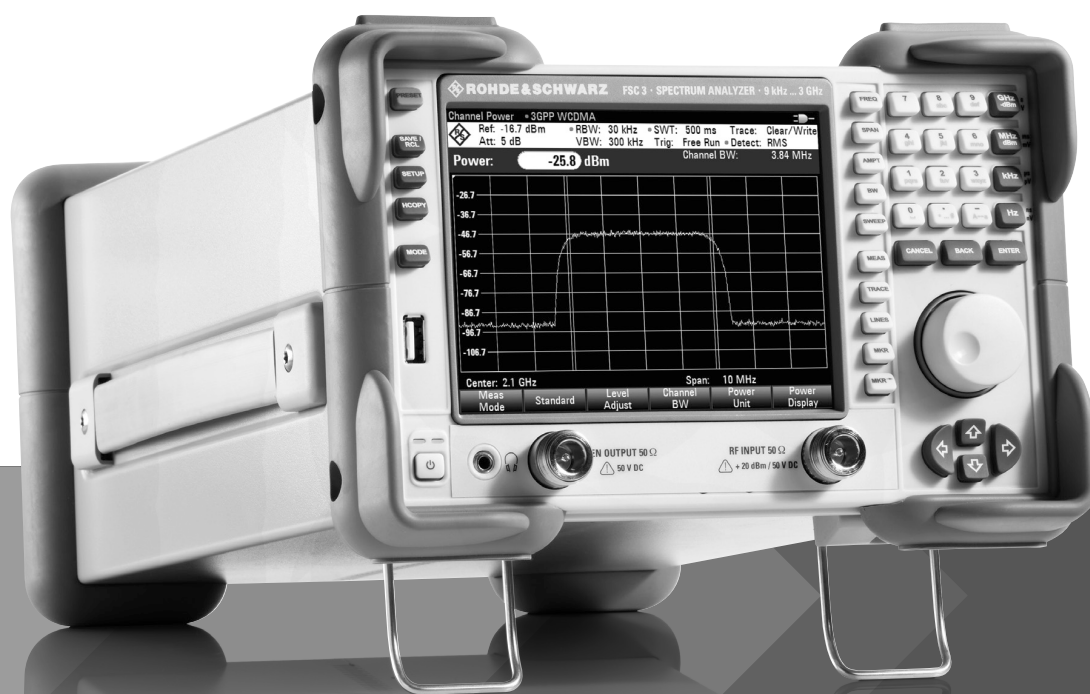


R&S® FSC SPECTRUM ANALYZER

Specifications



Specifications
Version 05.00

ROHDE & SCHWARZ
Make ideas real



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Definitions

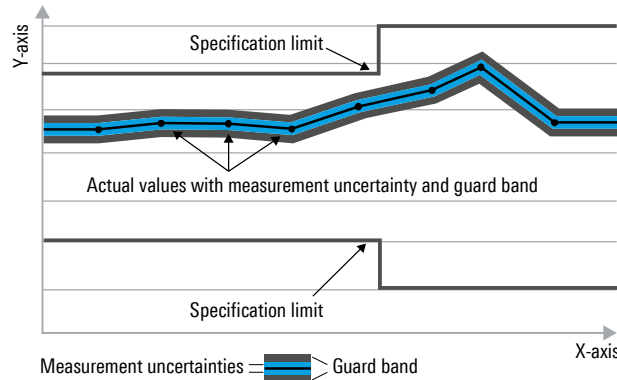
General

Product data applies under the following conditions:

- Three hours of storage at ambient temperature followed by 30 minutes of warm-up operation
- Specified environmental conditions met
- Recommended calibration interval adhered to
- All internal automatic adjustments performed, if applicable

Specifications with limits

Represent warranted product performance by means of a range of values for the specified parameter. These specifications are marked with limiting symbols such as $<$, \leq , $>$, \geq , \pm or descriptions such as maximum, limit of, minimum. Compliance is ensured by testing or is derived from the design. Test limits are narrowed by guard bands to take into account measurement uncertainties, drift and aging, if applicable.



Non-traceable specifications with limits (n. trc.)

Represent product performance that is specified and tested as described under "Specifications with limits" above. However, product performance in this case cannot be warranted due to the lack of measuring equipment traceable to national metrology standards. In this case, measurements are referenced to standards used in the Rohde & Schwarz laboratories.

Specifications without limits

Represent warranted product performance for the specified parameter. These specifications are not specially marked and represent values with no or negligible deviations from the given value, e.g. dimensions or resolution of a setting parameter. Compliance is ensured by design.

Typical data (typ.)

Characterizes product performance by means of representative information for the given parameter. When marked with $<$, $>$ or as a range, it represents the performance met by approximately 80 % of the instruments at production time. Otherwise, it represents the mean value.

Nominal values (nom.)

Characterize product performance by means of a representative value for the given parameter, e.g. nominal impedance. In contrast to typical data, a statistical evaluation does not take place and the parameter is not tested during production.

Measured values (meas.)

Characterize expected product performance by means of measurement results gained from individual samples.

Uncertainties

Represent limits of measurement uncertainty for a given measurand. Uncertainty is defined with a coverage factor of 2 and has been calculated in line with the rules of the Guide to the Expression of Uncertainty in Measurement (GUM), taking into account environmental conditions, aging, wear and tear.

Device settings and GUI parameters are designated with the format "parameter: value".

Non-traceable specifications with limits, typical data as well as nominal and measured values are not warranted by Rohde & Schwarz.

In line with the 3GPP standard, chip rates are specified in million chips per second (Mcps), whereas bit rates and symbol rates are specified in billion bit per second (Gbps), million bit per second (Mbps), thousand bit per second (kbps), million symbols per second (Msps) or thousand symbols per second (ksps), and sample rates are specified in million samples per second (Msample/s). Gbps, Mcps, Mbps, Msps, kbps, ksps and Msample/s are not SI units.

Base unit

Frequency

| | | |
|----------------------|----------------|----------------|
| Frequency range | models .03/.13 | 9 kHz to 3 GHz |
| | models .06/.16 | 9 kHz to 6 GHz |
| Frequency resolution | | 1 Hz |

| | | |
|---|------------------|--|
| Reference frequency, internal, nominal | | |
| Aging per year | | 1×10^{-6} |
| Temperature drift | 0 °C to +30 °C | 1×10^{-6} |
| | +30 °C to +50 °C | 3×10^{-6} |
| Achievable initial adjustment accuracy | | 5×10^{-7} |
| Total reference uncertainty | | (time since last adjustment × aging rate) + temperature drift + calibration accuracy |

| | | |
|-----------------------------------|-------------|--|
| Frequency readout | | |
| Marker resolution | | 0.1 Hz |
| Uncertainty | | $\pm(\text{marker frequency} \times \text{reference uncertainty} + 10\% \times \text{resolution bandwidth} + \frac{1}{2}(\text{span}/(\text{sweep points} - 1)) + 1 \text{ Hz})$ |
| Number of sweep (trace) points | | 631 |
| Marker tuning frequency step size | | span/630 |
| Frequency counter resolution | | 0.1 Hz |
| Count uncertainty | S/N > 25 dB | $\pm(\text{frequency} \times \text{reference uncertainty} + \frac{1}{2}(\text{last digit}))$ |
| Frequency span | | |
| Span setting uncertainty | | $\pm(\text{span}/630)$ |

| | | |
|---|-----------------------------|--|
| Spectral purity, SSB phase noise | f = 500 MHz, carrier offset | |
| | 30 kHz | < -95 dBc (1 Hz), -105 dBc (1 Hz) (typ.) |
| | 100 kHz | < -100 dBc (1 Hz), -110 dBc (1 Hz) (typ.) |
| | 1 MHz | < -120 dBc (1 Hz), -127 dBc (1 Hz) (typ.) |

Sweep time

| | | |
|-------------|------------------------|----------------------------------|
| Sweep time | span = 0 Hz | 200 μs to 100 s |
| | 10 Hz ≤ span ≤ 600 MHz | 20 ms to 1000 s |
| | span > 600 MHz | (20 ms × span/600 MHz) to 1000 s |
| Uncertainty | span = 0 Hz | 1 % (nom.) |
| | span ≥ 10 Hz | 3 % (nom.) |

Bandwidths

| | | |
|------------------------------------|-----------------------|------------------------------------|
| Resolution bandwidths (RBW) | | |
| Range | -3 dB bandwidth | 10 Hz to 3 MHz in 1/3 sequence |
| Bandwidth accuracy | 10 Hz ≤ RBW ≤ 300 kHz | < 5 % (nom.) |
| | RBW > 300 kHz | < 10 % (nom.) |
| Selectivity | 60 dB:3 dB | < 5 (Gaussian type filters) (nom.) |
| Video filters | | |
| Range | -3 dB bandwidth | 10 Hz to 3 MHz in 1/3 sequence |

Level

| | | |
|--|--|---|
| Display range | | displayed noise floor to +30 dBm |
| Maximum rated input level with RF attenuation ≥ 10 dB | | |
| DC voltage | | 50 V |
| CW RF power | | 30 dBm (= 1 W) |
| Peak RF power | duration < 3 s | 33 dBm (= 2 W) |
| Maximum pulse voltage | | 150 V |
| Maximum pulse energy | pulse width: 10 μ s | 10 mWs |
| Maximum rated input level with RF attenuation < 10 dB | | |
| DC voltage | | 50 V |
| CW RF power | | 20 dBm (= 100 mW) |
| Peak RF power | duration < 3 s | 23 dBm (= 200 mW) |
| Maximum pulse voltage | | 50 V |
| Maximum pulse energy | pulse width: 10 μ s | 1 mWs |
| Intermodulation | | |
| Third order intermodulation (TOI), nominal values | intermodulation-free dynamic range, signal level: 2×-20 dBm, RF attenuation = 0 dB, without RF preamplifier (R&S [®] FSC-B22 option) or RF preamplifier: off | |
| | $f_{in} < 300$ MHz | > 54 dBc (TOI > +7 dBm +11 dBm (typ.)) |
| | $300 \text{ MHz} \leq f_{in} < 3.6$ GHz | > 60 dBc (TOI > +10 dBm +15 dBm (typ.)) |
| | $3.6 \text{ GHz} \leq f_{in} \leq 6$ GHz | > 46 dBc (TOI > +3 dBm +10 dBm (typ.)) |
| | signal level: 2×-40 dBm, RF attenuation = 0 dB, RF preamplifier (R&S [®] FSC-B22 option): on | |
| | $f_{in} < 300$ MHz | > 50 dBc (TOI = -15 dBm) |
| $300 \text{ MHz} \leq f_{in} \leq 6$ GHz | > 56 dBc (TOI = -12 dBm) | |
| Second harmonic intercept (SHI), nominal values | RF attenuation = 0 dB, without RF preamplifier (R&S [®] FSC-B22 option) or RF preamplifier: off | |
| | $f_{in} = 20$ MHz to 1.5 GHz | +40 dBm |
| | $f_{in} = 1.5$ GHz to 3 GHz | +30 dBm |
| | RF attenuation 0 dB, RF preamplifier (R&S [®] FSC-B22 option): on | |
| $f_{in} = 100$ MHz to 3 GHz | 0 dBm | |
| Displayed average noise level | RF attenuation 0 dB, termination 50 Ω , RBW = 100 Hz, VBW = 10 Hz, sample detector, log scaling, tracking generator: off, normalized to 1 Hz, without RF preamplifier (R&S [®] FSC-B22 option) or RF preamplifier: off | |
| | 9 kHz to 100 kHz | < -108 dBm, -118 dBm (typ.) |
| | 100 kHz to 1 MHz | < -115 dBm, -125 dBm (typ.) |
| | 1 MHz to 10 MHz | < -136 dBm, -144 dBm (typ.) |
| | 10 MHz to 2 GHz | < -141 dBm, -146 dBm (typ.) |
| | 2 GHz to 3.6 GHz | < -138 dBm, -143 dBm (typ.) |
| | 3.6 GHz to 5 GHz | < -142 dBm, -146 dBm (typ.) |
| | 5 GHz to 6 GHz | < -140 dBm, -144 dBm (typ.) |
| | RF attenuation 0 dB, termination 50 Ω , RBW = 100 Hz, VBW = 10 Hz, sample detector, log scaling, tracking generator: off, normalized to 1 Hz, RF preamplifier (R&S [®] FSC-B22 option): on | |
| | 100 kHz to 1 MHz | < -133 dBm, -143 dBm (typ.) |
| | 1 MHz to 10 MHz | < -157 dBm, -161 dBm (typ.) |
| | 10 MHz to 1 GHz | < -161 dBm, -165 dBm (typ.) |
| | 1 GHz to 2 GHz | < -159 dBm, -163 dBm (typ.) |
| | 2 GHz to 5 GHz | < -155 dBm, -159 dBm (typ.) |
| 5 GHz to 6 GHz | < -151 dBm, -155 dBm (typ.) | |

| Immunity to interference, nominal values | | |
|---|---|---------------------------|
| Image frequencies | $f_{in} - 2 \times 21.4 \text{ MHz}$ | < -70 dBc, -80 dBc (typ.) |
| | $f_{in} - 2 \times 831.4 \text{ MHz}$ | < -70 dBc, -90 dBc (typ.) |
| | $f_{in} - 2 \times 4881 \text{ MHz}$ | -60 dBc |
| Intermediate frequencies | 21.4 MHz, 831.4 MHz, 4881.4 MHz | -60 dBc, -80 dBc (typ.) |
| | 8931.4 MHz | -50 dBc |
| Other interfering signals, signal level – RF attenuation < -20 dBm | $f \leq 3.6 \text{ GHz}$, spurious at $f_{in} - 2440.7 \text{ MHz}$ | < -60 dBc |
| | $3.6 \text{ GHz} < f \leq 6 \text{ GHz}$, spurious at $f_{in} - 4465.7 \text{ MHz}$ | < -60 dBc |
| | $f \leq 3.6 \text{ GHz}$ | |
| Other interfering signals, related to local oscillators | $\Delta f < 300 \text{ kHz}$ | -60 dBc |
| | $\Delta f \geq 300 \text{ kHz}$ | < -60 dBc |
| | $f > 3.6 \text{ GHz}$ | |
| | $\Delta f < 300 \text{ kHz}$ | -54 dBc |
| | $\Delta f \geq 300 \text{ kHz}$ | < -54 dBc |
| Residual spurious response | $f = \text{receive frequency}$ | |
| | input matched with 50 Ω , without input signal, RBW $\leq 30 \text{ kHz}$, $f \geq 3 \text{ MHz}$, RF attenuation = 0 dB, tracking generator: off | < -90 dBm |

| Level display | | |
|----------------------------------|--|--|
| Logarithmic level axis | | 1/2/5/10/20/50/100 dB, 10 divisions |
| Linear level axis | | 0 % to 100 %, 10 divisions |
| Number of traces | | 2 |
| Trace detectors | | Max. peak, min. peak, auto peak, sample, RMS |
| Trace functions | | clear/write, max. hold, min. hold, average, view |
| Setting range of reference level | | -80 dBm to +30 dBm |
| Units of level axis | | dBm, dBmV, dB μ V, V, W |

| Level measurement uncertainty | | |
|--|--|--|
| Absolute level uncertainty at 100 MHz | +20 °C to +30 °C | $\pm 0.3 \text{ dB}$ ($\sigma = 0.1 \text{ dB}$) |
| Frequency response (+20 °C to +30 °C) | $9 \text{ kHz} \leq f < 10 \text{ MHz}$ | $\pm 1.5 \text{ dB}$ (nom.) |
| | $10 \text{ MHz} \leq f \leq 3.6 \text{ GHz}$ | $\pm 1 \text{ dB}$ ($\sigma = 0.33 \text{ dB}$) |
| | $3.6 \text{ GHz} < f \leq 6 \text{ GHz}$ | $\pm 1.5 \text{ dB}$ ($\sigma = 0.5 \text{ dB}$) |
| Attenuator uncertainty | | $\pm 0.3 \text{ dB}$ ($\sigma = 0.1 \text{ dB}$) |
| Uncertainty of reference level setting | | $\pm 0.1 \text{ dB}$ (nom.) |
| Display nonlinearity | S/N > 16 dB, 0 dB to -50 dB, logarithmic level display | $\pm 0.2 \text{ dB}$ ($\sigma = 0.067 \text{ dB}$) |
| Bandwidth switching uncertainty | reference: RBW = 10 kHz | $\pm 0.1 \text{ dB}$ (nom.) |
| Total measurement uncertainty | 95 % confidence level, +20 °C to +30 °C, S/N > 16 dB, 0 dB to -50 dB below reference level, RF attenuation auto | |
| | $10 \text{ MHz} < f \leq 3.6 \text{ GHz}$ | $\pm 1 \text{ dB}$, $\pm 0.5 \text{ dB}$ (typ.) |
| | $3.6 \text{ GHz} < f \leq 6 \text{ GHz}$ | $\pm 1.5 \text{ dB}$, $\pm 1 \text{ dB}$ (typ.) |

Trigger functions

| Trigger | | |
|------------------------|-----------------------------------|---------------------------|
| Trigger source | | free run, video, external |
| External trigger level | low \rightarrow high transition | 2.4 V (nom.) |
| | high \rightarrow low transition | 0.7 V (nom.) |

Tracking generator (models .13/.16 only)

| | | |
|-------------------------------|--|-----------------------------|
| Frequency range | model .13 | 100 kHz to 3 GHz |
| | model .16 | 100 kHz to 6 GHz |
| Connector | | N female, 50 Ω |
| VSWR | 100 kHz ≤ f ≤ 1 GHz | < 1.5 (nom.) |
| | 1 GHz < f ≤ 3 GHz | < 2 (nom.) |
| | 3 GHz < f ≤ 6 GHz (model .16 only) | < 2 (nom.) |
| Output level | tracking generator attenuation = 0 dB | 0 dBm (nom.) |
| Tracking generator attenuator | | 0 dB to 40 dB in 1 dB steps |
| Dynamic range | RF attenuation = 0 dB, tracking generator attenuation = 10 dB, RBW = 1 kHz | |
| | 100 kHz ≤ f < 300 kHz | > 60 dB, 80 dB (typ.) |
| | 300 kHz ≤ f < 3 GHz | > 70 dB, 90 dB (typ.) |
| | 3 GHz ≤ f < 6 GHz (model .16 only) | > 70 dB, 90 dB (typ.) |
| Reverse power | | |
| DC voltage | | 50 V |
| CW RF power | | +20 dBm (= 0.1 W) |
| Maximum pulse voltage | | 50 V |
| Maximum pulse energy (10 μs) | | 1 mWs |

Inputs and outputs

| | | |
|---|-------------------------|---|
| RF input | | |
| Impedance | | 50 Ω |
| Connector | | N female |
| VSWR | 100 kHz ≤ f ≤ 1 GHz | < 1.5 (nom.) |
| | 1 GHz < f ≤ 6 GHz | < 2 (nom.) |
| Setting range of input attenuator | | 0 dB to 40 dB in 5 dB steps |
| RF preamplifier gain | with R&S®FSC-B22 option | 20 dB (nom.) |
| AF output | | |
| AF demodulation types | | AM and FM |
| Connector | | 3.5 mm mini jack |
| Output impedance | | 32 Ω (nom.) |
| Voltage (open circuit) | | V (RMS) adjustable from 0 V to > 100 mV |
| USB interface | | |
| Front panel | | USB host interface, version 1.1 |
| Connector | | USB type A plug, version 1.1 |
| Memory sticks supported | | ≤ 4 Gbyte, USB version 1.1 or 2.0 |
| Rear panel | | USB device interface, version 1.1 |
| Connector | | USB type B plug, version 1.1 |
| External reference, external trigger | | |
| Connector | | BNC female, 50 Ω |
| Mode | selectable | external reference, external trigger |
| External reference input | required level | 0 dBm |
| | frequency | 10 MHz |
| External trigger threshold | low → high transition | 2.4 V (nom.) |
| | high → low transition | 0.7 V (nom.) |
| IF out | | |
| Connector | | BNC female, 50 Ω |
| Frequency | | 21.4 MHz |
| DC supply input | | |
| Connector | | 5 mm DIN 45323 female |
| Input voltage range | | 14 V to 16 V (nom.) |
| Input current | | 0.9 A to 0.7 A |

General data

| | | |
|---------------------|-------------------------------------|---|
| Power supply | | |
| AC supply | input specifications | 100 V to 240 V AC, 50 Hz to 60 Hz, 400 Hz, 130 VA |
| DC supply | input specifications | 14 V to 16 V, 0.9 A to 0.7 A (nom.) |
| Power consumption | | 12 W (nom.) |
| Safety | | in line with IEC 61010-1, EN 61010-1, CAN/CSA C22.2 No. 61010-1-04, UL61010-1 |
| Test marks | | VDE, cCSA _{US} |
| EU legislation | for details, see user documentation | EU: in line with Data Act – Regulation (EU) 2023/2854 |

| | | |
|------------------------------|--------------------------------------|--|
| Manual operation | | |
| Languages | | Chinese, English, French, German, Italian, Hungarian, Japanese, Korean, Portuguese, Russian, Spanish |
| Remote control | | |
| Command set | | SCPI 1997.0 |
| LAN interface | | 10BASE-T/100BASE-T, RJ-45 |
| USB interface | rear panel | USB device, type B |
| Display | | |
| Type | | 14.5 cm (5.7") LCD TFT color |
| Resolution | | 640 × 480 pixel |
| Audio | | |
| Speaker | | internal |
| Mass memory | | |
| Mass memory | | flash memory (internal) USB flash drive (not supplied) |
| Data storage | internal | > 256 instrument settings and traces |
| | external, on 1 Gbyte USB flash drive | > 5000 instrument settings and traces |
| Temperature | | |
| | operating temperature range | +0 °C to +50 °C |
| | permissible temperature range | +0 °C to +55 °C |
| | storage temperature range | -40 °C to +70 °C |
| Climatic loading | relative humidity | +25 °C/+40 °C at 85 % relative humidity (IEC 60068-2-30) |
| Mechanical resistance | | |
| Vibration | sinusoidal | IEC 60068-2-6 |
| | random | IEC 60068-2-64 |
| Shock | | 40 g shock spectrum, in line with MIL-STD-810E, method 516.4, procedure 1, IEC 60068-2-27 |
| EMC | | |
| | | in line with EMC Directive 2014/30/EU including: <ul style="list-style-type: none"> • IEC/EN 61326-1 ^{1,2} • IEC/EN 61326-2-1 • CISPR 11/EN 55011 ¹ • IEC/EN 61000-3-2 • IEC/EN 61000-3-3 |

| | | |
|------------------------------|-----------|--|
| Dimensions and weight | | |
| Dimensions | W × H × D | 233 mm × 158.1 mm × 350 mm (9.2 in × 6.2 in × 13.8 in) |
| Weight | | 4.5 kg (9.9 lb) |

| | | |
|---|--|--------|
| Recommended calibration interval | | 1 year |
|---|--|--------|

¹ RF emission in line with EN 55011 class A, operation in residential, commercial and business areas or in small-size companies is not covered. Thus, the instrument may not be operated in residential, commercial and business areas or in small-size companies, unless additional measures are taken to ensure that EN 55011 class B is complied with.

² Immunity test requirement for industrial environment (EN 61326 table 2).

Ordering information

| Designation | Type | Order No. |
|--|----------|--------------|
| Spectrum analyzer, 9 kHz to 3 GHz | R&S®FSC3 | 1314.3006.03 |
| Spectrum analyzer, 9 kHz to 3 GHz, with tracking generator | R&S®FSC3 | 1314.3006.13 |
| Spectrum analyzer, 9 kHz to 6 GHz | R&S®FSC6 | 1314.3006.06 |
| Spectrum analyzer, 9 kHz to 6 GHz, with tracking generator | R&S®FSC6 | 1314.3006.16 |
| Accessories supplied | | |
| Power cable, USB cable for connection to PC, quick start guide and CD-ROM (with operating manual and service manual) | | |

Options

| Designation | Type | Order No. |
|--|-------------|--------------|
| Preamplifier, 100 kHz to 3 GHz/6 GHz (for the R&S®FSC3/6) | R&S®FSC-B22 | 1314.3535.02 |

Recommended extras

| Designation | Type | Order No. |
|---|-------------|--------------|
| Ethernet cable | R&S®HA-Z210 | 1309.6152.00 |
| Headphones | R&S®FSH-Z36 | 1145.5838.02 |
| 19" rack adapter, for installing two R&S®FSC | R&S®ZZA-T33 | 1109.4458.00 |
| 19" rack adapter, for installing one R&S®FSC | R&S®ZZA-T34 | 1109.4464.00 |
| Matching pad 50 Ω/75 Ω, 0 Hz to 2700 MHz, matching at both ends, N connectors | R&S®RAM | 0358.5414.02 |
| Matching pad 50 Ω/75 Ω, 0 Hz to 2700 MHz, matching at one end, N connectors | R&S®RAZ | 0358.5714.02 |
| 75 Ω matching pad, N to BNC (female) | R&S®FSH-Z38 | 1300.7740.02 |
| Near-field probe set | R&S®HZ-15 | 1147.2736.02 |
| Preamplifier, for R&S®HZ-15 | R&S®HZ-16 | 1147.2720.02 |

Supported power sensors

| Designation | Type | Order No. |
|---|--------------|--------------|
| Universal power sensor ³ , 10 MHz to 8 GHz, 100 mW, 2-path | R&S®NRP-Z211 | 1417.0409.02 |
| Universal power sensor ³ , 10 MHz to 18 GHz, 100 mW, 2-path | R&S®NRP-Z221 | 1417.0309.02 |
| R&S®NRP-Zxx power sensors require the following adapter cable for operation on the R&S®FSC | | |
| USB adapter cable (passive), length: 2 m, to connect R&S®NRP-Zxx S/SN power sensors to the R&S®FSC | R&S®NRP-Z4 | 1146.8001.02 |

Warranty and service

| Warranty | | |
|--|-------------------------------|-----------------------|
| Base unit | | 3 years |
| All other items ⁴ | | 1 year |
| Service options | | |
| | Service plans ⁵ | On demand |
| Calibration | up to five years ⁵ | pay per calibration |
| Warranty and repair | up to five years ⁵ | standard price repair |
| Contact your Rohde & Schwarz sales office for further details. | | |

For product brochure, see PD 5214.3830.12.

³ For average power measurement only.

⁴ For options installed, the remaining base unit warranty applies if longer than 1 year. Exception: all batteries have a 1 year warranty.

⁵ For extended periods, contact your Rohde & Schwarz sales office.

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- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

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Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

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