

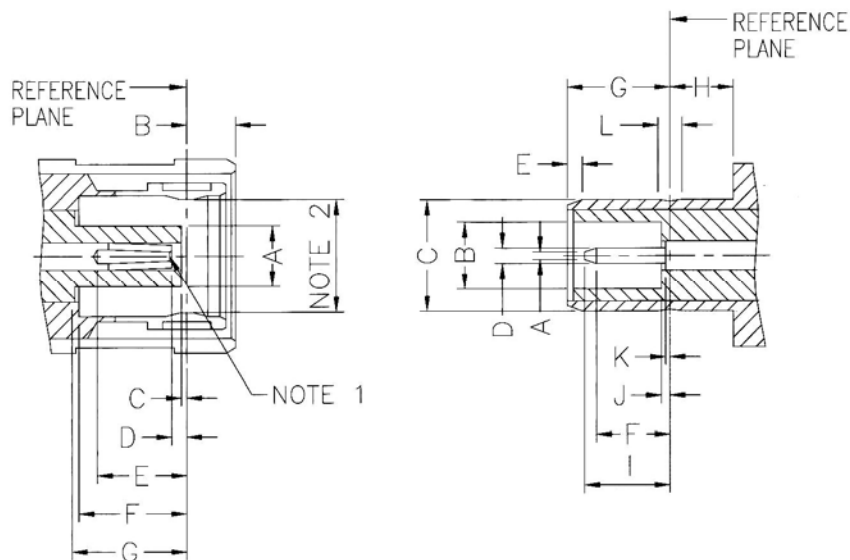
# SMB Series

SMB series are semi-precision and subminiature devices that provide repeatable electrical performance to 4GHz.

SMB family of connectors provides a mean of quick connect/disconnect through a snap-on type coupling.

SMB connectors are popularly used in telecommunications, test equipment and instrumentation.

## Interface Mating Dimensions



NOTE 1 : I.D. to meet V.S.W.R and CONTACT RESISTANCE when mated with 0.48/0.53mm DIA.PIN.

NOTE 2 : Must meet the force to engage and disengage when mated with mating part.



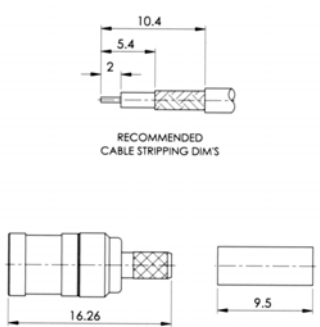
| PLUG   |             |      | JACK   |             |      |
|--------|-------------|------|--------|-------------|------|
| Letter | Millimeters |      | Letter | Millimeters |      |
|        | Min.        | Max. |        | Min.        | Max. |
| A      | 2.00        | 2.06 | A      | —           | 0.25 |
| B      | —           | 1.62 | B      | 2.08        | 2.16 |
| C      | 0.18        | —    | C      | 3.66        | 3.71 |
| D      | 0.18        | 0.94 | D      | 0.48        | 0.53 |
| E      | 2.97        | —    | E      | 0.00        | —    |
| F      | 3.58        | —    | F      | 1.32        | —    |
| G      | 3.58        | —    | G      | 3.33        | 3.58 |
|        |             |      | H      | 2.03        | —    |
|        |             |      | I      | —           | 2.97 |
|        |             |      | J      | —           | 0.18 |
|        |             |      | K      | —           | 0.18 |
|        |             |      | L      | 0.69        | 0.94 |

## Specifications

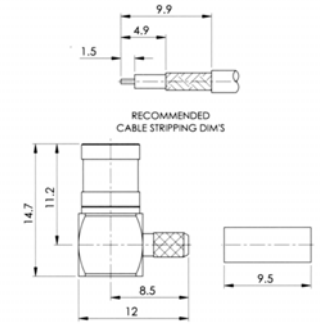
| Electrical                      |                |                                |
|---------------------------------|----------------|--------------------------------|
| Impedance                       |                | 50 ohm                         |
| Frequency Range                 |                | 0-4GHz                         |
| Working Voltage                 |                | RG-178 : 250 VRMS Max.         |
|                                 |                | RG-316, RG085 : 335 VRMS Max.  |
| Dielectric Withstanding Voltage |                | RG-178 : 750 VRMS Min.         |
|                                 |                | RG-316, RG085 : 1000 VRMS Min. |
| V.S.W.R                         | Straight       | 1.3 Max.                       |
|                                 | Right Angle    | 1.5 Max.                       |
| Contact Resistance              | Center Contact | 6 Milliohms Max.               |
|                                 | Outer Contact  | 2.5 Milliohms Max.             |
| Insulator Resistance            |                | 1000 Megohms Min.              |

| Mechanical & Environmental |                                                           |
|----------------------------|-----------------------------------------------------------|
| Engagement Force           | 8 lbs. Max.                                               |
| Disengagement Force        | 8 lbs. Min.                                               |
| Coupling Nut Retention     | Not applicable                                            |
| Coupling Proof Torque      | Not applicable                                            |
| Contact Retention          | 4 lbs. Min.                                               |
| Durability(Mating)         | 500 cycles Min. (For Beryllium copper Jack contact only). |
| Temperature Range          | -65°C to 165°C                                            |
| Vibration                  | MIL-STD-202 Method 204 Test Cond.B.                       |
| Salt Spray                 | MIL-STD-202 Method 101 Test Cond.B.                       |
| Thermal Shock              | MIL-STD-202 Method 107 Test Cond.B.                       |

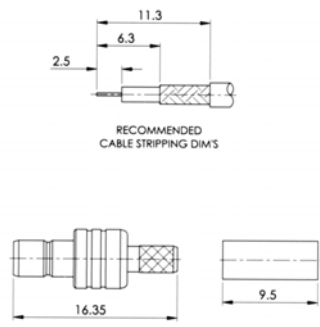
**STRAIGHT PLUG CRIMP**

|  |  | Model No. | Model Name      | Cables                         | Material & Finish |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|-----------------|--------------------------------|-------------------|
|                                                                                   |                                                                                   | D-C05-001 | SMB-P-174/U-T2  | RG174/U<br>RG188A/U<br>RG316/U | BS<br>Au          |
|                                                                                   |                                                                                   | D-C05-002 | SMB-P-178B/U-T2 | RG178B/U<br>RG196A/U           | BS<br>Au          |
|                                                                                   |                                                                                   | D-C05-036 | SMB-P-316D/U-T2 | RG316D/U                       | BS<br>Au          |

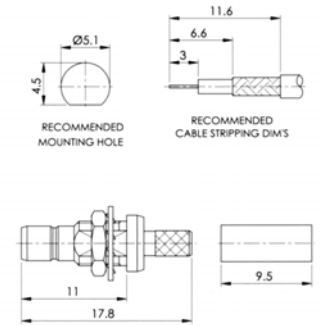
**RIGHT ANGLE PLUG CRIMP**

|  |  | Model No. | Model Name       | Cables                         | Material & Finish |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------|------------------|--------------------------------|-------------------|
|                                                                                    |                                                                                    | D-C05-007 | SMB-LP-174/U-T2  | RG174/U<br>RG188A/U<br>RG316/U | BS<br>Au          |
|                                                                                    |                                                                                    | D-C05-008 | SMB-LP-178B/U-T2 | RG178B/U<br>RG196A/U           | BS<br>Au          |
|                                                                                    |                                                                                    | D-C05-037 | SMB-LP-316D/U-T2 | RG316D/U                       | BS<br>Au          |

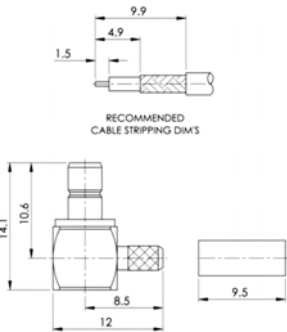
**STRAIGHT JACK CRIMP**

|  |  | Model No. | Model Name      | Cables                         | Material & Finish |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------------|--------------------------------|-------------------|
|                                                                                     |                                                                                     | D-C05-003 | SMB-J-174/U-T2  | RG174/U<br>RG188A/U<br>RG316/U | BS<br>Au          |
|                                                                                     |                                                                                     | D-C05-004 | SMB-J-178B/U-T2 | RG178B/U<br>RG196A/U           | BS<br>Au          |
|                                                                                     |                                                                                     | D-C05-038 | SMB-J-316D/U-T2 | RG316D/U                       | BS<br>Au          |

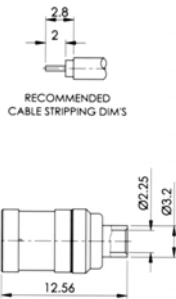
**STRAIGHT JACK BULKHEAD CRIMP**

|  |  | Model No. | Model Name       | Cables                         | Material & Finish |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|------------------|--------------------------------|-------------------|
|                                                                                     |                                                                                     | D-C05-005 | SMB-BJ-174/U-T2  | RG174/U<br>RG188A/U<br>RG316/U | BS<br>Au          |
|                                                                                     |                                                                                     | D-C05-006 | SMB-BJ-178B/U-T2 | RG178B/U<br>RG196A/U           | BS<br>Au          |
|                                                                                     |                                                                                     | D-C05-039 | SMB-BJ-316D/U-T2 | RG178B/U<br>RG196A/U           | BS<br>Au          |

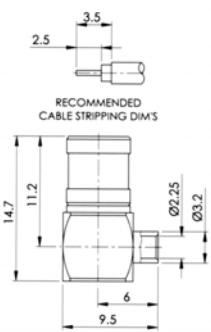
**RIGHT ANGLE JACK CRIMP**

|  |  | Model No. | Model Name       | Cables                          | Material & Finish |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|------------------|---------------------------------|-------------------|
|                                                                                   |                                                                                   | D-C05-018 | SMB-LJ-174/U-T2  | RG174/U,<br>RG188A/U<br>RG316/U | BS<br>Au          |
|                                                                                   |                                                                                   | D-C05-019 | SMB-LJ-178B/U-T2 | RG178B/U<br>RG196A/U            | BS<br>Au          |
|                                                                                   |                                                                                   | D-C05-040 | SMB-LJ-316D/U-T2 | RG316D/U                        | BS<br>Au          |

**STRAIGHT PLUG Semi-rigid**

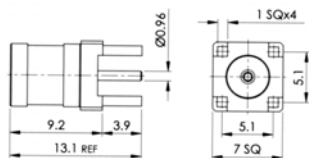
|  |  | Model No. | Model Name  | Cables                | Material & Finish |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------|-------------|-----------------------|-------------------|
|                                                                                   |                                                                                    | D-C05-020 | SMB-P-RG402 | RG402<br>(Semi-rigid) | BS<br>Au          |

**RIGHT ANGLE PLUG Semi-rigid**

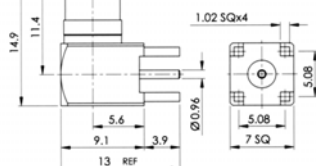
|  |  | Model No. | Model Name   | Cables                | Material & Finish |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|--------------|-----------------------|-------------------|
|                                                                                     |                                                                                     | D-C05-022 | SMB-LP-RG405 | RG405<br>(Semi-rigid) | BS<br>Au          |

**STRAIGHT PLUG P.C.B RECEPTACLE**

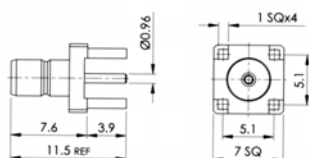
|  |  | Model No. | Model Name | Material & Finish |
|--|--|-----------|------------|-------------------|
|  |  | D-C05-016 | SMB-PR-PCB | BS<br>Au          |

**RIGHT ANGLE PLUG P.C.B. RECEPTACLE**

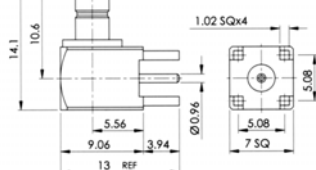
|  |  | Model No. | Model Name  | Material & Finish |
|--|--|-----------|-------------|-------------------|
|  |  | D-C05-009 | SMB-LPR-PCB | BS<br>Au          |

**STRAIGHT JACK P.C.B. RECEPTACLE**

|  |  | Model No. | Model Name | Material & Finish |
|--|--|-----------|------------|-------------------|
|  |  | D-C05-014 | SMB-R-PCB  | BS<br>Au          |

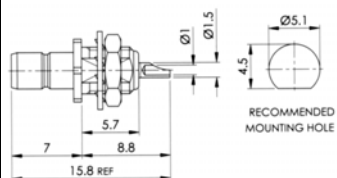
**RIGHT ANGLE JACK P.C.B. RECEPTACLE**

|  |  | Model No. | Model Name | Material & Finish |
|--|--|-----------|------------|-------------------|
|  |  | D-C05-010 | SMB-LR-PCB | BS<br>Au          |

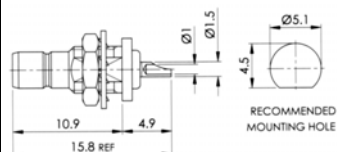


**STRAIGHT JACK BULKHEAD RECEPTACLE**

|  |  | Model No. | Model Name | Material & Finish |
|--|--|-----------|------------|-------------------|
|  |  | D-C05-011 | SMB-BR     | BS<br>Au          |

**STRAIGHT JACK BULKHEAD RECEPTACLE**

|  |  | Model No. | Model Name | Material & Finish |
|--|--|-----------|------------|-------------------|
|  |  | D-C05-017 | SMB-BR     | BS<br>Au          |

**STRAIGHT JACK RECEPTACLE  
2 HOLE FLANGE**

|  |  | Model No. | Model Name | Material & Finish |
|--|--|-----------|------------|-------------------|
|  |  | D-C05-023 | SMB-R      | BS<br>Au          |

