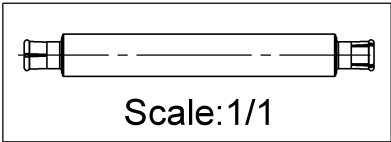
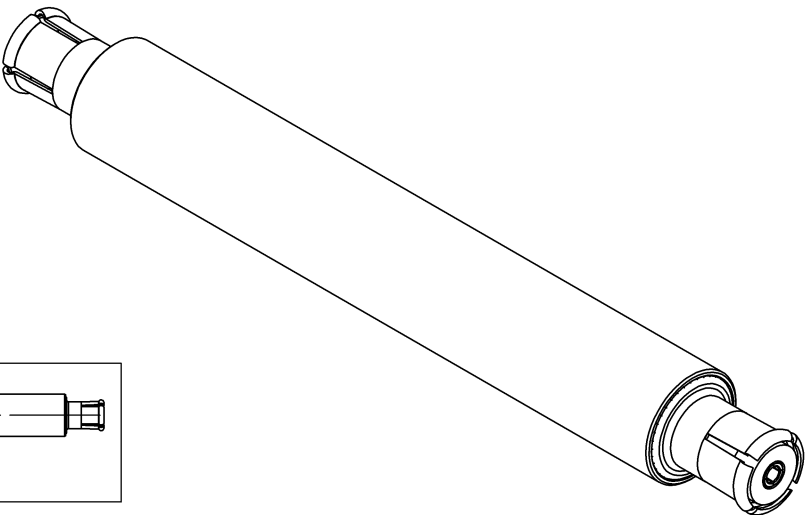
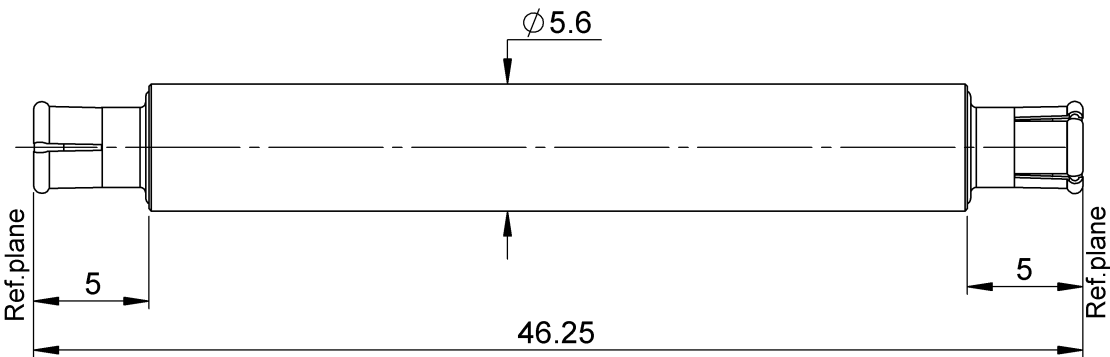
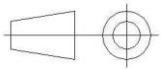


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All dimensions are in mm.



COMPONENTS	MATERIALS	PLATING ( $\mu\text{m}$ )
Body	BRASS	BBR
Center contact	BERYLLIUM COPPER	NPGR
Outer contact	BERRYLIUM COPPER	NPGR
Insulator	PTFE	
Gasket		
Others parts		
-	-	-
-	-	-

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ISSUE **08-11-16A**

SERIES **SMP-MAX**

PART NUMBER **R222M43212**

## PACKAGING

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

## ELECTRICAL CHARACTERISTICS

Impedance **50**  $\Omega$   
 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\***  $\sqrt{F(\text{GHz})}$  dB  
 RF leakage - ( **NA** - F(GHz)) dB  
 Voltage rating **335** Veff Maxi  
 Dielectric withstanding voltage **1000** Veff mini  
 Insulation resistance **5000** M $\Omega$  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 **4.5290** g

## ENVIRONMENTAL

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

## SPECIFICATION

## OTHER CHARACTERISTICS

Assembly instruction: **NA**

Others:

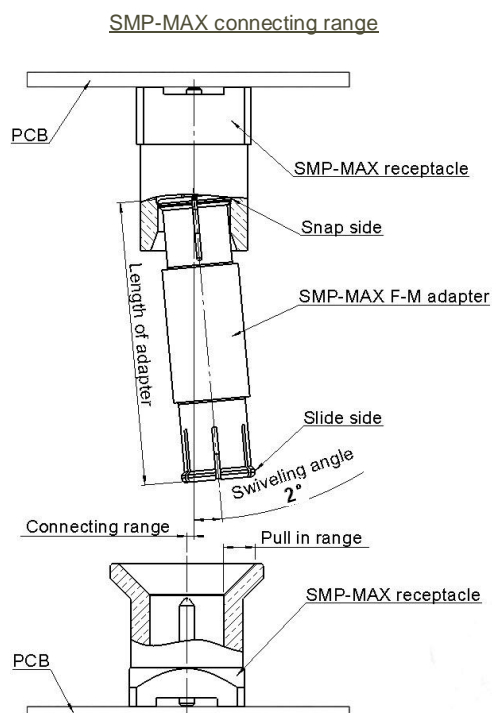
**\*Coaxial Transmission Line Only**

**Radial working angle: 1° min.**

**Axial working range: 2 mm**

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

## GENERAL DATA OF SMP-MAX SERIE

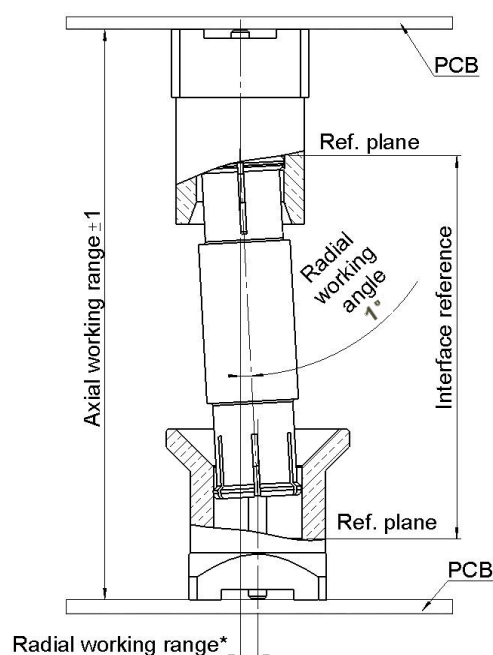


The connecting range represents the maximum misalignment during connection.

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.

## SMP-MAX radial and axial working range



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		