NF50 Adapter

Materials & Plating

Connector Parts	Material	Plating
Center contact	Beryllium copper	Gold, min. 1.27 µm, over chemical nickel
Outer contact	Stainless steel	Passivated
Dielectric	PS	

Maximum Ratings

Operating temperature	-55°C to 105°C
Storage temperature	-55°C to 105°C
Offset loss	700 MΩ/s
Electrical delay	83.0 ps
Offset Z0	50 Ω

Permanent damage may occur if any of these limits are exceeded

Interface

Frequency	DC - 9 GHz
Insertion loss	0.05 dB, typ. / 0.10 dB, max.
VSWR (:1) Max	
DC - 2 GHz	1.10 GHz
DC - 4 GHz	1.20 GHz
DC - 6 GHz	1.20 GHz

Electrical Data

Impedance	50 Ω
Frequency	DC to 9 GHz
Return loss	≥ 26 dB (DC - 9 GHz)
Insertion Loss	≤ 0.04 $x\ \sqrt{f}$(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 GΩ
Outer contact resistance	≤ 2.0 GΩ
Test voltage	1000 V rms
Working voltage	335 V rms
RF-leakage	≥ 100 dB up to 1 GHz

Mechanical Data

Mating cycles	≥ 500
Center contact captivation	≥ 27 N
Coupling test torque	1.70 Nm
Recommended torque	0.08 Nm to 1.10 Nm

Packing

Standard	1 piece in box
Weight	6.2 g / piece

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