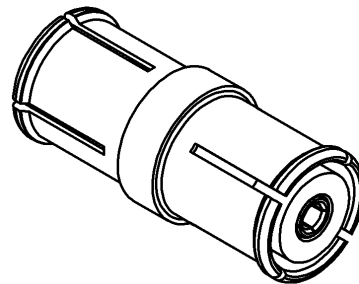
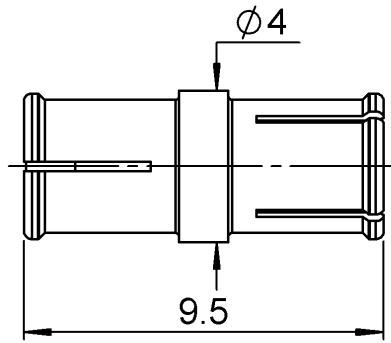
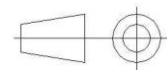


|          |                        |                       |                               |
|----------|------------------------|-----------------------|-------------------------------|
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All dimensions are in mm.



| COMPONENTS     | MATERIALS               | PLATING (µm) |
|----------------|-------------------------|--------------|
| Body           | <b>BERYLLIUM COPPER</b> | <b>NPGR</b>  |
| Center contact | <b>BERYLLIUM COPPER</b> | <b>NPGR</b>  |
| Outer contact  |                         |              |
| Insulator      | <b>PTFE</b>             |              |
| Gasket         |                         |              |
| Others parts   |                         |              |
| -              | -                       | -            |
| -              | -                       | -            |

|          |                        |                       |                               |
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### PACKAGING

| Standard   | Unit              | Other             |
|------------|-------------------|-------------------|
| <b>100</b> | <b>Contact us</b> | <b>Contact us</b> |

### ELECTRICAL CHARACTERISTICS

Impedance **50** Ω  
 Frequency **0 - 10** GHz  
 VSWR (max.) / Return Loss (max.)

| DC - 2 GHz   | 2 - 4 GHz    | 4 - 6 GHz    |
|--------------|--------------|--------------|
| 1.07 / -30dB | 1.12 / -27dB | 1.14 / -24dB |

Insertion loss **< 0.05\*** √F(GHz) dB  
 RF leakage - ( **NA** - F(GHz)) dB  
 Voltage rating **335** Veff Maxi  
 Dielectric withstanding voltage **1000** Veff mini  
 Insulation resistance **5000** MΩ mini

### MECHANICAL CHARACTERISTICS

Center contact retention  
 Axial force – Mating End **7** N mini  
 Axial force – Opposite end **7** N mini  
 Torque **NA** N.cm mini

Radiall working range **0.0000** mm  
 Warning: To ensure a blind mate assembly, please check the pull-in range of the mating receptacle.

Recommended torque  
 Mating **NA** N.cm  
 Panel nut **NA** N.cm

Mating life **100** Cycles mini  
 Weight **0.2840** g

### ENVIRONMENTAL

Operating temperature **-55/+165** °C  
 Hermetic seal **NA** Atm.cm3/s  
 Panel leakage **NA**

### SPECIFICATION

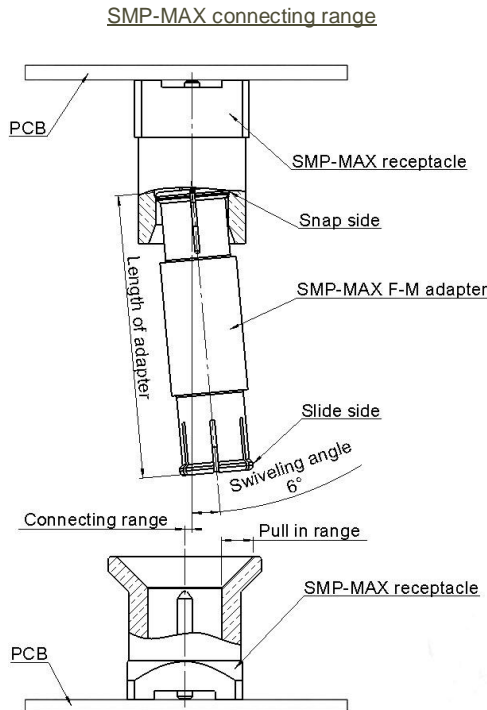
### OTHER CHARACTERISTICS

Assembly instruction:

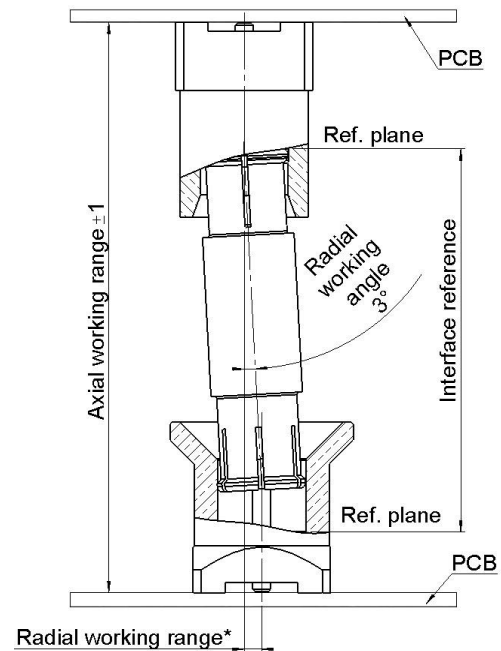
Others:  
 \*Coaxial Transmission Line Only  
**Radial working angle: 3°min**  
**Axial working range : 2mm**

|          |                 |                |                        |
|----------|-----------------|----------------|------------------------|
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### GENERAL DATA OF SMP-MAX SERIE



### SMP-MAX radial and axial working range



The connecting range represents the maximum misalignment during connection.

The swiveling angle is the maximum possible angle of the adapter in a snap receptacle.

A blind assembly is guaranteed if radial misalignment is smaller than connecting range. Otherwise a manual lead-in is necessary.

Electrical performance is achieved when radial and axial misalignments are within their working ranges.

Radial working range = (length of the adapter) x Sinus(radial working angle)

### Typical RF performances for a set:

slide receptacle + adapter + snap receptacle (receptacles soldered on boards):

| V.S.W.R / Return loss   | Misalignment                                 | DC - 3 GHz     | 3 - 6 GHz       |
|-------------------------|--|----------------|-----------------|
|                         | Radial 0°, Axial 0mm                         | <1.15/-23.9 dB | <1.25/-19.10 dB |
| Radial 0°, Axial +/-1mm | <1.20/-20.8 dB                               | <1.35/-16.5 dB |                 |
| Radial 3°, Axial 0mm    | <1.15/-23.1 dB                               | <1.25/-19.1 dB |                 |
| Radial 3°, Axial +/-1mm | <1.20/-20.8 dB                               | <1.35/-16.5 dB |                 |
| Insertion loss          | Misalignment                                 | DC - 3 GHz     | 3 - 6 GHz       |
|                         | Radial 0°, Axial 0mm                         | <0.10 dB       | <0.15 dB        |
|                         | Radial 0°, Axial +/-1mm                      | <0.12 dB       | <0.25 dB        |
|                         | Radial 3°, Axial 0mm                         | <0.10 dB       | <0.15 dB        |
| Radial 3°, Axial +/-1mm | <0.12 dB                                     | <0.25 dB       |                 |
| handling power          | >300W @2.7GHz at 25°C; >200W @2.7GHz at 85°C |                |                 |

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