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, except 75 connector variant, which use 6-32 UNC. 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.

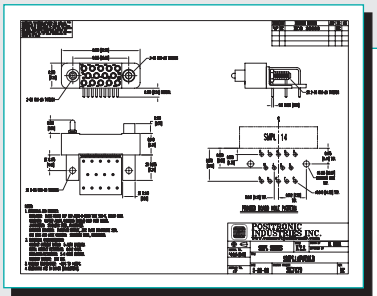
Right angle (90°) printed circuit board mount contacts are available in SMPL series, *see page 24 for details.*

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

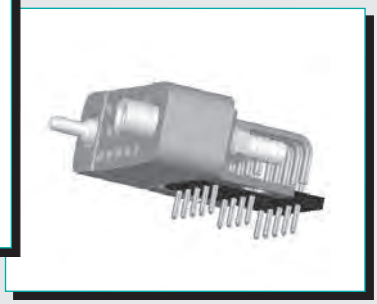
Visit our web site for the latest catalog updates and supplements at http://www.connectpositronic.com/products/54/HighDensityRectangular/catalogs

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.



2-D Drawing

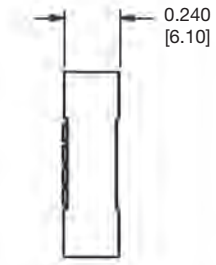


3-D Model

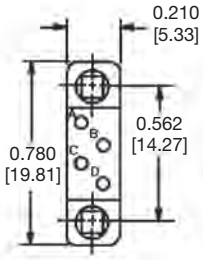
Downloaded from Arrow.com.

CONNECTOR INSERT DIMENSIONS FOR SGM AND SMPL SERIES

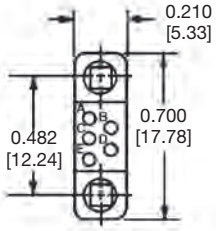
MATING FACE VIEW OF FEMALE OR REAR FACE VIEW OF MALE



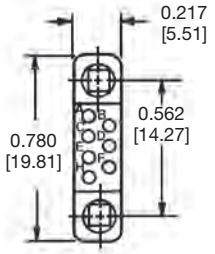
MALE AND FEMALE
PROFILE VIEW



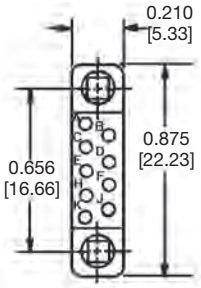
SGM 4
SMPL 4



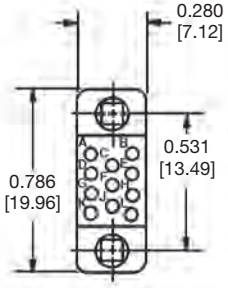
SGM 5
SMPL 5



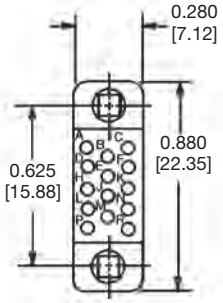
SGM 7
SMPL 7



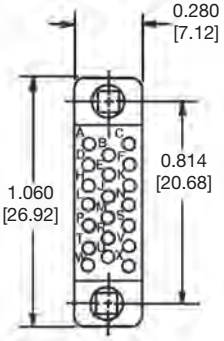
SGM 9
SMPL 9



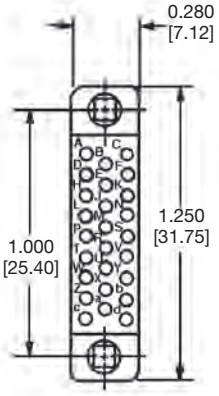
SGM 11
SMPL 11



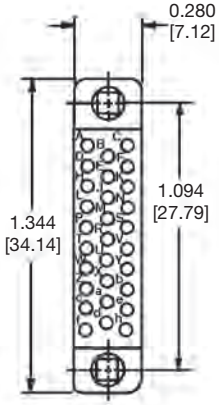
SGM 14
SMPL 14



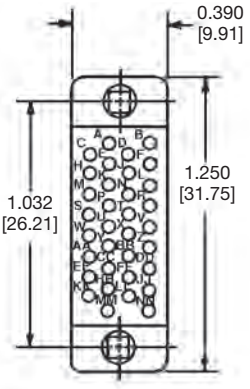
SGM 20
SMPL 20



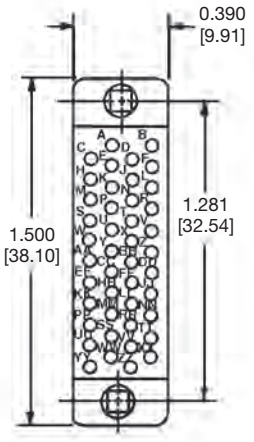
SGM 26
SMPL 26



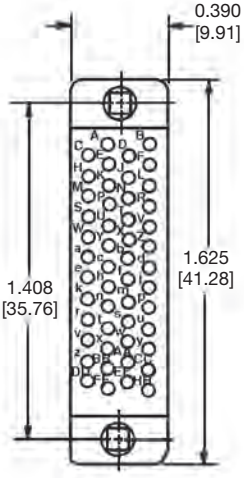
SGM 29
SMPL 29



SGM 34
SMPL 34



SGM 44
SMPL 44



SGM 50
SMPL 50

CONTACT HOLE PATTERNS:

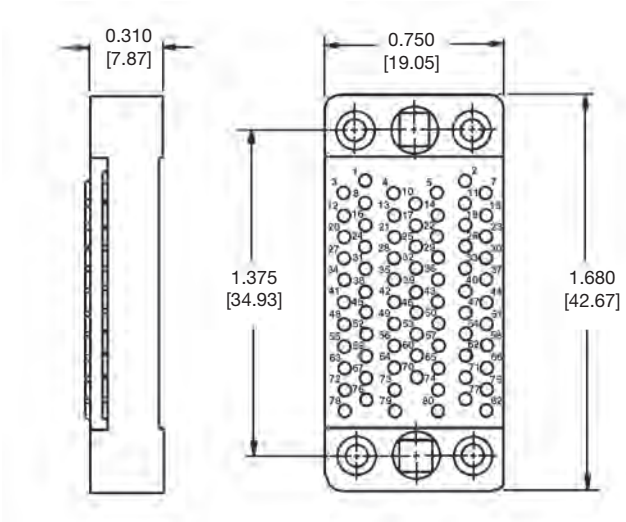
For SGM series contact hole patterns, refer to page 21 in SGM series.
For SMPL series contact hole patterns, refer to page 26 in SMPL series.

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

Downloaded from Arrow.com.

CONNECTOR INSERT DIMENSIONS
SGM 75 CONNECTOR

MATING FACE VIEW OF FEMALE OR REAR FACE VIEW OF MALE



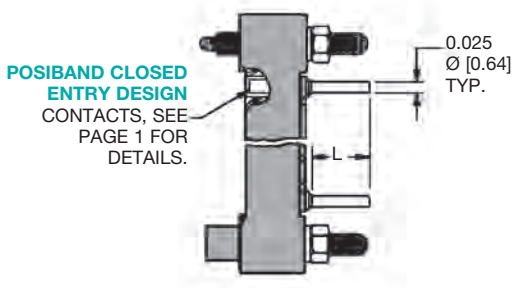
SGM 75

CONTACT HOLE PATTERNS:

For SGM 75 series contact hole patterns, refer to page 8 in SGMC series.

STRAIGHT SOLDER PRINTED BOARD MOUNT TERMINATION
CODE DS3, DS4, DS5 AND DS6

FEMALE



Typical Part Number:
SGM26SDS3T0000

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

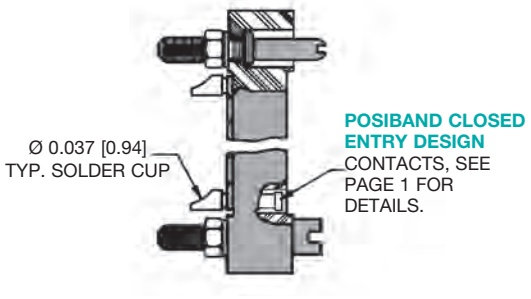
For straight solder contacts, specify contact code in Step 4 of ordering information.

Downloaded from Arrow.com.

SOLDER CUP TERMINATION
CODE SC

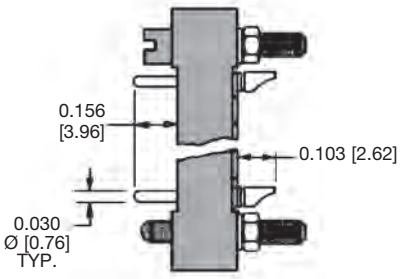
For solder cup contacts, specify contact code "SC" in Step 4 of ordering information.

FEMALE



Typical Part Number:
SGM26SSCN0000

MALE

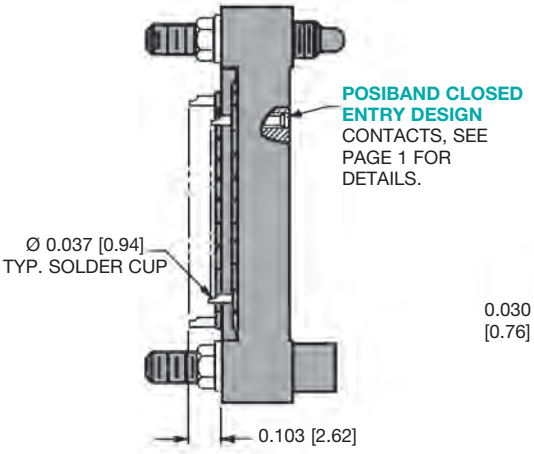


Typical Part Number:
SGM26MSCN0000

SGM 75 SOLDER CUP TERMINATION
CODE SC

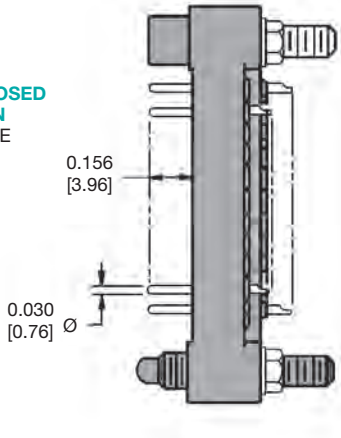
For solder cup contacts, specify contact code "SC" in Step 4 of ordering information.

FEMALE



Typical Part Number:
SGM75SSCT0000

MALE



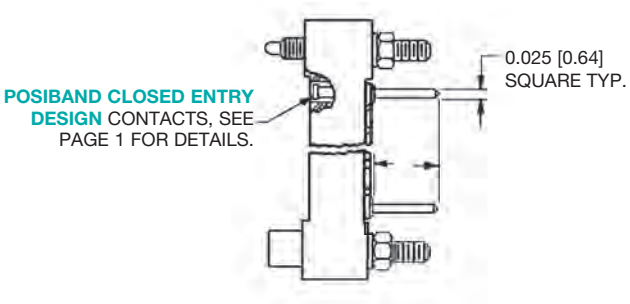
Typical Part Number:
SGM75MSCT0000

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

Downloaded from Arrow.com.

WRAP POST TERMINATION
CODE WW1 OR CODE WW2

FEMALE



CONTACT CODE	L
WW1	0.225 [5.72]
WW2	0.355 [9.02]

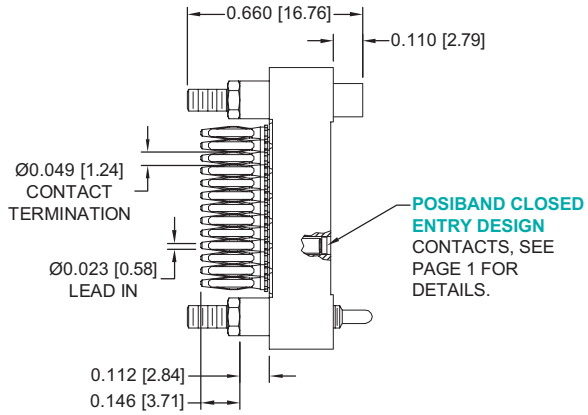
For wrap post contacts, specify contact code in Step 4 of ordering information.

Typical Part Number:
SGM26SWW1T0000

COMPLIANT PRESS-IN PRINTED BOARD MOUNT TERMINATION*1
CODE 98

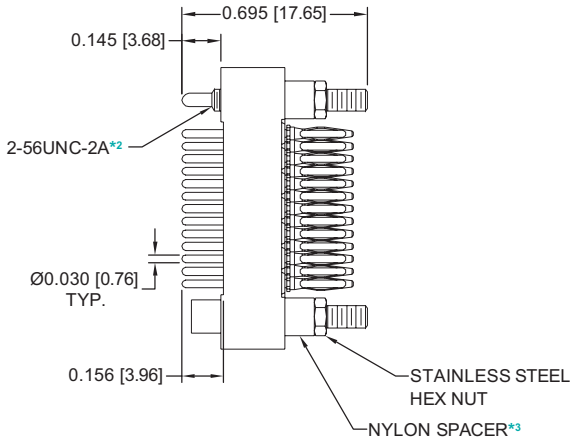
For compliant press-in contacts, specify contact code "98" in Step 4 of ordering information.

FEMALE



Typical Part Number:
SGM26S98T0000

MALE



Typical Part Number:
SGM26M98T0000

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.

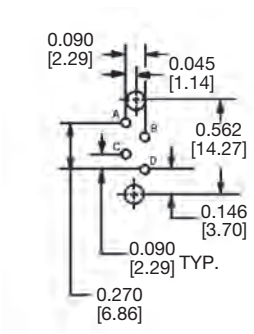
NOTE: For suggested printed board recommended drill hole sizes, plating and finished hole sizes for compliant contact termination positions, see page 40.

For compliant press-in connector installation tools, see page 39.

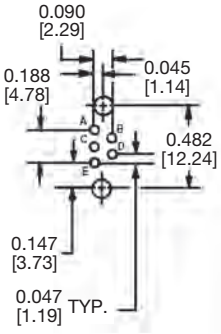
Downloaded from Arrow.com.

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

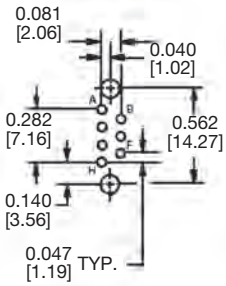
MATING FACE VIEW OF FEMALE OR REAR FACE VIEW OF MALE



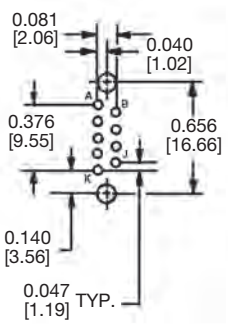
SGM 4
SGMC 4



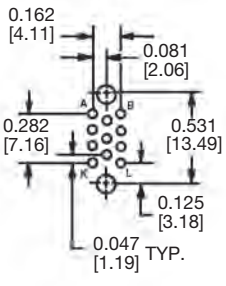
SGM 5
SGMC 5



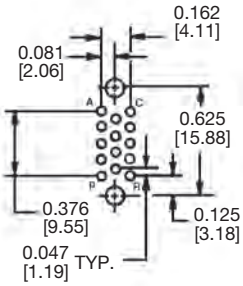
SGM 7
SGMC 7



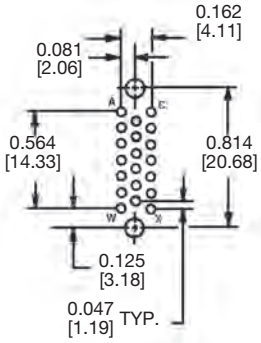
SGM 9
SGMC 9



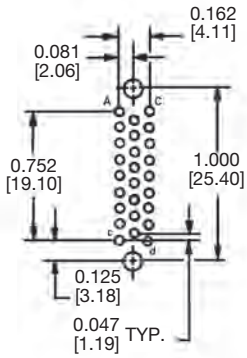
SGM 11
SGMC 11



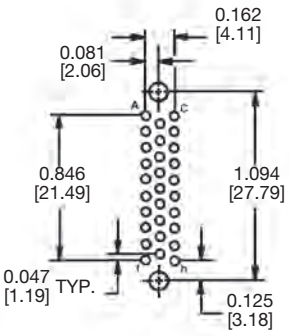
SGM 14
SGMC 14



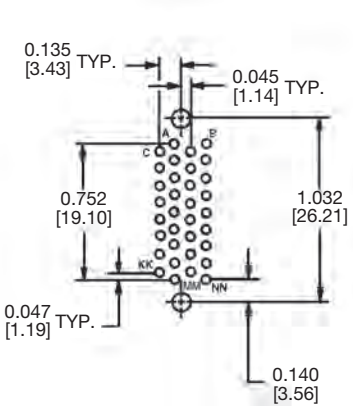
SGM 20
SGMC 20



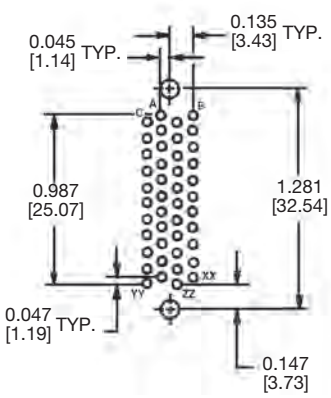
SGM 26
SGMC 26



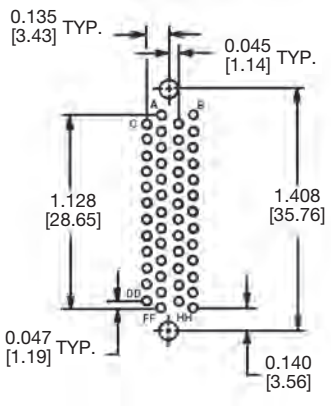
SGM 29
SGMC 29



SGM 34
SGMC 34



SGM 44
SGMC 44



SGM 50
SGMC 50

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

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

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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
EXAMPLE	SGM	26	S	SC	N	0	0	J	0	—	-14

STEP 1 - BASIC SERIES

SGM series

STEP 2 - CONNECTOR VARIANTS

4, 5, 7, 9, 11, 14, 20, 26, 29, 34, 44, 50, 75

STEP 3 - CONNECTOR GENDER

M - Male
S - Female - PosiBand closed entry contacts, *see page 1 for more information.*

STEP 4 - CONTACT TERMINATION TYPE

All female contacts "closed entry" design
DS3 – Straight solder 0.093 [2.36] not offered on 75 variant.
DS4 – Straight solder 0.125 [3.18] not offered on 75 variant.
DS5 – Straight solder 0.156 [3.96] not offered on 75 variant.
DS6 – Straight solder 0.187 [4.75] not offered on 75 variant.
SC – Solder cup
WW1 – Wrap post 0.225 [5.72] not offered on 75 variant.
WW2 – Wrap post 0.355 [9.02] not offered on 75 variant.
*2 98 – Straight printed circuit board mount, compliant press-in.

*1 STEP 5 - POLARIZING GUIDES AND JACKSCREW SYSTEMS

N – Polarizing guides.
NSS – Stainless steel polarizing guides.
T – Fixed jackscrews.
E – Rotating jackscrews with knobs.
E1 – Rotating jackscrews used with cable adapter only. Not offered on 75 variant.
ESS – Short rotating jackscrews.
0 – If no polarizing guides or jackscrews are required.

*1 STEP 6 - CONNECTOR HOUSING (SHELLS)

*3 P – Male shell.
*3 R – Female shell.
0 – If no connector housings are required.

*1 STEP 7 - CODING (KEYING) POSITIONS OF CONNECTOR HOUSING (SHELLS)

Select letter to designate position of male pin or female slot for coding system.

A, B, C, D, E, F, G
0 – If no coding is required or if no connector housings are required.

*1 STEP 8 - CABLE ADAPTER (HOOD)

J – Top opening cable adapter offered on all variants except 5, 11 and 75.
0 – If no cable adapters are required.

*1 STEP 9 - ADDITIONAL FEATURES

B – For black anodized aluminum parts.
R – For yellow chromate coating on aluminum parts.
*4 V – Lock tab, not offered on 75 variant.
*4 VL – Actuation lock lever, not offered on 75 variant.
M – Jackscrews with metric threads.
0 – If no additional options are required.

STEP 10 - SPECIAL OPTIONS

FOR SPECIAL OPTIONS, SEE SPECIAL OPTIONS APPENDIX ON PAGE 41.

NOTE:

*1 For details of items listed in steps 5 through 9, see Accessories section on pages 30-36.

*2 Contact Technical Sales for availability of size 75 connector variant.

*3 Contact Technical Sales for availability of 5, 11 and 29 connector variants.

*4 Select '0' in Step 6 when selecting 'V' and 'VL' options.

Do you need 2-D drawings or 3-D models?
See page 16 for more information!

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