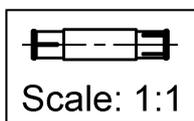
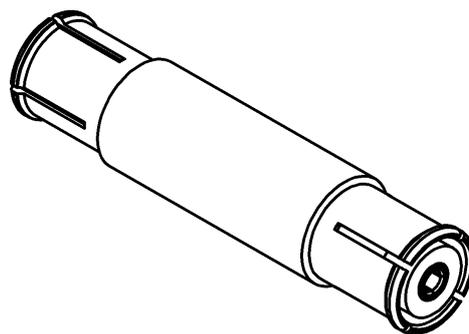
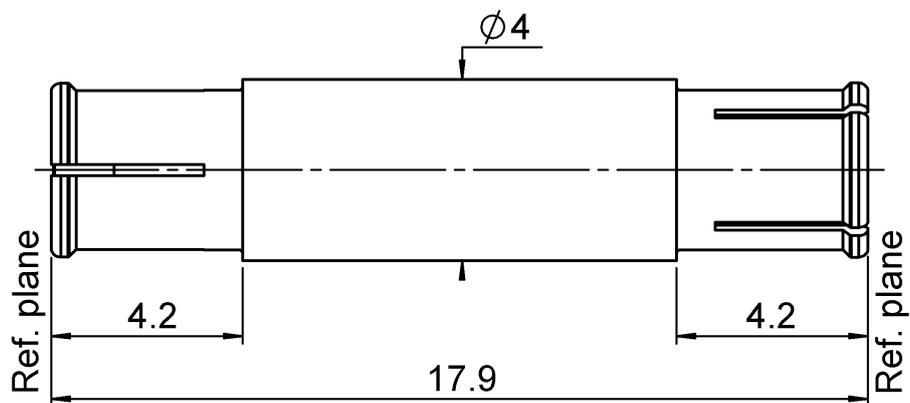
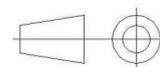


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All dimensions are in mm.



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

| | | | |
|----------|------------------------|-----------------------|-------------------------------|
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PACKAGING

| | | |
|------------|-------------------|-------------------|
| Standard | Unit | Other |
| 100 | Contact us | Contact us |

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 **0.8600** g

ENVIRONMENTAL

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

SPECIFICATION

OTHER CHARACTERISTICS

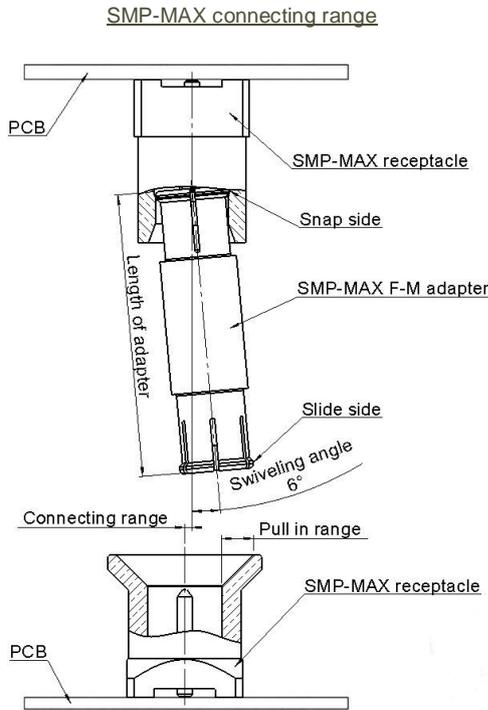
Assembly instruction: **NA**

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

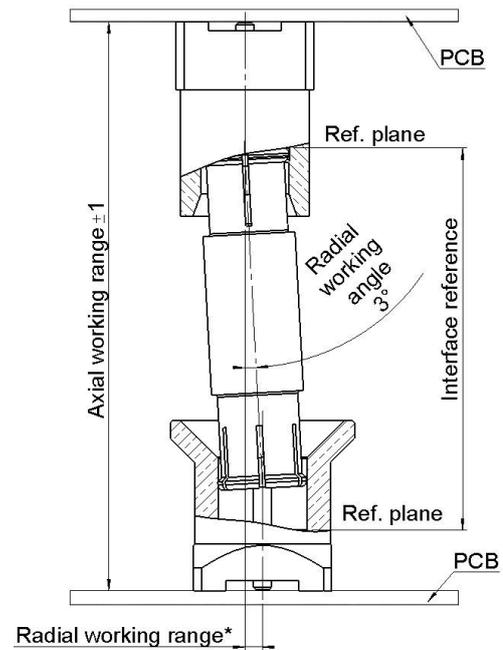
Because of the BBR plating, the typical values of the outer contact resistance may slightly differ compared to the NPGR plated adapters.

| | | | |
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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 | | |