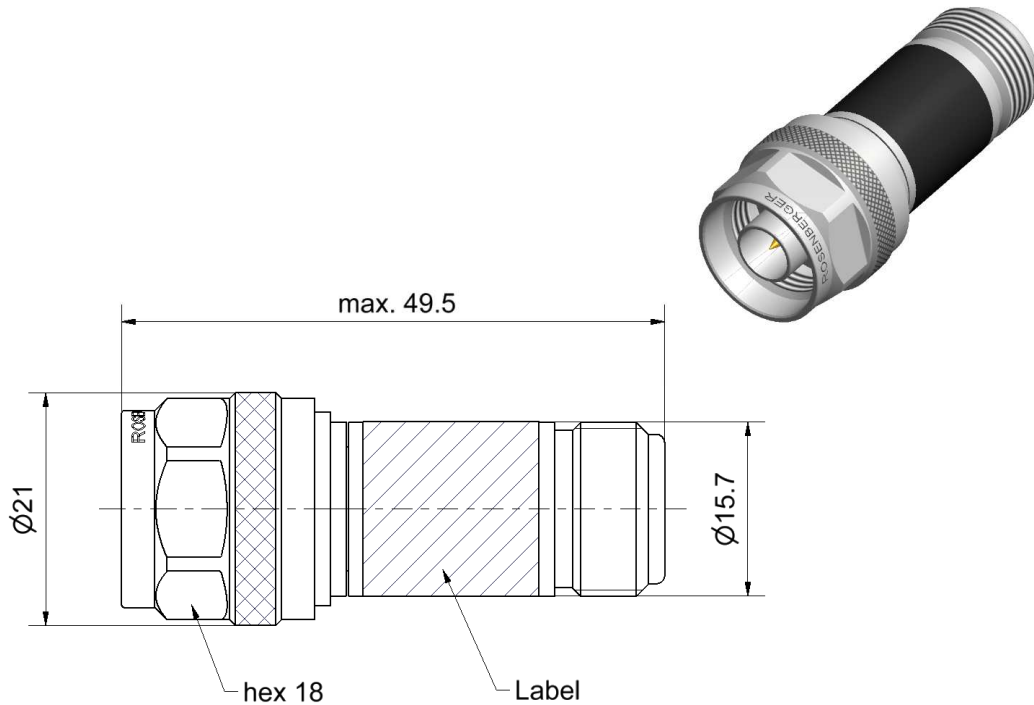


N 50 Ω

Attenuator
Plug/Jack

53AS102-K03N3



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

Interface

According to

IEC 61169-16

Documents

N/A

Material and plating

Connector parts

Center contact - plug
Center contact - jack
Outer contact
Coupling nut
Dielectric
Substrate

Material

Brass
CuBe
Brass
Brass
PTFE
Al₂O₃

Plating

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

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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger			
N 50 Ω		Attenuator Plug/Jack		53AS102-K03N3			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 12.4 GHz					
Return loss		≥ 26.4 dB, DC to 4 GHz					
		≥ 20.8 dB, 4 GHz to 10 GHz					
		≥ 19.1 dB, 10 to 12.4 GHz					
Attenuation		3 dB ± 0.3 dB, DC to 4 GHz					
		3 dB ± 0.6 dB, 4 GHz to 8 GHz					
		3 dB ± 1.0 dB, 8 GHz to 12.4 GHz					
Power handling		2 W at 25°C					
		derated linearity to 0 Watts at 125°C					
Mechanical data							
Mating cycles		≥ 500					
Coupling nut retention		≥ 450 N					
Center contact captivation		≥ 28 N					
Maximum torque		1.70 Nm					
Recommended torque		0.70 Nm to 1.10 Nm					
Environmental data							
Operating temperature range ¹		0 °C to +50 °C					
Storage temperature range		-40 °C to +85 °C					
RoHS		compliant					
¹ Temperature range over which these specifications are valid.							
Packing							
Standard		1 pce in bag					
Weight		67.0 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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