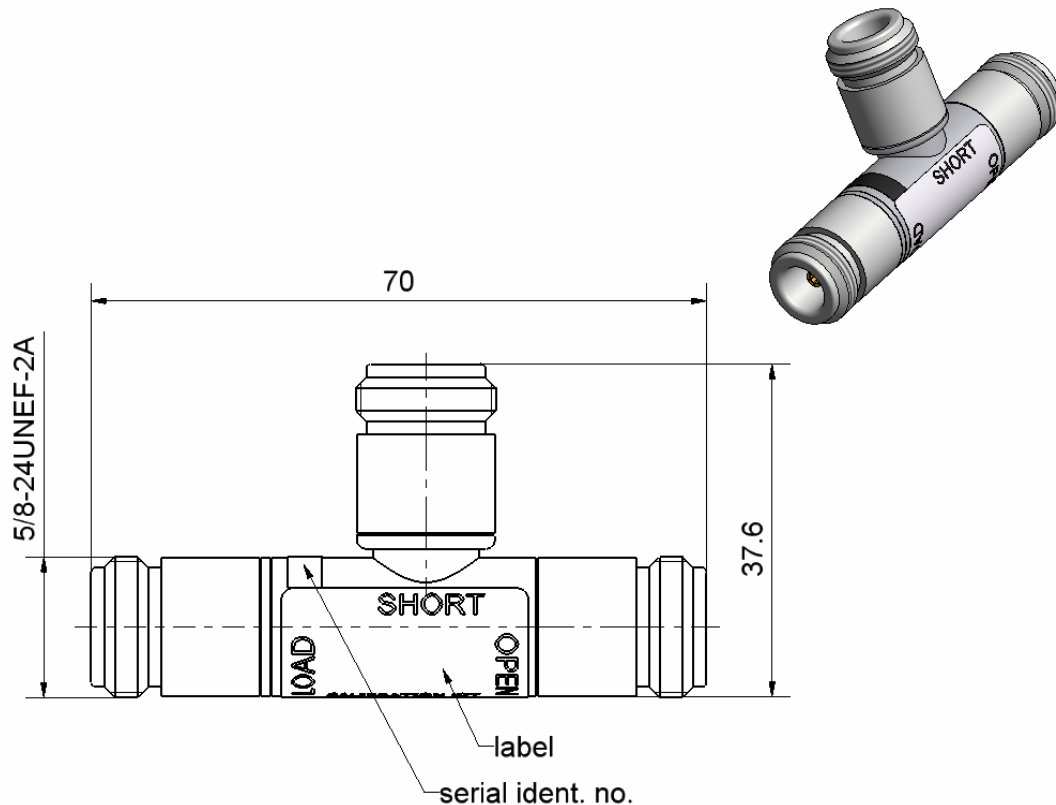




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Substrate

Material

Beryllium copper
Brass
Brass
PTFE / PPE
 Al_2O_3

Plating

Gold, min. 1.27 μm , over nickel
Flash white bronze over silver(e.g. Optargen®)
Nickel, 2.5-5 μm

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Center contact resistance	$\leq 1 \text{ m}\Omega$
Outer contact resistance	$\leq 0.25 \text{ m}\Omega$

Open

Return loss	$ S_{11} \leq 0.1 \text{ dB to 6 GHz}$
Fringing capacitance	$C_0 = -13.0263 \times 10^{-15} \text{ F}$ $C_1 = 125.153 \times 10^{-27} \text{ F/Hz}$ $C_2 = 2947.55 \times 10^{-36} \text{ F/Hz}^2$ $C_3 = -408.224 \times 10^{-45} \text{ F/Hz}^3$
Resulting phase uncertainty	$ \arg(S_{11}) \leq 3.0^\circ \text{ to 6 GHz}$
Offset length	11.2 mm $\pm$ 0.05 mm

Short

Return loss	$ S_{11} \leq 0.1 \text{ dB to 6 GHz}$
Normal phase at short plane	$\varphi = 180^\circ$
Resulting phase uncertainty	$ \arg(S_{11}) \leq 2.0^\circ \text{ to 6 GHz}$
Offset length	11.2 mm $\pm$ 0.05 mm

Load

Return loss	$ S_{11} \geq 42 \text{ dB to 2.5 GHz}$ $ S_{11} \geq 38 \text{ dB, 2.5 GHz to 6 GHz}$
DC-Resistance	$R = 50 \Omega \pm 0.5 \Omega$
Power handling	$P_{\max} = 1.0 \text{ W (0}^\circ\text{C to 50}^\circ\text{C)}$

Mechanical data

Mating cycles	min. 500
Center contact captivation	$\geq 28 \text{ N}$
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm
Gauge	4.75 mm – 5.26 mm

Environmental data

Temperature range	-40°C to +85°C
2002/95/EC (RoHS)	compliant

Packing

Standard	1 pce in air cushion bag
Weight	115.2 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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Kerstin Herzog	20/07/06	Frank Weiß	14/09/06	c00	06-0592	Kerstin Herzog	14/09/06