SMPL SERIES INDUSTRIAL / MILITARY QUALITY FIXED RIGHT ANGLE PCB MOUNT TERMINATION

High **D**ensity Rectangular











High reliability connectors with fixed contacts.



Contacts are high density size 22.



Terminations: right angle (90°) solder printed board mount. See pages 25 for details.



Female closed entry contacts utilize the "PosiBand®" system. See page 1 for details.



Current ratings: signal level to 13 amperes. See temperature rise curves on page 2 for details.



Twelve connector variants, 4 - 50 contacts.



A multitude of polarization and connector coding (keying) options. See pages 30-34 for details.



Intermateable with SGMC and SGM series. See page 5 for SGMC series and page 15 for SGM series.



Thermocouple contact options available.



A wide variety of options and accessories.



Conforms to:

MIL-DTL-28748

Telecommunication:

• UL File # E49351

TECHNICAL CHARACTERISTICS

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 $[0.38 \mu]$ 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.

Mounting Bracket: Phosphor bronze with zinc plate and

chromate seal.

Alignment Bar: Nylon, black.

Quick Disconnect Actuation lock lever and lock tab, **Locking Device:**

copper alloy with nickel plate.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Size 22, male 0.030 inch [0.76 mm]

> mating diameter. Female - PosiBand closed entry design, see page 1 for details.

Contact Retention in

Connector Insert: 6 lbs. [26.5N] minimum.

Contact Termination: 0.020 inch [0.51 mm] termination

diameter.

Locking Systems: Friction, quick disconnect locking device

and jackscrews.



TECHNICAL CHARACTERISTICS, continued

continued from previous page. . . .

MECHANICAL CHARACTERISTICS, continued:

Polarization: Polarized guides and jackscrew system.

Coding (Keying) Device: Pin and slot system; male and female

guide system.

1000 operations per IEC 60512-5. **Mechanical Operations:**

Standard threads, 2-56 UNC. M2X0.4 Jackscrews:

metric threads 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:

Right angle (90°) printed board mount contacts are available, please contact Technical Sales for details.

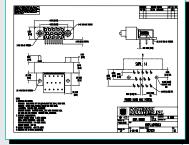
Straight printed board mount contacts are available in SGM series, see page 16 for details.

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.

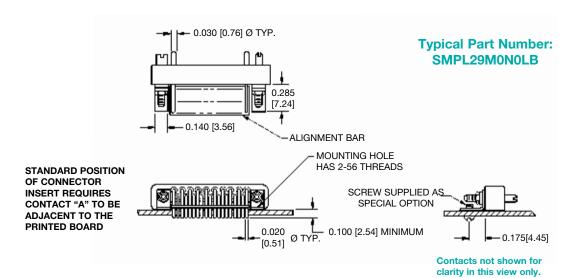


2-D Drawing



SMPL SERIES INDUSTRIAL / MILITARY QUALITY FIXED RIGHT ANGLE PCB MOUNT TERMINATION

RIGHT ANGLE (90°) SOLDER PRINTED BOARD MOUNT TERMINATION CODE 0



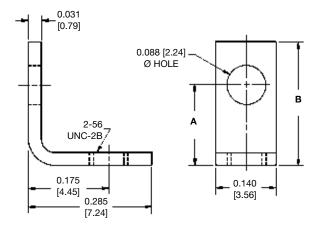
NOTE:

Add 0.030 [0.76] to the hole location dimension 0.175 [4.48] when mounting bracket (Code LB) and locking tab (Code V) are used in combination on connector.

CONNECTOR INSERT DIMENSIONS:

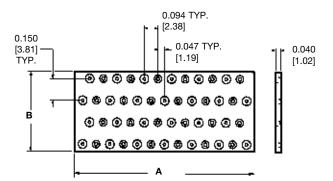
For SMPL series connector insert dimensions, refer to page 17 in SGM series.

MOUNTING BRACKET



PART NUMBER	А	В	CONNECTOR VARIANTS
80213-0	<u>0.105</u> [2.67]	<u>0.205</u> [5.21]	4, 5, 7, 9
80213-1	<u>0.140</u> [3.56]	<u>0.240</u> [6.10]	11, 14, 20, 26, 29
80213-2	<u>0.195</u> [4.95]	<u>0.295</u> [7.49]	34, 44, 50

ALIGNMENT BAR DIMENSIONS

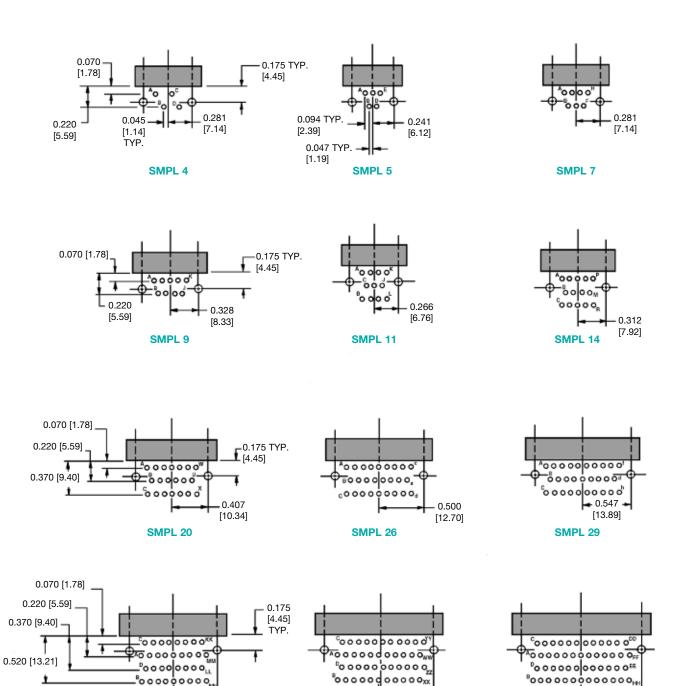


SIZE	А	В
5	0.314 [7.98]	0.290 [7.37]
7	0.394 [10.01]	0.290 [7.37]
9	0.488 [12.40]	0.290 [7.37]
11	0.364 [9.25]	0.415 [10.54]
14	0.456 [11.58]	0.415 [10.54]
20	0.646 [16.41]	0.415 [10.54]
26	0.832 [21.13]	0.415 [10.54]
29	0.926 [23.52]	0.415 [10.54]
34	0.864 [21.95]	0.550 [13.97]
44	1.112 [28.24]	0.550 [13.97]
50	1.240 [31.50]	0.550 [13.97]



RIGHT ANGLE (90°) PRINTED BOARD HOLE PATTERN

HOLE IDENTIFICATION SHOWN FOR MALE CONNECTOR; USE MIRROR IMAGE FOR FEMALE CONNECTOR.



0.024

[0.61]

SMPL 44

0.640

[16.26]

SUGGESTED PRINTED BOARD HOLE SIZES:

SMPL 34

0.516

[13.11]

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 Add 0.030 [0.76] to the hole location dimension 0.175 [4.48] when mounting bracket (Code LB) and locking tab (Code V) are used in combination on connector.

SMPL 50

0.704

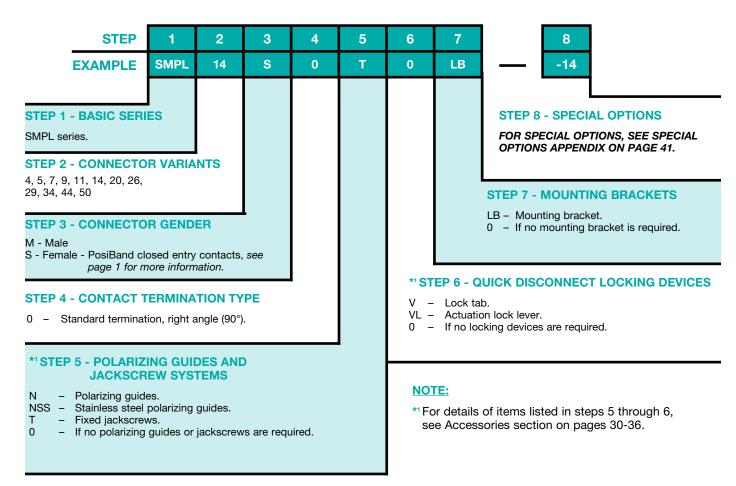
[17.88]

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High
Density
Rectangular

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 7



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

See page 24 for more information!

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