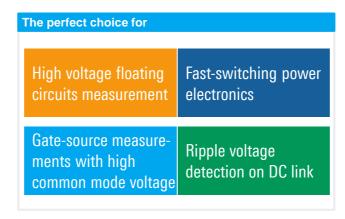
R&S®RT-ZHD

Outstanding high voltage differential probes





Key specifications		
Maximum voltage	6000/1500/750 V	
Bandwidth	100/200/100 MHz	
Rise time	2 ns to 4 ns	
Common mode rejection	DC to 60 Hz	80 dB
	60 Hz to 1 kHz	70 dB
	1 kHz to 1 MHz	55 dB
	1 MHz to 50 MHz	35 dB

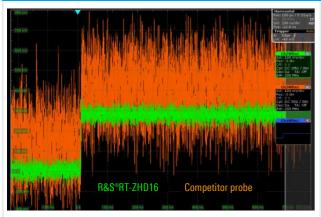
Precise high voltage measurements with exceptional CMRR

In order to achieve highest power efficiencies and power densities in switched-mode power supplies, switching loss has to be minimized. This requires the use of modern, fast-switching semiconductors. With up to 200 MHz bandwidth and an excellent common mode rejection ratio (CMRR) over a broad frequency range, the R&S®RT-ZHD high voltage differential probes are ideal for measurements on fast-switching power electronics. Extraordinarily low added noise results in high-quality measurements.

Your benefit	Features
Always safe (for user and DUT)	No short circuits due to GND connections and the scope is always connected to earth
Excellent functions	Automatic range adjustment, overrange signalization, integrated DC voltmeter
Accurate results	Accurate, low inherent noise, high bandwidth and slew rate, high linearity, very low drift, high CMRR

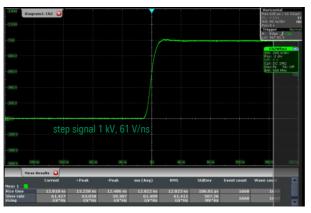
For more information, visit www.rohde-schwarz.com/high-voltage-probes

Low inherent noise



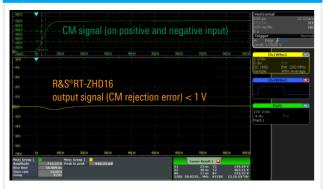
Noise voltage below 80 mV (R&S®RT-ZHD16, 200 MHz)

High bandwidth and slew rate



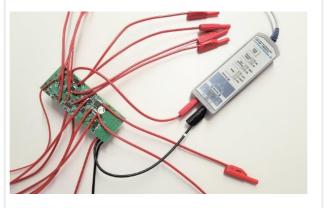
Short rise time enables measurement of fast transients (e.g. 12 ns) without any overshoot

High CMRR



Suitable for high side gate measurements in applications with slew rates up to 10 V/ns

Measurement leads changeable (solderable)



Fast and safe alternation between measurement leads

High voltage probes: differential		
Models	Specification	
R&S®RT-ZHD07	 Bandwidth: 200 MHz Attenuation factor: 250:1 / 25:1 Dyn. range (diff. input): ±750 V / ±75 V Max. input voltage to earth (each terminal): 300 V CAT III, 600 V CAT II, 600 V (V_{RMS}) / 4500 V (V_{PK}) Differential offset: ±1000 V Diff. input impedance: 5 MΩ 2.5 pF 	
R&S®RT-ZHD15	 Bandwidth: 100 MHz Attenuation factor: 500:1 / 50:1 Dyn. range (diff. input): ±1500 V / 150 V Max. input voltage to earth (each terminal): 1000 V CAT III, 1000 V (V_{RMS}) / 6800 V (V_{PK}) Differential offset: ±2000 V Diff. input impedance: 10 MΩ 2 pF 	
R&S®RT-ZHD16	$ \begin{tabular}{ll} \textbf{Bandwidth: } 200 \ MHz \\ \textbf{I Attenuation factor: } 500:1 \ / \ 50:1 \\ \textbf{Dyn. range (diff. input): } \pm 1500 \ V \ / \ 150 \ V \\ \textbf{I Max. input voltage to earth (each terminal): } 1000 \ V \ CAT III, $1000 \ V \ (V_{RMS})$ / $6800 \ V \ (V_{PK})$ \\ \textbf{I Differential offset: } \pm 2000 \ V \\ \textbf{I Diff. input impedance: } 10 \ M\Omega \ \ 2 \ pF \\ \end{tabular} $	
R&S®RT-ZHD60	 Bandwidth: 100 MHz Attenuation factor: 1000:1 / 100:1 Dyn. range (diff. input): ±6000 V / 600 V Max. input voltage to earth (each terminal): 1000 V CAT III, 1750 V (V_{RMS}) / 6800 V (V_{PK}) Differential offset: ±2000 V Diff. input impedance: 40 MΩ 2 pF 	

Rohde & Schwarz Representative