



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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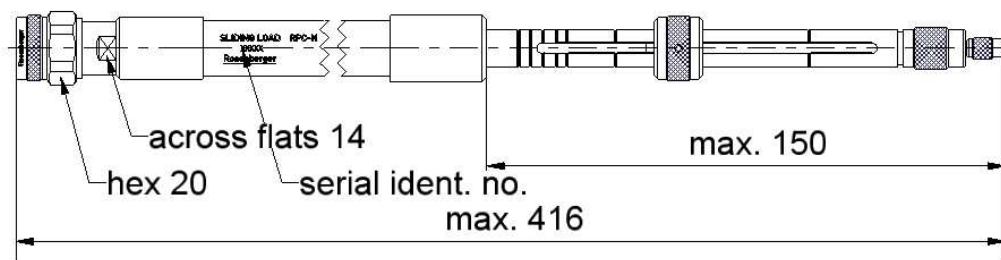
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RPC-N  
50 Ω

Sliding Load  
Plug

**05S150-G300**



All dimensions are in mm; tolerances according to ISO 2768 m-H

**Interface**

According to IEC 61169-16

**Documents**

Application note AN001 "Calibration Services"

**Material and plating**

**Connector parts**

- Center conductor
- Outer conductor
- Coupling nut
- Body

**Material**

- CuBe
- Brass
- Stainless steel
- Aluminum

**Plating**

- Gold, min. 1.27 μm, over nickel
- Gold, min. 1.27 μm, over nickel
- Passivated
- black anodized

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RF\_35/09;14/6.2

**Electrical data**

|                                   |   |
|-----------------------------------|---|
| Frequency range                   | 2 GHz to 18 GHz                                     |
| Return loss                       | ≥ 35 dB, 2 GHz to 18 GHz                            |
| Power handling                    | ≤ 1 W   |
| Air line accuracy                 | ≥ 55 dB   |
| Repeatability of sliding position | ≥ 65 dB, 2 GHz to 8 GHz<br>≥ 60 dB, 8 GHz to 18 GHz |

**Mechanical data**

|                    |            |
|--------------------|------------|
| Mating cycles      | ≥ 500      |
| Maximum torque     | 1.70 Nm    |
| Recommended torque | 1.10 Nm    |
| Gauge              | adjustable |

**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 / $Z_o$ | 50 Ω  |
| Min. Frequency                   | 2 GHz |

**Environmental data**

|   |                  |
|---|------------------|
| Operating temperature range <sup>1</sup>    | +20 °C to +26 °C |
| Rated temperature range of use <sup>2</sup> | 0 °C to +50 °C   |
| Storage temperature range                   | -40 °C to +85 °C |

|      |           |
|------|-----------|
| RoHS | compliant |
|------|-----------|

<sup>1</sup> Temperature range over which these specification are valid.

<sup>2</sup> This range is underneath and above the operating temperature range, within the sliding load is fully functional and could be used without damage.

# Technical Data Sheet

# Rosenberger

RPC-N  
50 Ω

Sliding Load  
Plug

**05S150-G300**

## 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

Not available.

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

## Calibration interval

Recommendation 12 months

## Packing

Standard 1 pce in pipe  
Weight 320 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     |
|----------------|----------|--------------|----------|------|---------------------------|------------------|----------|
| Kerstin Herzog | 02.11.05 | Martin Moder | 29.01.15 | e00  | 14-1492                   | Herbert Babinger | 29.01.15 |

|  |   |               |
|--|---|---------------|
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|--|---|---------------|