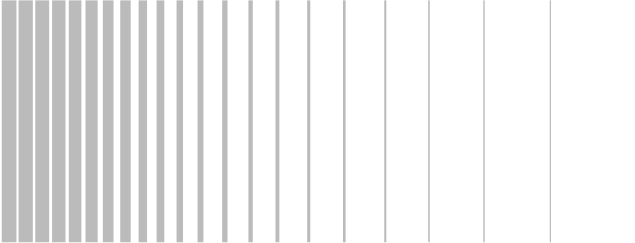


R&S® RT-Zxx High-Bandwidth Probes Specifications



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Definitions

General

Product data applies under the following conditions:

- Three hours storage at ambient temperature followed by 30 minutes warm-up operation
- Specified environmental conditions met
- Recommended calibration interval adhered to

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.

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.

Measured values (meas.)

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

Typical data as well as measured values are not warranted by Rohde & Schwarz.

Probe/oscilloscope chart

Base unit: R&S®	RTM				RTE/RTO								RT-ZA9	Page
Probe: R&S®	200 MHz	350 MHz	500 MHz	1 GHz	200 MHz	350 MHz	500 MHz	600 MHz	1 GHz	2 GHz	4 GHz			
Passive probes														
RT-ZZ80	○	○	●	●	○	○	●	●	●	●	●	○	5	
Active probes														
RT-ZS10E	●	●	●	○	●	●	●	●	○	○	○	●	7	
RT-ZS10	●	●	●	○	●	●	●	●	○	○	○	●	7	
RT-ZS20	○	○	○	●	○	○	○	○	●	○	○	●	7	
RT-ZS30	○	○	○	○	○	○	○	○	○	●	○	●	7	
RT-ZS60	○	○	○	○	○	○	○	○	○	○	●	●	12	
Differential probes														
RT-ZD10	●	●	●	○	●	●	●	●	○	○	○	●	15	
RT-ZD20	○	○	○	●	○	○	○	○	●	○	○	●	15	
RT-ZD30	○	○	○	○	○	○	○	○	○	●	○	●	15	
RT-ZD40	○	○	○	○	○	○	○	○	○	○	●	●	20	

- recommended extra
- possible accessory, with limited functionality of probe or base unit

R&S®RT-ZZ80 transmission line probe

All parameters are valid for the probe only when connected to a host instrument with an input impedance of 50 Ω.
See table on page 4 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZZ80
Step response		
Rise time	10 % to 90 %	< 60 ps
Frequency response		
Bandwidth	starting at DC	8.0 GHz (meas.)
Input impedance		
DC input resistance	system	500 Ω ± 1 %
Input capacitance		0.3 pF (meas.)
DC characteristics		
Attenuation	system	10:1
Attenuation error	probe only, with ideal 50 Ω load impedance	±1 %
Maximum nondestructive input voltage		
Continuous voltage		20 V (RMS)
ESD tolerance	human body model	2 kV (meas.)

General data

Temperature		
Temperature loading	operating temperature range	0 °C to +50 °C
	storage temperature range	-40 °C to +70 °C
Climatic loading		+25 °C/+40 °C cyclic at 95 % relative humidity without condensation, in line with IEC 60068-2-30
Altitude	operation	up to 3000 m
	transport	up to 4600 m
Calibration interval		2 years
Safety		in line with IEC/EN 61010-1
Mechanical data		
Dimensions	probe head (L × W × H)	approx. 68 mm × 12 mm × 7.5 mm (2.68 in × 0.47 in × 0.3 in)
	cable length	approx. 1.1 m (43 in)
	overall length	approx. 1.2 m (48 in)
Weight	probe only	approx. 40 g (0.1 lb)

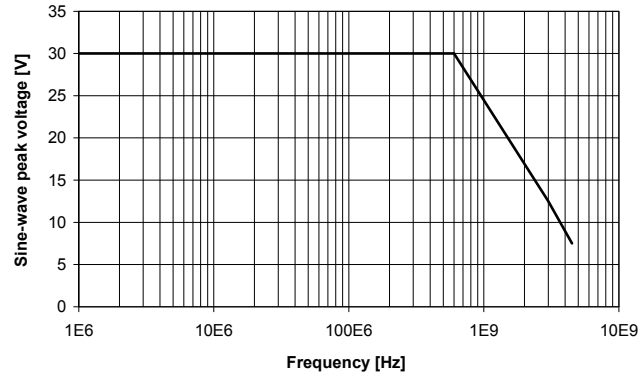
R&S®RT-ZS10/-ZS10E/-ZS20/-ZS30 active probes

All parameters are valid for the probe only when connected to a host instrument with an input impedance of 50 Ω.
See table on page 4 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZS10/ R&S®RT-ZS10E	R&S®RT-ZS20	R&S®RT-ZS30
Step response				
Rise time	10 % to 90 %	< 350 ps	< 250 ps	< 135 ps
Flatness	starting 2 ns after edge	2 % (meas.)		
Propagation delay		5.5 ns (meas.)		
Frequency response				
Bandwidth	starting at DC, calculated from rise time	1.0 GHz	1.5 GHz	3.0 GHz
Flatness	100 kHz to 100 MHz	0.2 dB (meas.)	0.2 dB (meas.)	0.2 dB (meas.)
	100 MHz to 500 MHz	–	0.5 dB (meas.)	0.5 dB (meas.)
	500 MHz to 1 GHz	–	–	0.5 dB (meas.)
Input impedance				
DC input resistance		1 MΩ		
Input capacitance		0.8 pF (meas.)		
DC characteristics				
Attenuation		10:1		
Attenuation error	after applying digital correction factors	±0.5 %		
Temperature drift, attenuation		±60 ppm/°C		
Zero error	after applying digital correction factors, referenced to probe input			
	+15 °C to +35 °C	±2 mV		
	0 °C to +50 °C	±4 mV		
Temperature drift, zero error	referenced to probe input	±90 μV/°C		

Dynamic range		
DC		±8 V (+ offset compensation setting)
Offset compensation range	not available with R&S®RT-ZS10E	±12 V
Offset compensation error	offset compensation setting = 0 V	no additional error
	offset compensation setting ≠ 0 V	±0.2 % of setting ± 2 mV (meas.)
AC	with zero or compensated DC component	16 V (V_{pp})
Total harmonic distortion	16 V (V_{pp}) sine-wave input at 300 MHz for R&S®RT-ZS10/-ZS10E, 1 GHz for R&S®RT-ZS20/-ZS30	-35 dB (meas.)
Noise voltage	referenced to probe input	2 mV (RMS) (meas.)

Maximum nondestructive input voltage		
DC peak voltage		±30 V
AC peak voltage	derated, see figure	30 V
ESD tolerance	human body model	8 kV (meas.)



Maximum nondestructive sine-wave peak voltage versus frequency.

R&S®ProbeMeter

Specifications for measurement error apply only when offset compensation setting is 0 V. Specifications for input impedance, dynamic range and maximum nondestructive input voltage apply. The R&S®RT-ZS10E probe is not equipped with an R&S®ProbeMeter.

Measurement error	+15 °C to +35 °C	±0.1 % of reading ± 750 µV
	0 °C to +50 °C	±0.2 % of reading ± 1.5 mV
Temperature drift		±50 ppm/°C of reading ± 40 µV/°C
50/60 Hz rejection		> 87 dB
Integration time		147 ms

General data

Temperature		
Temperature loading	operating temperature range	0 °C to +50 °C
	storage temperature range	-40 °C to +70 °C
Climatic loading		+25 °C/+40 °C cyclic at 95 % relative humidity without condensation, in line with IEC 60068-2-30
Altitude	operation	up to 3000 m
	transport	up to 4600 m
Mechanical resistance		
Vibration	sinusoidal	5 Hz to 150 Hz, max. 2 g at 55 Hz, 0.5 g from 55 Hz to 150 Hz, in line with EN 60068-2-6
	random	10 Hz to 500 Hz, acceleration 1.9 g (RMS), in line with EN 60068-2-64
Shock		40 g shock spectrum, in line with MIL-STD-810E

EMC		in line with EMC Directive 2004/108/EC, IEC/EN 61326-1, IEC/EN 61326-2-1, CISPR 11/EN 55011(class B, table 2)
Calibration interval		2 years
Safety		in line with IEC/EN 61010-1
Mechanical data		
Dimensions	probe head (W × H × L)	approx. 12 mm × 7.5 mm × 68 mm (0.47 in × 0.3 in × 2.68 in)
	cable length	approx. 1.1 m (43 in)
	overall length	approx. 1.3 m (51 in)
Weight	probe only	approx. 90 g (0.2 lb)

R&S®RT-ZS60 active probe

All parameters are valid for the probe only when connected to a host instrument with an input impedance of 50 Ω. See table on page 4 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZS60
Step response		
Rise time	10 % to 90 %	< 67 ps
Flatness	starting 2 ns after edge	2 % (meas.)
Propagation delay		5.5 ns (meas.)
Frequency response		
Bandwidth	starting at DC, calculated from rise time	6.0 GHz
Flatness	100 kHz to 100 MHz	0.3 dB (meas.)
	100 MHz to 1 GHz	0.3 dB (meas.)
Input impedance		
DC input resistance		1 MΩ
Input capacitance	see figure on page 14 for input impedance	0.3 pF (meas.)
DC characteristics		
Attenuation		10:1
Attenuation error	after applying digital correction factors	
	0 °C to +50 °C	±0.5 %
Temperature drift, attenuation		±100 ppm/°C
Zero error	after applying digital correction factors, referenced to probe input	
	+15 °C to +35 °C	±2 mV
	0 °C to +50 °C	±4 mV
Temperature drift, zero error	referenced to probe input	±100 μV/°C

Dynamic range		
DC		±8 V (+ offset compensation setting)
Offset compensation range		±10 V
Offset compensation error	not when offset compensation setting = 0 V	±0.2 % of setting ± 2 mV (meas.)
AC	with zero or compensated DC component	16 V (V_{pp})
Total harmonic distortion	16 V (V_{pp}) sine-wave input	-70 dB (meas.)
Noise voltage	referenced to probe input	2 mV (RMS) (meas.)
Maximum nondestructive input voltage		
DC peak voltage		±30 V
AC peak voltage	derated, see figure on page 14	30 V
ESD tolerance	human body model	2 kV (meas.)

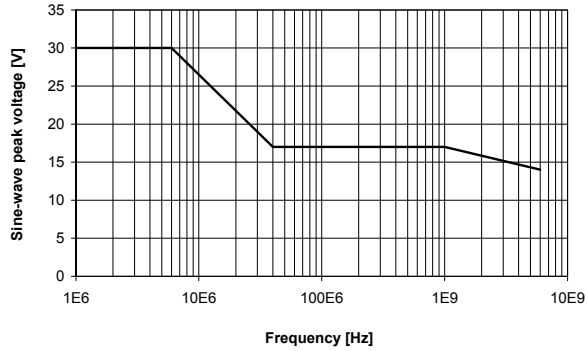
R&S®ProbeMeter

Specifications for measurement error apply only when offset compensation setting is 0 V. Specifications for input impedance, dynamic range and maximum nondestructive input voltage apply.

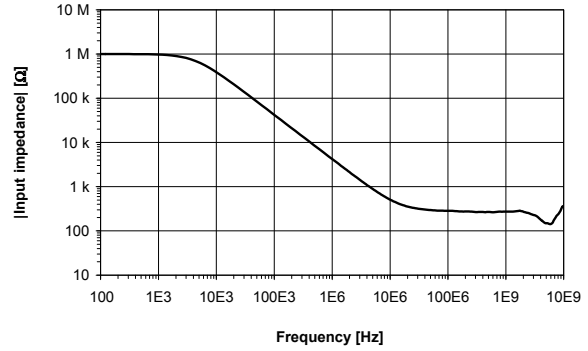
Measurement error	+15 °C to +35 °C	±0.1 % of reading ± 2 mV
	0 °C to +50 °C	±0.2 % of reading ± 4 mV
Temperature drift		±50 ppm/°C of reading ± 100 μ V/°C
50/60 Hz rejection		> 87 dB
Integration time		147 ms

General data

See page 10.



Maximum nondestructive sine-wave peak voltage versus frequency.



Input impedance versus frequency.

R&S®RT-ZD10/-ZD20/-ZD30 differential probes

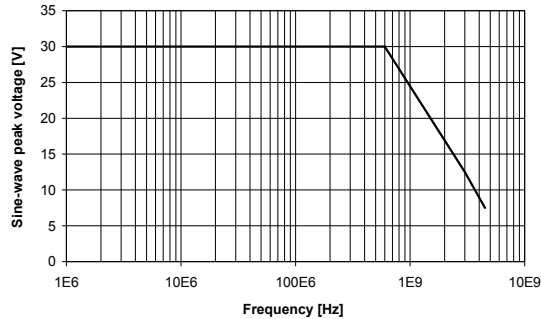
All parameters are valid for the probe only when connected to a host instrument with an input impedance of 50 Ω.
See table on page 4 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZD10	R&S®RT-ZD20	R&S®RT-ZD30
Step response				
Rise time	10 % to 90 %	< 350 ps	< 250 ps	< 135 ps
Flatness	starting 2 ns after edge	2 % (meas.)		
Slew rate	referenced to probe input, see figure on page 17	60 V/ns (meas.)		
Propagation delay		5.5 ns (meas.)		
Frequency response				
Bandwidth	starting at DC, calculated from rise time	1.0 GHz	1.5 GHz	3.0 GHz
Flatness	100 kHz to 100 MHz	0.2 dB (meas.)	0.2 dB (meas.)	0.2 dB (meas.)
	100 MHz to 500 MHz	–	0.5 dB (meas.)	0.5 dB (meas.)
	500 MHz to 1 GHz	–	–	0.5 dB (meas.)
Common mode rejection	DC to 10 kHz	> 50 dB		
	10 kHz to 1 MHz	40 dB (meas.)		
	1 MHz to 1 GHz	30 dB (meas.)		
	> 1 GHz	20 dB (meas.)		
Input impedance				
DC input resistance	between signal sockets	1 MΩ		
	each signal socket to ground	500 kΩ		
Input capacitance	between signal sockets	0.6 pF (meas.)		
	each signal socket to ground	0.8 pF (meas.)		

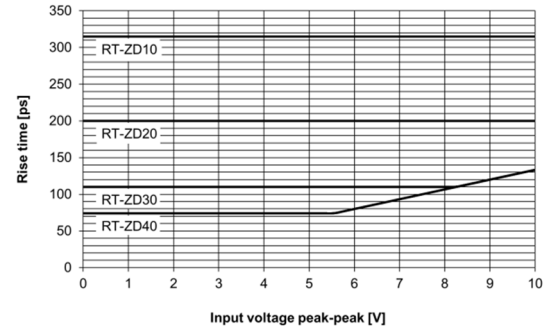
DC characteristics		
Attenuation		10:1
Attenuation error	after applying digital correction factors	±0.5 %
Temperature drift, attenuation		±50 ppm/°C
Zero error	after applying digital correction factors, referenced to probe input	
	+15 °C to +35 °C	±3 mV
	0 °C to +50 °C	±6 mV
Temperature drift, zero error	referenced to probe input	±150 µV/°C
Dynamic range		
Differential input	between signal sockets	±5 V (+ offset compensation setting) ¹
Offset compensation range		±5 V
Offset compensation error	offset compensation setting = 0 V	no additional error
	offset compensation setting ≠ 0 V	±0.2 % of setting ± 2 mV (meas.)
Operating voltage window	each signal socket to ground	±8 V (+ cm offset compensation setting) ²
CM offset compensation range ²		±22 V
CM offset compensation error	cm offset compensation setting = 0 V	no additional error
	cm offset compensation setting ≠ 0 V	±0.2 % of setting ± 2 mV (meas.)
Total harmonic distortion	10 V (V_{pp}) sine-wave input at 1 GHz	-35 dB (meas.)
Noise voltage	referenced to probe input	3 mV (RMS) (meas.)
Maximum nondestructive input voltage		
DC peak voltage	each signal socket to ground	±30 V
AC peak voltage	each signal socket to ground, derated, see figure on page 17	30 V
ESD tolerance	human body model, each signal socket to ground	8 kV (meas.)

¹ Can be extended with the R&S®RT-ZA15 external attenuator (see page 18). For the R&S®RT-ZD10, the R&S®RT-ZA15 is part of delivery. (optional accessory for the R&S®RT-ZD20/-ZD30).

² Available starting with serial number 200 000. Older probes have ±5 V operating voltage window and no cm offset compensation.



Maximum nondestructive sine-wave peak voltage versus frequency.



Rise time versus input voltage (meas.).

R&S®ProbeMeter

Specifications for measurement error apply only when offset compensation setting is 0 V. Specifications for input impedance, dynamic range and maximum nondestructive input voltage apply. The R&S®ProbeMeter can be used to measure differential and common mode voltages.

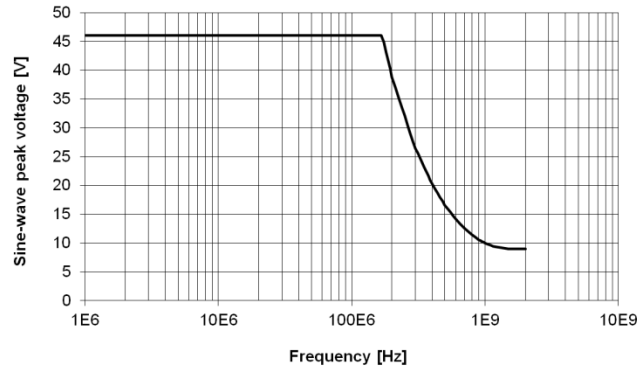
Measurement error, differential mode and common mode	+15 °C to +35 °C	±0.1 % of reading ± 2 mV
	0 °C to +50 °C	±0.2 % of reading ± 4 mV
Temperature drift		±40 ppm/°C of reading ± 100 µV/°C
Common mode rejection	for differential measurement, 0 °C to +50 °C	> 50 dB
50/60 Hz rejection		> 87 dB
Integration time		147 ms

R&S®RT-ZA15 external attenuator

All parameters are valid for the R&S®RT-ZA15 external attenuator when connected to an R&S®RT-ZD10/-ZD20/-ZD30 differential probe.

		R&S®RT-ZA15
Dynamic response		
Rise time	10 % to 90 %	
	with R&S®RT-ZD10	< 350 ps (meas.)
	with R&S®RT-ZD20	< 250 ps (meas.)
	with R&S®RT-ZD30	< 200 ps (meas.)
Bandwidth	starting at DC, calculated from rise time	
	with R&S®RT-ZD10	1.0 GHz
	with R&S®RT-ZD20	1.5 GHz
	with R&S®RT-ZD30	2.0 GHz
Common mode rejection	DC to 10 kHz, after adjustment	80 dB (meas.)
	10 kHz to 1 MHz	40 dB (meas.)
	1 MHz to 100 MHz	30 dB (meas.)
	100 MHz to 1 GHz	20 dB (meas.)
Input impedance		
DC input resistance	between signal sockets	1 MΩ
	each signal socket to ground	500 kΩ
Input capacitance	between signal sockets	1.3 pF (meas.)
	each signal socket to ground	2.1 pF (meas.)
DC characteristics		
System attenuation	probe and attenuator	100:1
External attenuation		10:1
External attenuation error		±0.3 % (nom.)
Dynamic range		
Differential input	between signal sockets	±50 V (+ offset compensation setting)
Offset compensation range		±50 V
Operating voltage window	each signal socket to ground	±70 V

Maximum rated input voltage		
DC voltage	each signal socket to ground	± 70 V
AC voltage	each signal socket to ground, derated, see figure	33 V (RMS)
Transient peak voltage	each signal socket to ground	± 46 V
ESD tolerance	human body model, each signal socket to ground	8 kV (meas.)



Maximum rated sine-wave peak voltage versus frequency.

General data

See page 10.

R&S®RT-ZD40 differential probe

All parameters are valid for the probe only when connected to a host instrument with an input impedance of 50 Ω. See table on page 4 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZD40
Step response		
Rise time	10 % to 90 %	< 90 ps, < 73 ps (typ.)
Flatness	starting 2 ns after edge	2 % (meas.)
Slew rate	referenced to probe input, see figure on page 17	60 V/ns (meas.)
Propagation delay		5.5 ns (meas.)
Frequency response		
Bandwidth	starting at DC, calculated from rise time	4.5 GHz, 5.5 GHz (typ.)
Flatness	100 kHz to 100 MHz	0.2 dB (meas.)
	100 MHz to 500 MHz	0.5 dB (meas.)
	500 MHz to 1 GHz	0.5 dB (meas.)
Common mode rejection	DC to 10 kHz	> 50 dB
	10 kHz to 1 MHz	40 dB (meas.)
	1 MHz to 1 GHz	30 dB (meas.)
	> 1 GHz	20 dB (meas.)
Input impedance		
DC input resistance	between signal sockets	1 MΩ
	each signal socket to ground	500 kΩ
Input capacitance	between signal sockets	0.4 pF (meas.)
	each signal socket to ground	0.65 pF (meas.)

DC characteristics		
Attenuation		10:1
Attenuation error	after applying digital correction factors 0 °C to +50 °C	±0.5 %
Temperature drift, attenuation		±50 ppm/°C
Zero error	after applying digital correction factors, referenced to probe input +15 °C to +35 °C 0 °C to +50 °C	±3 mV ±6 mV
Temperature drift, zero error	referenced to probe input	±150 µV/°C
Dynamic range		
Differential input	between signal sockets	±5 V (+ offset compensation setting)
Offset compensation range		±5 V
Offset compensation error	offset compensation setting = 0 V offset compensation setting ≠ 0 V	no additional error ±0.2 % of setting ± 2 mV (meas.)
Operating voltage window	each signal socket to ground	±8 V (+ cm offset compensation setting) ³
CM offset compensation range ³		±22 V
CM offset compensation error	cm offset compensation setting = 0 V cm offset compensation setting ≠ 0 V	no additional error ±0.2 % of setting ± 2 mV (meas.)
Total harmonic distortion	10 V (V_{pp}) sine-wave input at 1 GHz	-35 dB (meas.)
Noise voltage	referenced to probe input	3 mV (RMS) (meas.)
Maximum nondestructive input voltage		
DC peak voltage	each signal socket to ground	±30 V
AC peak voltage	each signal socket to ground, see figure on page 17	30 V
ESD tolerance	human body model, each signal socket to ground	8 kV (meas.)

³ Available starting from serial number 200 000. Older probes have ±5 V operating voltage window and no cm offset compensation.

Version 14.00, March 2016

R&S®ProbeMeter

See page 17.

General data

See page 10.

Ordering information

Designation	Type	Order No.
Passive probes		
8.0 GHz Transmission Line Probe, 10:1, 500 Ω , 0.3 pF, 20 V (RMS) Incl. signal pin, solder-in (50); ground pin, solder-in (10); signal pin (2); ground pin, pogo (2); signal adapter, square pin (2); ground adapter, square pin (2); SMA(f) to BNC(m) adapter; marker band kit; accessory box; carrying case; operating manual	R&S®RT-ZZ80	1409.7608.02
Active probes		
1.0 GHz Active Voltage Probe, single-ended, 1 M Ω , 0.8 pF Incl. R&S®RT-ZA2 accessory set; R&S®ProbeMeter; micro button	R&S®RT-ZS10	1410.4080.02
1.0 GHz Active Voltage Probe, single-ended, 1 M Ω , 0.8 pF Incl. signal pin (5); ground pin, pogo (2); ground pin, solderable, offset (2); marker band kit; mini clip (1); lead 15 cm (5.9 in) (1)	R&S®RT-ZS10E	1418.7007.02
1.5 GHz Active Voltage Probe, single-ended, 1 M Ω , 0.8 pF Incl. R&S®RT-ZA2 accessory set; R&S®ProbeMeter; micro button	R&S®RT-ZS20	1410.3502.02
3.0 GHz Active Voltage Probe, single-ended, 1 M Ω , 0.8 pF Incl. R&S®RT-ZA2 accessory set; R&S®ProbeMeter; micro button	R&S®RT-ZS30	1410.4309.02
6.0 GHz Active Voltage Probe, single-ended, 1 M Ω , 0.3 pF Incl. R&S®ProbeMeter; micro button Incl. signal pin, solder-in (100); ground pin, solder-in (20); signal pin (5); ground pin, pogo (5); signal adapter, square pin (2); ground adapter, square pin (2); marker band kit; mini clip (2); micro clip (2); lead 6 cm (2.4 in) (2); lead 15 cm (5.9 in) (2); accessory box; carrying case; operating manual	R&S®RT-ZS60	1418.7307.02

Designation	Type	Order No.
Differential probes		
1.0 GHz Active Voltage Probe, differential, 1 M Ω , 0.6 pF Incl. R&S®ProbeMeter; micro button, R&S®RT-ZA15 external attenuator See R&S®RT-ZD20 for additional equipment included	R&S®RT-ZD10	1410.4715.02
1.5 GHz Active Voltage Probe, differential, 1 M Ω , 0.6 pF Incl. R&S®ProbeMeter; micro button Incl. signal pin, solder-in (10); signal pin, variable spacing (4); browser adapter; adapter, square pin (2); flex adapter, solder-in 4 cm (1.6 in) and 10 cm (3.9 in); flex adapter, square pin 4 cm (1.6 in) and 10 cm (3.9 in); lead 6 cm (2.4 in) (2); lead 15 cm (5.9 in) (1); mini clip (2); micro clip (2); marker band kit; carrying case; operating manual	R&S®RT-ZD20	1410.4409.02
3.0 GHz Active Voltage Probe, differential, 1 M Ω , 0.6 pF See R&S®RT-ZD20 for equipment included	R&S®RT-ZD30	1410.4609.02
4.5 GHz Active Voltage Probe, differential, 1 M Ω , 0.4 pF Incl. R&S®ProbeMeter; micro button Incl. signal pin, solder-in (100); socket adapter, variable spacing (2); browser adapter, rigid (2); browser adapter, spring loaded (2); lead 6 cm (2.4 in) (2); lead 15 cm (5.9 in) (1); mini clip (2); micro clip (2); marker band kit; carrying case; operating manual	R&S®RT-ZD40	1410.5205.02

Accessories and sets		
Spare Accessory Set for R&S®RT-ZS10/-ZS10E/-ZS20/-ZS30 active voltage probes Contains: signal pin (10); ground pin, pogo (5); ground pin, solderable, offset (10); ground adapter, square pin (2); marker band kit; mini clip (2); micro clip (2); lead 6 cm (2.4 in) (2); lead 15 cm (5.9 in) (2); accessory box; carrying case; operating manual	R&S®RT-ZA2	1416.0405.02
Pin Set for R&S®RT-ZS10/-ZS10E/-ZS20/-ZS30 active voltage probes Contains: signal pin (20); ground pin, pogo (5); ground pin, solderable, offset (20); ground adapter, square pin (2); marker band kit	R&S®RT-ZA3	1416.0411.02
Mini Clips, contains: mini clip (10)	R&S®RT-ZA4	1416.0428.02
Micro Clips, contains: micro clip (4)	R&S®RT-ZA5	1416.0434.02
Lead Set, contains: lead 6 cm (2.4 in) (5); lead 15 cm (5.9 in) (5)	R&S®RT-ZA6	1416.0440.02
Differential Pin Set for R&S®RT-ZD20/-ZD30 Contains: signal pin, solder-in (20); signal pin, variable spacing (10); browser adapter (2); adapter, square pin (2)	R&S®RT-ZA7	1417.0609.02
Differential Pin Set for R&S®RT-ZD40 Contains: signal pin, solder-in (100); socket adapter, variable spacing (2); browser adapter, rigid (2); browser adapter, spring loaded (2)	R&S®RT-ZA8	1417.0867.02
Probe Box to N/USB Adapter	R&S®RT-ZA9	1417.0909.02
SMA(f) to BNC(m) Adapter	R&S®RT-ZA10	1416.0457.02
External Attenuator Incl. adjustment tool	R&S®RT-ZA15	1410.4744.02

Service that adds value

- | Worldwide
- | Local and personalized
- | Customized and flexible
- | Uncompromising quality
- | Long-term dependability

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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