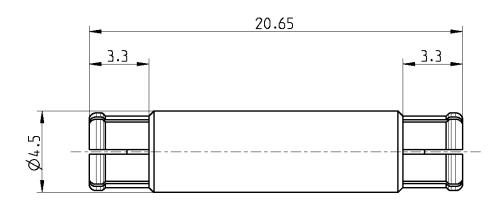
Technical Data Sheet		Rosenberger		
P-SMP	Adaptor	119K106-K00N5		





All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface	
According to	Rosenberger P-SMP
Documents	N/A

Material and plating				
Connector parts	Material	Plating		
Center contact	CuBe	AuroDur®, gold plated		
Outer contact	CuBe	Flash white bronze over silver(e.g. Optargen®)		
Dielectric	PTFE			

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# Technical Data Sheet Rosenberger

P-SMP Adaptor **119K106-K00N5** 

#### Electrical data

Impedance 50  $\Omega$ 

Frequency DC to 10 GHz
Return loss ≥ 30 dB, DC to 2 GHz

≥ 27 dB, 2 to 4 GHz ≥ 24 dB, 4 to 6 GHz

Insertion loss  $\leq 0.05 \text{ x } \sqrt{f(GHz)} dB$ 

 $\begin{array}{ll} \mbox{Insulation resistance} & \geq 5 \ \mbox{G}\Omega \\ \mbox{Center contact resistance} & \leq 3.0 \ \mbox{m}\Omega \\ \mbox{Outer contact resistance} & \leq 2.0 \ \mbox{m}\Omega \\ \mbox{Test voltage (at sea level)} & 1000 \ \mbox{V rms} \\ \mbox{Working voltage (at sea level)} & 480 \ \mbox{V rms} \\ \end{array}$ 

Power handling (at 20 °C, sea level, VSWR 1.0)  $\leq$  200 W @ 2.2 GHz Intermodulation (3<sup>rd</sup> order)  $\geq$  160 dBc (2 x 43 dBm)

### Mechanical data

Mating cycles

 $\begin{array}{ll} \text{if mating part is Smooth bore, Catchers mitt} & \geq 1000 \\ \text{if mating part is Limited detent} & \geq 100 \\ \text{if mating part is Full detent} & \geq 100 \\ \text{Center contact captivation} & \geq 7 \text{ N} \\ \text{Engagement force} \end{array}$ 

 $\begin{array}{lll} \text{- Smooth bore, Catchers mitt} & \leq 10 \text{ N} \\ \text{- Limited detent} & \leq 45 \text{ N} \\ \text{- Full detent} & \leq 68 \text{ N} \\ \end{array}$ 

Disengagement force

 $\begin{array}{ll} \text{- Smooth bore, Catchers mitt} & \geq 2.2 \text{ N} \\ \text{- Limited detent} & \geq 15 \text{ N} \\ \text{- Full detent} & \geq 25 \text{ N} \\ \text{Permissible angular misalignment} & 2.8^{\circ} \\ \end{array}$ 

#### **Environmental data**

Temperature range -65°C to +165°C

Rapid change of temperature IEC 60169-1, Sub-clause 16.4 (-65°C to +165°C)

Vibration IEC 60068-2-64 random Shock IEC 60068-2-27 (half-sine)

High temperature endurance IEC 60169-1, Sub-clause 18 (+165°C, 1000 hours)

RoHS compliant

## Weight

Weight 1.2 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Gramsamer Josef	08.10.09	Chr. Janßen	21.10.20	c00	20-1927	S. Huber-Siegl	21.10.20

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