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RF_35/09.14/6.2

Technical Data Sheet

F 75 Ω

Short Circuit

Rosenberger

74S12S-001S3

Electrical data

Frequency range Return loss

Error from nominal phase¹

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

¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance.

Mechanical data

Mating cycles Maximum torque Recommended torque Nominal pin diameter Gauge

≥ 1000 6.78 Nm 2.00 Nm 0.81 mm 0.00 mm to 0.10 mm

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 Inductance² 75 Ω 53.370 ps 16.00 mm 2.40 GΩ/s 0.0148 dB/ √GHz

² Short Inductances are determined individually for each Short circuit and are documented in a Calibration Certificate.

Environmental data	
Operating temperature range ³	+20 °C to +26 °C
Rated temperature range of use ⁴	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C

RoHS

compliant

³ Temperature range over which these specification are valid.

⁴ 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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Technical Data Sheet					Rosen	berge	er
F 75 Ω	Short Plug	Circuit			74S12S-001S	63	
Factory Calib Standard de issued repo standards a Agilent/Keys Accredited C Not availabl	bration elivery for t rts individua re not avail sight, Rohde calibration e.	al calibration resu able. Model base e & Schwarz and	ılts, tracea d standarc Anritsu co	ible to I definit mpatible	a Factory Calibration. The Rosenberger standards ons are individually optime VNA format.	, national / inter	national
Calibration	interval						
Recommenda	ation		12 mon	ths			
Packing Standard Weight			1 pce ir 43.5 g/p				
part and no state	ement herein s	i carefully compiled to shall be construed as nanges judged to be i	recommenda	ur knowle ation to ir	dge, nothing is intended as repr fringe existing patents. In the e	esentation or warran ffort to improve our	ty on our products,
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Marcel Panicke	08.08.18	Markus Müller	09.05.19	b00	19-0897	Marion Striegler	09.05.19

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