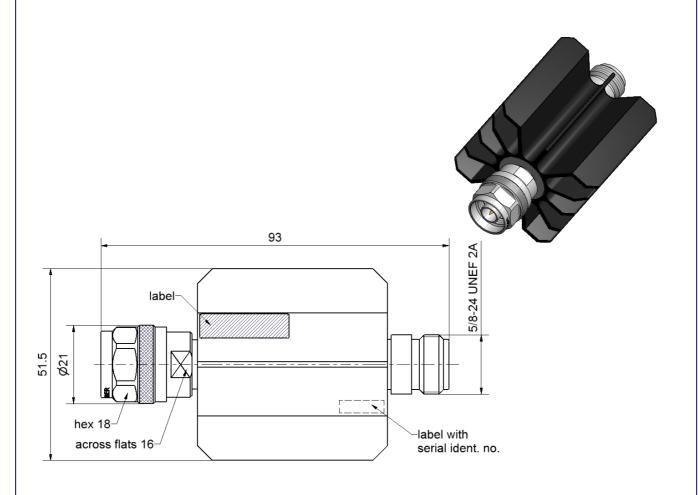
TECHNICAL DATA SHEET

Rosenberger®

N 50 Ω ATTENUATOR PLUG/JACK

53AS120-K03N3



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 - plug Center contact - jack Outer contact

Coupling nut Heatsinks

Dielectric Substrate

Material

Plating

Brass Gold, min. 1.27 µm, over nickel Beryllium copper Gold, min. 1.27 μ m, over nickel

Flash white bronze over silver(e.g. Optargen®) Brass Flash white bronze over silver(e.g. Optargen®) Brass Αl

Black anodized

PTFE

ALN

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TECHNICAL DATA SHEET



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N 50 Ω ATTENUATOR PLUG/JACK

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Electrical data

Impedance 50 Ω

Frequency DC to 10 GHz

Return loss \geq 26.4 dB, DC to 2 GHz \geq 21.2 dB, 2 GHz to 5 GHz

≥ 14.0 dB, 5 GHz to 10 GHz

Attenuation 3 dB

Tolerances $\leq \pm 0.3$ dB, DC to 2 GHz

 \leq \pm 0.5 dB, 2 GHz to 4 GHz \leq \pm 1.0 dB, 4 GHz to 10 GHz

 $\begin{array}{ll} \text{Center contact resistance} & \leq 1 \text{ m}\Omega \\ \text{Outer contact resistance} & \leq 0.25 \text{ m}\Omega \\ \text{Power handling} & 20 \text{ W at } 25^{\circ}\text{C} \\ \end{array}$

derated linearity to 0 Watts at 125°C

Mechanical data

 $\begin{array}{lll} \text{Mating cycles} & \text{min. 500} \\ \text{Coupling nut retention} & \geq 450 \text{ N} \\ \text{Center contact captivation} & \geq 28 \text{ N} \\ \text{Coupling test torque} & \text{max. 1.7 Nm} \\ \text{Recommended torque} & 0.7 \text{ Nm to 1.1 Nm} \\ \end{array}$

Environmental data

Temperature range -65°C to +125°C

2002/95/EC (RoHS) compliant

Tooling

N/A

Suitable cables

www.rosenberger.de

N/A

Packing

Standard 1 pce in air cushion bag

Weight 270 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	05/08/05	Frank Weiß	11/12/07		b00	07-0838	Kerstin Hobrak	11/12/07
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