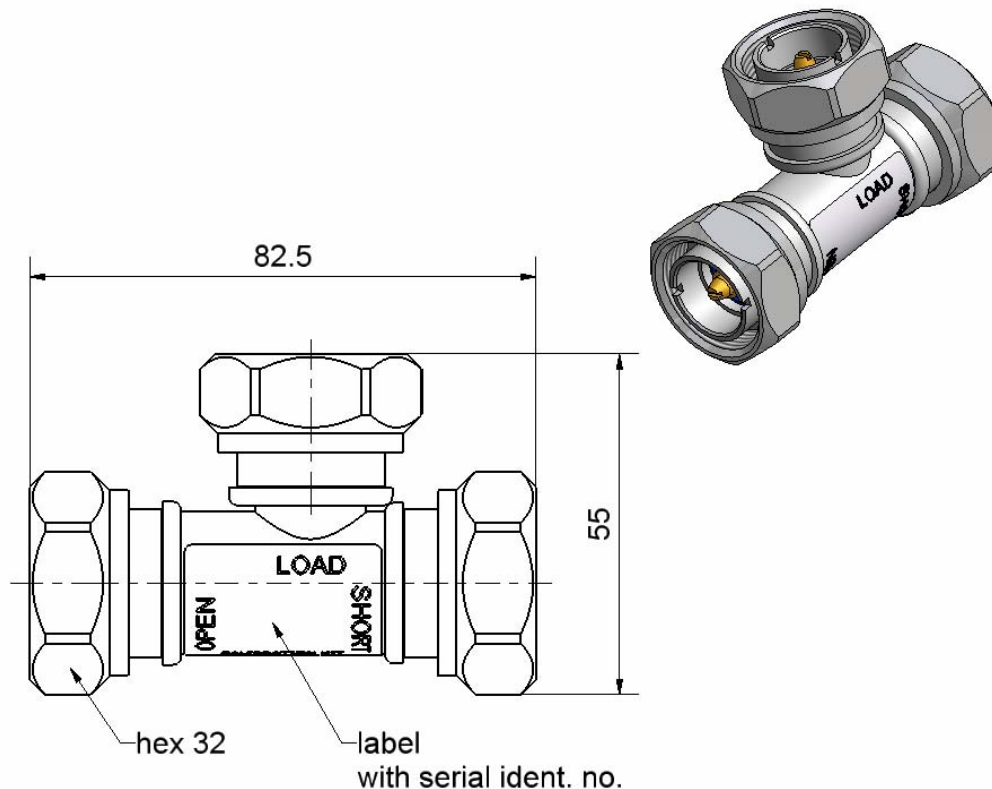




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to IEC 60169-4, VG 95250, EN 122190, DIN 47223

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Body
Coupling nut
Dielectric
Substrate

Material

Brass
Brass
Brass
brass
PPE
Al₂O₃

Plating

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

Electrical data

Impedance	50 Ω
Frequency	DC to 4 GHz
Center contact resistance	$\leq 0.4 \text{ m}\Omega$
Outer contact resistance	$\leq 1.5 \text{ m}\Omega$

Open

Return loss	$ S_{11} \leq 0.15 \text{ dB to } 4 \text{ GHz}$
Fringing capacitance	$C_0 = 181.594 \times 10^{-15} \text{ F}$ $C_1 = 8.09758 \times 10^{-27} \text{ F/Hz}$ $C_2 = 145.418 \times 10^{-36} \text{ F/Hz}^2$ $C_3 = 45.8825 \times 10^{-45} \text{ F/Hz}^3$
Resulting phase uncertainty	$ \arg(S_{11}) \leq 3.0^\circ \text{ to } 4 \text{ GHz}$
Offset length	$16.9\text{mm} \pm 0.04\text{mm}$

Short

Return loss	$ S_{11} \leq 0.15 \text{ dB to } 4 \text{ GHz}$
Nominal phase at short plane	$\varphi = 180^\circ$
Resulting phase uncertainty	$ \arg(S_{11}) \leq 2.0^\circ \text{ to } 4 \text{ GHz}$
Offset length	$19.7\text{mm} \pm 0.04\text{mm}$

Load

Return loss	$ S_{11} \geq 40 \text{ dB to } 2.5 \text{ GHz}$ $ S_{11} \geq 38 \text{ dB, } 2.5 \text{ GHz to } 4 \text{ GHz}$
DC-Resistance	$R = 50\Omega \pm 0.5\Omega$
Power handling	$P_{\max} = 1.0\text{W} (0^\circ\text{C} - 50^\circ\text{C})$

Mechanical data

Mating cycles	min. 500
Coupling nut retention	$\geq 1000 \text{ N}$
Center contact captivation	$\geq 200 \text{ N}$
Coupling test torque	max. 35 Nm
Recommended torque	25 Nm to 30 Nm
Gauge	$1.47\text{mm} - 1.77\text{mm}$

Environmental data

Temperature range	$-65^\circ\text{C to } +85^\circ\text{C}$
2002/95/EC (RoHS)	compliant

Packing

Standard	1 pce in air cushion bag
Weight	332 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
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