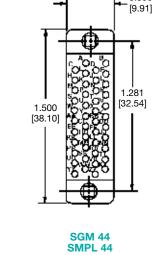




SGM 34

SMPL 34

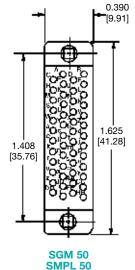
SGM 29 SMPL 29



SGM 20 SMPL 20

0.390

SGM 26 SMPL 26



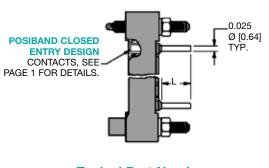
CONTACT HOLE PATTERNS:

DIMENSIONS ARE IN INCHES [MILLIMETERS]. 17 ALL DIMENSIONS ARE SUBJECT TO CHANGE. For SGM series contact hole patterns, refer to page 21 in SGM series. For SMPL series contact hole patterns, refer to page 26 in SMPL series.





FEMALE



Typical Part Number: SGM26SDS3T0000

CONTACT CODE	L
DS3	<u>0.093</u> [2.36]
DS4	<u>0.125</u> [3.18]
DS5	<u>0.156</u> [3.96]
DS6	<u>0.187</u> [4.75]

For straight solder contacts, specify contact code in Step 4 of ordering information.

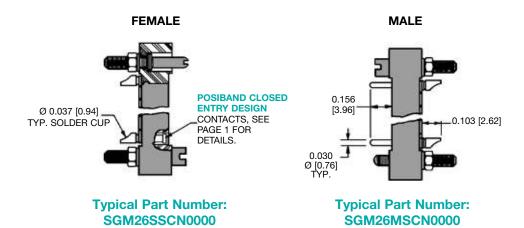


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SOLDER CUP TERMINATION CODE SC

For solder cup contacts, specify contact code "SC" in Step 4 of ordering information.



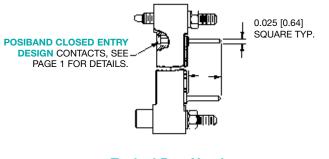
SGM SERIES **INDUSTRIAL / MILITARY QUALITY**

FIXED STRAIGHT PCB MOUNT / SOLDER CUP

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WRAP POST TERMINATION CODE WW1 OR CODE WW2

FEMALE



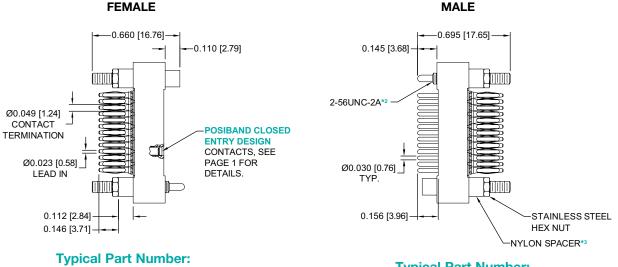
Typical Part Number: SGM26SWW1T0000

CONTACT CODE	L
WW1	<u>0.225</u> [5.72]
WW2	<u>0.355</u> [9.02]

For wrap post contacts, specify contact code in Step 4 of ordering information.

COMPLIANT PRESS-IN PRINTED BOARD MOUNT TERMINATION* **CODE 98**

For compliant press-in contacts, specify contact code "98" in Step 4 of ordering information.



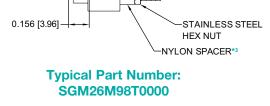
SGM26S98T0000

NOTES:

- *1 Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.
- *2 M2X0.4 metric thread available.
- *3 Stainless steel spacer available.

CONTACT HOLE PATTERNS:

For compliant press-in connector contact hole patterns, see page 21.



SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest 0.105 [2.66] Ø hole in printed board for connector mounting holes. NOTE: For suggested printed board recommended drill hole sizes, plating and finished hole sizes for compliant contact termination positions, see page 40. For compliant press-in connector installation tools, see page 39.



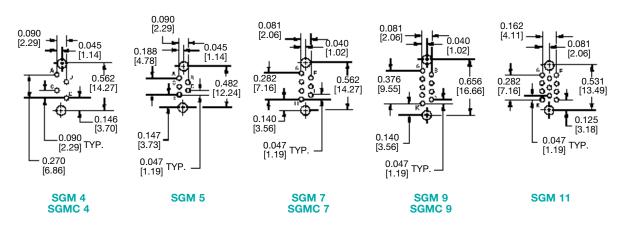
SGM SERIES

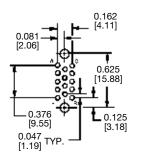
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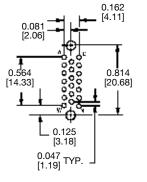
CONTACT HOLE POSITION DIMENSIONS AND PRINTED BOARD HOLE PATTERN FOR SGM AND SGMC SERIES

MATING FACE VIEW OF FEMALE OR REAR FACE VIEW OF MALE

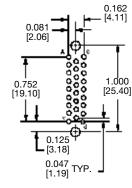


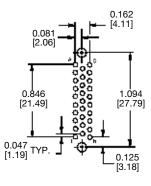


SGM 14 SGMC 14



SGM 20 SGMC 20

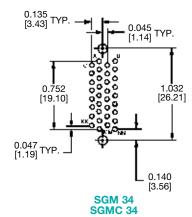


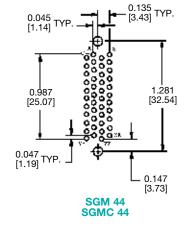


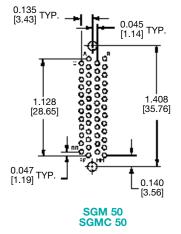
High Density

Rectangular

SGM 26 SGMC 26 SGM 29





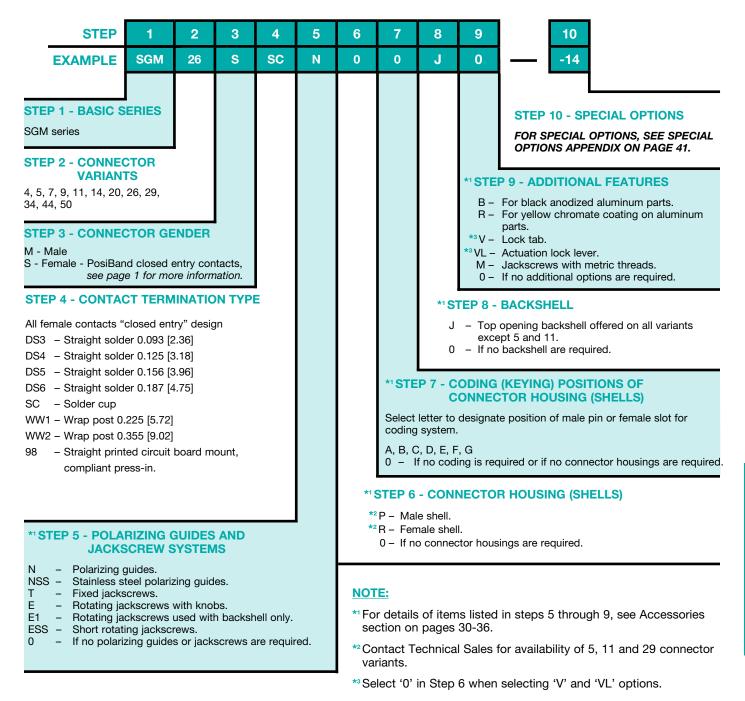


SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest 0.105 [2.66] Ø holes in printed board for connector mounting holes Suggest 0.040 [1.01] Ø holes in printed board for contact terminations FIXED STRAIGHT PCB MOUNT / SOLDER CUP

ORDERING INFORMATION - CODE NUMBERING SYSTEM

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



Do you need 2-D drawings or 3-D models?

See page 16 for more information!

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