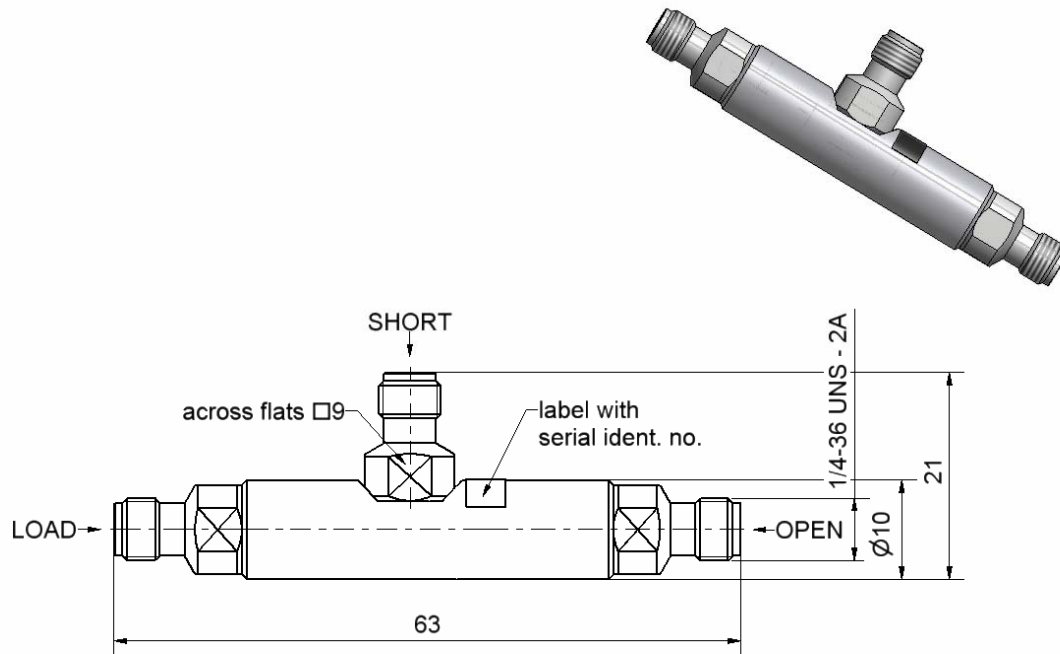




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to
Mechanically compatible with

IEC 60169-23
RPC-2.92 and SMA

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Substrate

Material

Beryllium copper
Brass
Brass
PS
AL₂O₃

Plating

Gold, min. 1.27 µm, over chemical nickel
White bronze(e.g. Optalloy®)
White bronze(e.g. Optalloy®)

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Center contact resistance	$\leq 3.0 \text{ m}\Omega$
Outer contact resistance	$\leq 2.0 \text{ m}\Omega$

Open

Return loss	$ S_{11} \leq 0.15 \text{ dB}$, DC to 4 GHz $ S_{11} \leq 0.30 \text{ dB}$, 4 GHz to 26.5 GHz
Fringing capacitance	$C_0 = 58.000 \times 10^{-15} \text{ F}$ $C_1 = 881.800 \times 10^{-27} \text{ F/Hz}$ $C_2 = -100.00 \times 10^{-36} \text{ F/Hz}^2$ $C_3 = 3.500 \times 10^{-45} \text{ F/Hz}^3$
Resulting phase uncertainty	$ \arg(S_{11}) \leq 1.5^\circ$, DC to 4 GHz $ \arg(S_{11}) \leq 4.0^\circ$, 4 GHz to 26.5 GHz
Offset length	7.00 mm

Short

Return loss	$ S_{11} \leq 0.10 \text{ dB}$, DC to 4 GHz $ S_{11} \leq 0.20 \text{ dB}$, 4 GHz to 26.5 GHz
Normal phase at short plane	$\varphi = 180^\circ$
Resulting phase uncertainty	$ \arg(S_{11}) \leq 1.5^\circ$, DC to 4 GHz $ \arg(S_{11}) \leq 4.0^\circ$, 4 GHz to 26.5 GHz
Offset length	7.80 mm $\pm$ 0,02 mm

Load

Return loss	$\geq 40.0 \text{ dB}$, DC to 4 GHz $\geq 30.0 \text{ dB}$, 4 GHz to 26.5 GHz
DC-Resistance	50 $\Omega \pm 0.5 \Omega$
Power handling	$P_{\text{max}} = 0.5 \text{ W}$

Mechanical data

Mating cycles	≥ 500
Center contact captivation	$\geq 27 \text{ N}$
Coupling test torque	1.70 Nm
Recommended torque	0.80 Nm to 1.10 Nm
Gauge	0.00 mm– 0.08 mm

Environmental data

Temperature range	0°C to +50°C
2002/95/EC (RoHS)	compliant

Packing

Standard	1 pce in air cushion bag
Weight	23.0 g

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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Kerstin Hobrak	15/03/08	Andreas Burkert	14/08/08	a00	08-s0381	Kerstin Hobrak	15/08/08
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de			Page 2 / 2