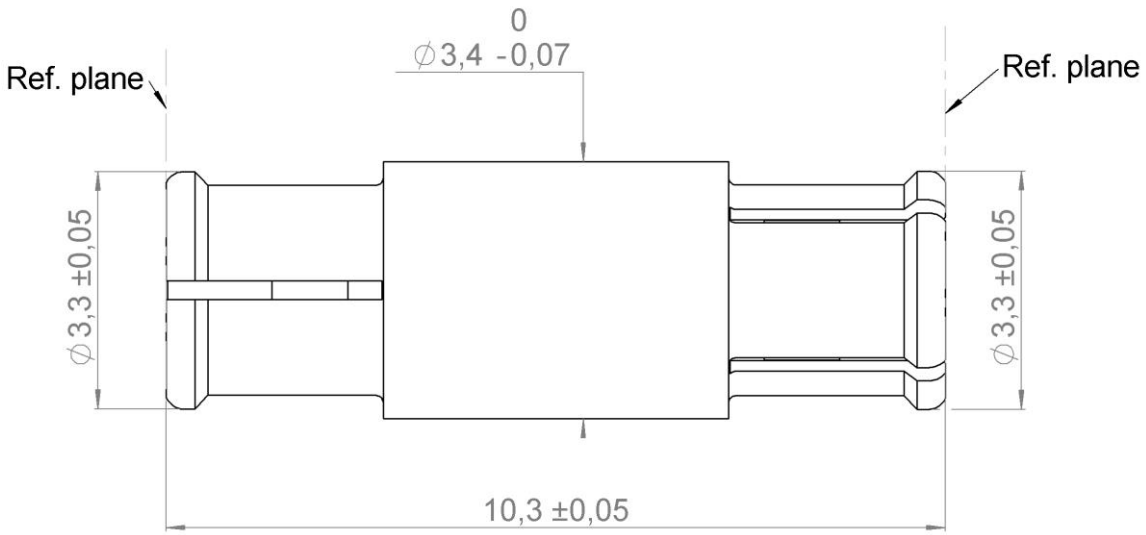
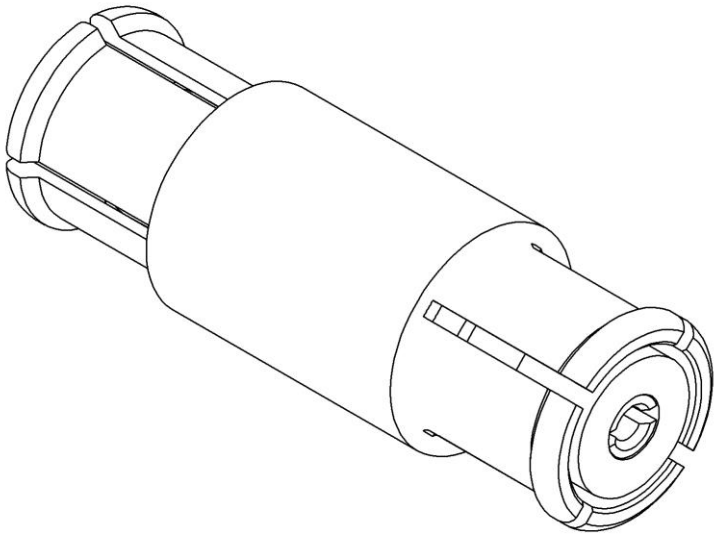
# Technical Data Sheet

SMPS FEMALE SMPS FEMALE STAIGHT LENGHT 10.3MM

| PAGE **1/3** | ISSUE **2040A** | SERIES **SMP-S** | PART NUMBER **R232705220** |
|---|---|---|---|

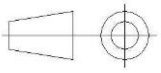




Scale 1:1

All dimensions are in mm.



| COMPONENTS | MATERIALS | PLATING (µm) |
|---|---|---|
| Body | **BERYLLIUM COPPER** | **GOLD 1.3 OVER NICKEL2** |
| Center contact | **BERYLLIUM COPPER** | **GOLD 1.3 OVER NICKEL2** |
| Outer contact | | |
| Insulator | **PTFE** | |
| Gasket | | |
| Others parts | | |
| - | **-** | **-** |
| - | **-** | **-** |

This document contains proprietary information and such information shall not be disclosed to any third party for any purpose whatsoever or used for manufacturing purposes without prior written agreement from Radiall. The data defined in this document are given as an indication, in the effort to improve our products; we reserve the right to make any changes judged necessary.

## PACKAGING

| Standard | Unit | Other |
|---|---|---|
| **1** | **-** | **Contact us** |

## ELECTRICAL CHARACTERISTICS

| | | | | |
|---|---|---|---|---|
| Impedance | | | **50** | Ω |
| Frequency | | | **0-40** | GHz |
| VSWR | **1.5** | **+** | **0,0000** | x F(GHz) Maxi |
| Insertion loss | | | **0.02+0.12** | √F(GHz) dB Maxi |
| RF leakage | | - ( | **NA** | - F(GHz)) dB Maxi |
| Voltage rating | | | **335** | Vrms Maxi |
| Dielectric withstanding voltage | | | **500** | Vrms 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 |
| Recommended torque | | |
| Mating | **NA** | N.cm |
| Panel nut | **NA** | N.cm |
| Mating life | **100** | Cycles Maxi |
| Weight | **0,4400** | g Maxi |

## ENVIRONMENTAL

| | | |
|---|---|---|
| Operating temperature | **-65/+165** | °C |
| Hermetic seal | **NA** | Atm.cm3/s |
| Panel leakage | **NA** | |

## SPECIFICATION

**RAD DET CONN 001**
**RAD-DET-CONN 019**

## OTHER CHARACTERISTICS

Assembly instruction:**NA**

Others:
**NOTA 1: DC-22GHz: 1.2**
**22-40GHz: 1.5**
**Use SMP Kit of calibration,**
**The connector will be tested at DC to 31.5GHz**
**(due to the limitation of SMP Kit of calibration)**

This document contains proprietary information and such information shall not be disclosed to any third party for any purpose whatsoever or used for manufacturing purposes without prior written agreement from Radiall. The data defined in this document are given as an indication, in the effort to improve our products; we reserve the right to make any changes judged necessary.

## ADDITIONAL INFORMATIONS
## MOUNTING AND REPLACEMENT INSTRUCTIONS

1- INFORMATION

Mechanical durability:

For full detent connector: 100 Cycles
For limited detent connector: 500 Cycles
For smooth bore connector: 1000 Cycles

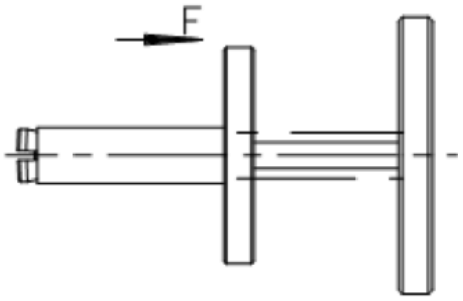
Axial misalignement: 0/+0.25mm
Radial misalignement: ±0.25mm

| Force to | Engage | Disengage |
|---|---|---|
| Full detent | 68N Maxi | 22N mini |
| Limited detent | 45N Maxi | 9N mini |
| Smooth bore | 9N Maxi | 2.2N mini |

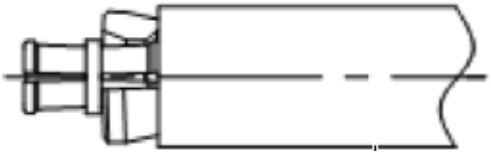
2- MOUTING AND REPLACEMENT

Adaptor must be mounted or removed with tooling R282.918.100

1. Push in F direction to open the tool.




2. Place the adaptor into the tool
Until it bottoms against.



3. Push on the adaptor, and release
The smallest tool diameter
(the force to fixe the adaptor is applied by a spring)



4. Push on the biggest tool diameter to place the adaptor.
To remove the adaptor, pull off on the biggest tool diameter.

This document contains proprietary information and such information shall not be disclosed to any third party for any purpose whatsoever or used for manufacturing purposes without prior written agreement from Radiall. The data defined in this document are given as an indication, in the effort to improve our products; we reserve the right to make any changes judged necessary.