

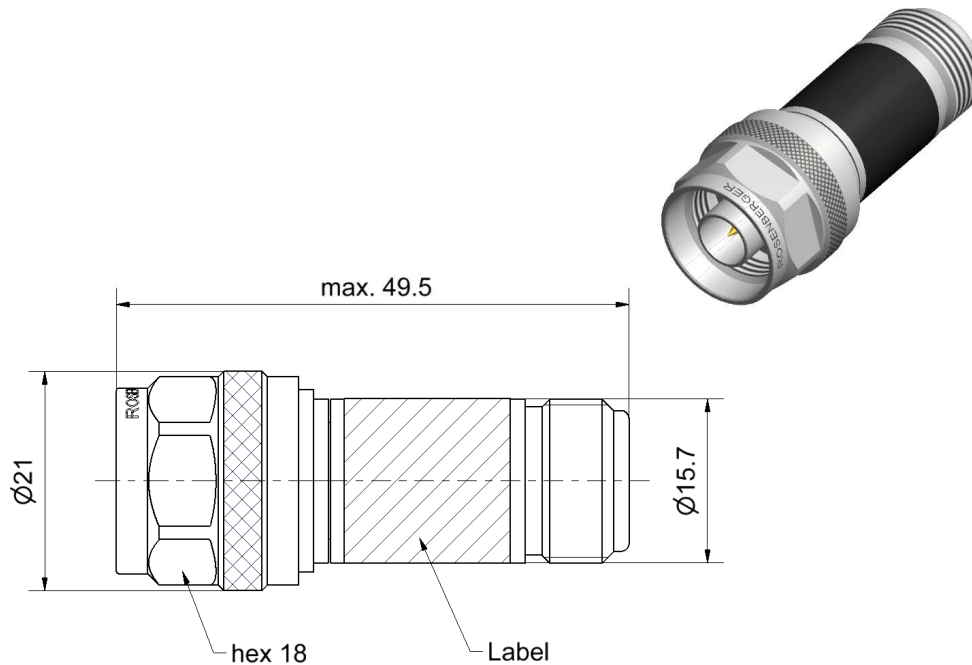
Technical Data Sheet

Rosenberger

N 50 Ω

Attenuator
Plug/Jack

53AS102-K10N3



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

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Technical Data Sheet				Rosenberger			
N 50 Ω		Attenuator Plug/Jack		53AS102-K10N3			
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		10 dB ± 0.3 dB, DC to 4 GHz					
		10 dB ± 0.6 dB, 4 GHz to 8 GHz					
		10 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					
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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