

RFB00035/12.20/6.4

Technical Data Sheet

RPC-1.35

Calibration Kit Jack

Rosenberger

P9K30R-MSOTD3

Material and plating

Connector parts Center conductor Outer conductor Bodv Dielectric Substrate

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Material CuBe CuBe or equiv. Aluminum PMP Al₂O₃

Plating Gold, min. 1.27 µm Gold, min. 1.27 µm black anodized

Electrical specifications

These electrical specifications are only valid when the specific VNA files or the specific S1P-files are used as standard definitions. They include measurement uncertainties as well as guard bands to cover some tear and wear of the calibration standards.

Residual System Data*	Frequency	Specification (plug and jack)		
Directivity	0.01 GHz to ≤ 40 GHz > 40 GHz to ≤ 80 GHz > 80 GHz to ≤ 90 GHz	≥ 33 dB ≥ 29 dB ≥ 26 dB		
Source Match	0.01 GHz to ≤ 30 GHz > 30 GHz to ≤ 60 GHz > 60 GHz to ≤ 80 GHz > 80 GHz to ≤ 90 GHz	≥ 32 dB ≥ 27 dB ≥ 24 dB ≥ 21 dB		
Reflection Tracking	0.01 GHz to $\leq 20 \text{ GHz}$ $> 20 \text{ GHz}$ to $\leq 40 \text{ GHz}$ $> 40 \text{ GHz}$ to $\leq 60 \text{ GHz}$ $> 60 \text{ GHz}$ to $\leq 80 \text{ GHz}$ $> 80 \text{ GHz}$ to $\leq 90 \text{ GHz}$	≤ 0.20 dB ≤ 0.25 dB ≤ 0.30 dB ≤ 0.45 dB ≤ 0.55 dB		

* Residual System Data are also called Effective System Data

<u>Thru</u>

Return loss	\geq 28 dB, DC to 10 GHz
	\geq 19 dB, 10 GHz to 50 GHz
	\geq 15 dB, 50 GHz to 90 GHz

Load

Return loss (typical values)	 ≥ 30 dB, DC to 10 GHz ≥ 24 dB, 10 GHz to 30 GHz ≥ 21 dB, 30 GHz to 40 GHz ≥ 18 dB, 40 GHz to 50 GHz ≥ 15 dB, 50 GHz to 90 GHz
DC Resistance	$50~\Omega\pm0.5~\Omega$
Power handling (at 25 °C, sea level)	\leq 0.5 W, derate by 0.005 W/K

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Technica	al Data S	Sheet			Ros	enl	berge)r
RPC-1.35	Calibration Kit Jack			P9K30R-MSOTD3				
Mechanical Mating cycles Maximum toro Recommende Gauge General sta The different the VNA. All v	data que ed torque ndard def models, uni values are b	f initions its, and terms use based on typical g	 ≥ 3000 1.65 Nm 0.90 Nm 0.003 mm to 0.05 mm where the state of the sta					
Thru Offset Z _o / Im Offset Delay Length (electr Offset Loss Loss Line Loss @	oedance / 2 ical) / Offse 1GHz	Z₀ et Length	50 Ω 75.852 ps 22.74 mm 5.95 GΩ/s 0.0784 dB/ √GHz 0.0012 dB/mm					
Environmen Operating ten Rated temper Storage temp RoHS	mental datatemperature range1+20 °C to +26 °Coperature range of use20 °C to +50 °Cemperature range-40 °C to +85 °Ccompliant							
 ¹ Temperature range over which these specifications are valid. ² This range is underneath and above the operating temperature range, within the calibration kit is fully functional and could be used without damage Declaration of Calibration options Factory Calibration Standard delivery for this kit includes a Factory Calibration. All calibration standards are reported in a Calibration Certificate with their individual calibration results, traceable to national / international standards. Data based definitions of the calibration standards are reported as data files for Vector Network Anaylzer Families PNA (Keysight/Agilent) and ZVA (Rohde&Schwarz) as well as S1P-files for Open, Short and Load calibration standards. 								
Accredited Ca Not available.	alibration	d information coo	application	note	ANOO1 on the Bo	conhorao	rbomonogo	
For further, more detailed information see application note AN001 on the Rosenberger homepage. Calibration Interval Recommendation 12 months								
Packing Standard Weight			1 pce in 32.9 g/p	bag ce				
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.								
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