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RF_35/09.14/6.2

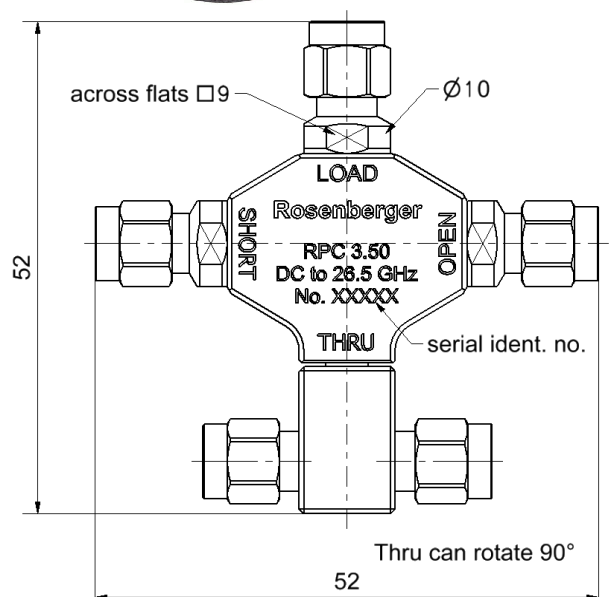
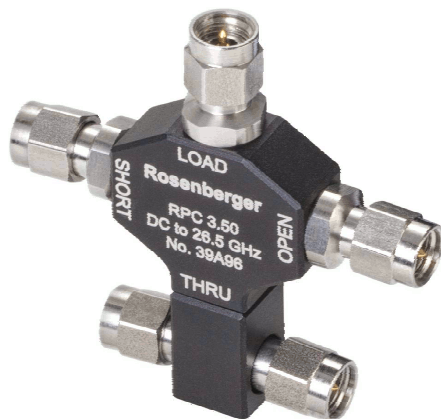
Technical Data Sheet

Rosenberger

RPC-3.50

Calibration Kit
Plug

03S30R-MSOTS3



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

Interface

According to
Mechanically compatible with

IEC 61169-23
RPC-2.92 and SMA

Contents and Documentation

This kit is delivered with

- **Standard Definitions Card**
Printed Standard Definitions that can be used on nearly all Vector Network Analyzers
- **Test Results Documentation**
- **Hard Shell Case**

Material and plating

Connector parts

Center conductor
Outer conductor
Coupling nut
Body
Dielectric
Substrate

Material

Beryllium copper
Stainless steel
Stainless steel
Aluminum
PS
Al₂O₃

Plating

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

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Technical Data Sheet		Rosenberger
RPC-3.50	Calibration Kit Plug	03S30R-MSOTS3
Electrical data Frequency rangeDC to 26.5 GHz Thru Return loss ≥ 34 dB, DC to 4 GHz ≥ 32 dB, 4 GHz to 8 GHz ≥ 30 dB, 8 GHz to 26.5 GHz Open Error from nominal phase¹ ≤ 1.0°, DC to 4 GHz ≤ 2.0°, 4 GHz to 8 GHz ≤ 3.0°, 8 GHz to 26.5 GHz Short Error from nominal phase² ≤ 1.0°, DC to 4 GHz ≤ 2.0°, 4 GHz to 8 GHz ≤ 3.0°, 8 GHz to 26.5 GHz Load Return loss ≥ 40.0 dB, DC to 4 GHz ≥ 35.0 dB, 4 GHz to 8 GHz ≥ 30.0 dB, 8 GHz to 26.5 GHz DC Resistance50 Ω ± 0.5 Ω Power handling≤ 0.5 W ¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances ² The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance Mechanical data Mating cycles≥ 500 Maximum torque1.70 Nm Recommended torque0.90 Nm Gauge0.00 mm to 0.08 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. Thru Offset Z₀ / Impedance / Z₀50 Ω Offset Delay84.058 ps Length (electrical) / Offset Length25.20 mm Offset Loss2.51 GΩ/s Loss0.0183 dB/√GHz Line Loss @ 1GHz0.0007 dB/mm Open Offset Z₀ / Impedance / Z₀50 Ω Offset Delay33.356 ps Length (electrical) / Offset Length10.00 mm Offset Loss2.20 GΩ/s Loss0.0127 dB/√GHz Fringing Capacitances C₀ = -17.000 x 10⁻¹⁵ F / -17.000 fF C₁ = -2000.0 x 10⁻²⁷ F/Hz / -2.0000 fF /GHz C₂ = 147.00 x 10⁻³⁶ F/Hz² / 0.1470 fF /GHz² C₃ = -3.0000 x 10⁻⁴⁵ F/Hz³ / -0.0030 fF /GHz³		
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de		Tel. : +49 8684 18-0 Email : info@rosenberger.de
		Page 2 / 3

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Short Offset Z_o / Impedance / Z_o Offset Delay Length (electrical) / Offset Length Offset Loss Loss Short Inductance 50 Ω 33.356 ps 10.00 mm 2.36 GΩ/s 0.0127 dB/$\sqrt{\text{GHz}}$ $L_0 = -39.000 \times 10^{-12} \text{ H}$ / -39.000 pH $L_1 = 2200.0 \times 10^{-24} \text{ H/Hz}$ / 2.2000 pH /GHz $L_2 = -150.00 \times 10^{-33} \text{ H/Hz}^2$ / -0.1500 pH /GHz² $L_3 = 3.0000 \times 10^{-42} \text{ H/Hz}^3$ / 0.0030 pH /GHz³ <tr><td colspan="8"> Load Offset Z_o / Impedance / Z_o Offset Delay Length (electrical) / Offset Length Offset Loss Loss 50 Ω 0.0000 ps 0.000 mm 0.00 GΩ/s 0.0000 dB/$\sqrt{\text{GHz}}$ <tr><td colspan="8"> Environmental data Operating temperature range³ Rated temperature range of use⁴ Storage temperature range RoHS + 20 °C to +26 °C 0 °C to +50 °C - 40 °C to +85 °C compliant <tr><td colspan="8"> ³ Temperature range over which these specifications are valid. ⁴ This range is underneath and above the operating temperature range, within the calibration kit is fully functional and could be used without damage <tr><td colspan="8"> Declaration of documentation Standard delivery for this kit includes Test Results. 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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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