

RF_35/09.14/6.2

Technical Data Sheet

F 75 Ω

Short Circuit Jack

Rosenberger

74K12S-001S3

Electrical data

Frequency range Return loss

Error from nominal phase²

DC to 6 GHz \leq 0.10 dB, DC to 4 GHz \leq 0.15 dB, 4 GHz to 6 GHz \leq 1.0°, DC to 4 GHz \leq 1.5°, 4 GHz to 6 GHz

² The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance.

Mechanical data Mating cycles Maximum torque Recommended torque Permitted male pin diameter³ Gauge

≥ 1000 6.78 Nm 2.00 Nm 0.76 mm to 0.86 mm 0.00 mm to 0.10 mm

³ Connecting a F plug with larger male pin diameter will damage female contact fingers of this Short circuit. Use "full range adaptor" 74S121-K22S3 instead.

General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

Offset Z_o / Impedance / Z_o Offset Delay Length (electrical) / Offset Length Offset Loss Loss Short Inductance⁴

75 Ω 53.370 ps 16.00 mm 2.40 GΩ/s 0.0148 dB/ √GHz

⁴ Short Inductances are determined individually for each Short circuit and are documented in a Calibration Certificate.

Environmental data	
Operating temperature range ⁵	+20 °C to +26 °C
Rated temperature range of use ⁶	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C

RoHS

compliant

⁵ Temperature range over which these specification are valid.

⁶ This range is underneath and above the operating temperature range, within the short circuit is fully functional and could be used without damage.

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F 75 Ω	Short Jack	Circuit			74K12S-001	S3	
Factory Calib Standard de issued repor standards ar Agilent/Keys Accredited C Not available	vration elivery for t ts individua re not avail re not avail re not avail re not avail re not avail elibration e.	al calibration resu able. Model base e & Schwarz and	ılts, tracea d standarc Anritsu co	ible to I definit mpatib	a Factory Calibration. Th Rosenberger standards tions are individually optin le VNA format. Rosenberger homepage.	s, national / inter	national
Calibration							
Recommenda	tion		12 mon	ths			
Packing Standard Weight			1 pce in 38.5 g/p				
part and no state	ement herein s		recommenda		edge, nothing is intended as rep nfringe existing patents. In the e		
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