

35/09.14/6.2

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Technical Data Sheet

RPC-3.50

Calibration Load

Rosenberger

03S150-C10S3

Electrical data Frequency range

Return loss

DC to 26.5 GHz \geq 40 dB, DC to 4 GHz \geq 35 dB, 4 GHz to 8 GHz \geq 30 dB, 8 GHz to 26.5 GHz 50 $\Omega \pm 0.25 \Omega$ \leq 0.5 W

DC Resistance Power handling

Mechanical data

Mating cycles Maximum torque Recommended torque Gauge ≥ 500 1.70 Nm 0.90 Nm 0.00 mm to 0.04 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 50 Ω 0.0000 ps 0.00 mm 0.00 GΩ/s 0.0000 dB/√GHz

Environmental data

Operating temperature range¹ Rated temperature range of use² Storage temperature range +20 °C to +26 °C 0 °C to +50 °C -40 °C to +85 °C

RoHS

compliant

¹ Temperature range over which these specification are valid.

² This range is underneath and above the operating temperature range, within the calibration load is fully functional and could be used without damage.

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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 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) 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 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 Recommendation	12 months
Packing Standard Weight	1 pce in box 8.8 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.

Draft	Date	Approved	Date		Rev.	Engineering change number	Name		Date
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