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RFB00035/12.20./6.4 Dies€

Technical Data Sheet			Rosenberger				
RPC-N 75 Ω	Open Circuit ^{Plug}		P5S12L-001S3				
Electrical of	lata						
Frequency ra Return loss		≤ 0.10 dB ≤ 0.15 dB ≤ 0.20 dB	DC to 18 GHz ≤ 0.10 dB, DC to 4 GHz ≤ 0.15 dB, 4 GHz to 8 GHz ≤ 0.20 dB, 8 GHz to 12 GHz ≤ 0.25 dB, 12 GHz to 18 GHz				
Error from no	ominal phase ¹	$\leq 3.0^{\circ}, 4.0^{\circ}$	\leq 1.5°, DC to 4 GHz \leq 3.0°, 4 GHz to 8 GHz \leq 4.0°, 8 GHz to 18 GHz				
¹ The nominal p	hase is defined by the Offset Del	lay, the Offset Loss	and the Fringing Capacitances.				
Mochanica	l data						
Mechanical data Mating cycles Maximum torque		≥ 500 1.70 Nm 1.10 Nm	1.70 Nm				
······································			to 5.36 mm				
For proper o of this calibra	ation standard. The differer	nt models, units) needs a model describing the electrical beh and terms used will depend on the VNA type sed on typical geometry and plating.				
For proper o of this calibra will have to b Offset Z _o / In Offset Delay	peration the vector network ation standard. The differer be entered into the VNA. Al npedance / Z _o trical) / Offset Length	nt models, units	and terms used will depend on the VNA type sed on typical geometry and plating.				
For proper o of this calibra will have to b Offset Z _o / In Offset Delay Length (elec Offset Loss Loss Fringing Cap	peration the vector network ation standard. The differer be entered into the VNA. Al npedance / Z _o trical) / Offset Length pacitances ²	nt models, units Il values are bas 75 Ω 41.095 ps 12.32 mm 1.20 GΩ/s 0.0057 dE	and terms used will depend on the VNA type sed on typical geometry and plating.				
For proper o of this calibra will have to b Offset Z _o / In Offset Delay Length (elec Offset Loss Loss Fringing Capa ² Fringing Capa Environme Operating te Rated temper	peration the vector network ation standard. The differer be entered into the VNA. Al npedance / Z _o trical) / Offset Length pacitances ² <i>citances are determined individue</i>	nt models, units Il values are bas 75 Ω 41.095 ps 12.32 mm 1.20 GΩ/s 0.0057 dE ally for each open c	and terms used will depend on the VNA type sed on typical geometry and plating. 3/√GHz rcuit and are documented in a Calibration Certificate. +26 °C +50 °C				
For proper o of this calibra will have to b Offset Z _o / In Offset Delay Length (elec Offset Loss Loss Fringing Capa ² Fringing Capa Departing te Rated temper	peration the vector network ation standard. The differer be entered into the VNA. Al npedance / Z _o trical) / Offset Length pacitances ² <i>citances are determined individua</i> ental data mperature range ³ erature range of use ⁴	nt models, units Il values are bas 75 Ω 41.095 ps 12.32 mm 1.20 GΩ/s 0.0057 dE ally for each open c + 20 °C to 0 °C to	and terms used will depend on the VNA type sed on typical geometry and plating. 3/√GHz rcuit and are documented in a Calibration Certificate. +26 °C +50 °C +85 °C				
For proper o of this calibra will have to b Offset Z _o / In Offset Delay Length (elec Offset Loss Loss Fringing Capa ² Fringing Capa ² Fringing Capa ² Fringing Capa ³ Temperature ⁴ This range is	peration the vector network ation standard. The differer be entered into the VNA. All npedance / Z _o trical) / Offset Length pacitances ² <i>citances are determined individua</i> ental data mperature range ³ erature range of use ⁴ perature range	nt models, units Il values are bas 75 Ω 41.095 ps 12.32 mm 1.20 GΩ/s 0.0057 dE ally for each open c + 20 °C to 0 °C to - 40 °C to compliant tions are valid.	and terms used will depend on the VNA type sed on typical geometry and plating. 3/√GHz rcuit and are documented in a Calibration Certificate. +26 °C +50 °C +85 °C				

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Technical Data Sheet

RPC-N 75 Ω Open Circuit

Rosenberger

P5S12L-001S3

Declaration of calibration options

Factory Calibration

Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, traceable to national / international standards. Model based standard definitions are individually optimized and reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

Accredited Calibration

Optional this calibration standard can be delivered with an Accredited Calibration (DAkkS) up to 12 GHz having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual calibration results in a complex format, traceable to national / international standards. Model based standard definitions are individually optimized and reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format as well as in a dense data set needed for data based standard definitions. The uncertainties are smaller than in a Factory Calibration.

For further, more detailed information see application note AN001 on the Rosenberger homepage.

Calibration	interval
ouns auon	

Recommendation

12 months

Packing	
Standard	
Weight	

1 pce in box 47.5 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.					

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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	Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
7.7	Marion Striegler	12.08.21	Lars Ramtke	22.04.22	b00	22-1011	David d'Argent	22.04.22
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