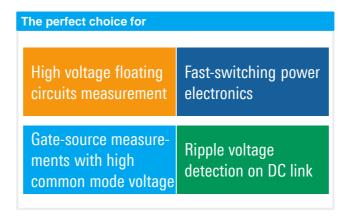
## R&S®RT-ZHD

# Outstanding high voltage differential probes





Key specifications		
6000/1500/750 V		
100/200/100 MHz		
2 ns to 4 ns		
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	
	6000/1500/750 V 100/200/100 MHz 2 ns to 4 ns DC to 60 Hz 60 Hz to 1 kHz 1 kHz to 1 MHz	

## 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.

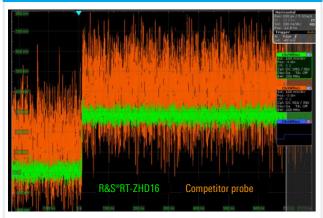
Your benefit	Features
Always safe (for user and DUT)	No short circuits due to GND connections and the scope is always connected to earth
Excellent functions	Automatic range adjustment, overrange signalization, integrated DC voltmeter
Accurate results	Accurate, low inherent noise, high bandwidth and slew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

For more information, visit <a href="https://www.rohde-schwarz.com/high-voltage-probes">www.rohde-schwarz.com/high-voltage-probes</a>





#### Low inherent noise



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

#### High bandwidth and slew rate



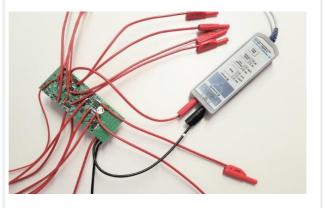
Short rise time enables measurement of fast transients (e.g. 12 ns) without any overshoot

### **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	<ul> <li>Bandwidth: 200 MHz</li> <li>Attenuation factor: 250:1 / 25:1</li> <li>Dyn. range (diff. input): ±750 V / ±75 V</li> <li>Max. input voltage to earth (each terminal): 300 V CAT III, 600 V CAT II, 600 V (V<sub>RMS</sub>) / 4500 V (V<sub>PK</sub>)</li> <li>Differential offset: ±1000 V</li> <li>Diff. input impedance: 5 MΩ    2.5 pF</li> </ul>	
R&S®RT-ZHD15	<ul> <li>Bandwidth: 100 MHz</li> <li>Attenuation factor: 500:1 / 50:1</li> <li>Dyn. range (diff. input): ±1500 V / 150 V</li> <li>Max. input voltage to earth (each terminal): 1000 V CAT III, 1000 V (V<sub>RMS</sub>) / 6800 V (V<sub>PK</sub>)</li> <li>Differential offset: ±2000 V</li> <li>Diff. input impedance: 10 MΩ    2 pF</li> </ul>	
R&S®RT-ZHD16	<ul> <li>Bandwidth: 200 MHz</li> <li>Attenuation factor: 500:1 / 50:1</li> <li>Dyn. range (diff. input): ±1500 V / 150 V</li> <li>Max. input voltage to earth (each terminal): 1000 V CAT III, 1000 V (V<sub>RMS</sub>) / 6800 V (V<sub>PK</sub>)</li> <li>Differential offset: ±2000 V</li> <li>Diff. input impedance: 10 MΩ    2 pF</li> </ul>	
R&S°RT-ZHD60	<ul> <li>Bandwidth: 100 MHz</li> <li>Attenuation factor: 1000:1 / 100:1</li> <li>Dyn. range (diff. input): ±6000 V / 600 V</li> <li>Max. input voltage to earth (each terminal): 1000 V CAT III, 1750 V (V<sub>RMS</sub>) / 6800 V (V<sub>PK</sub>)</li> <li>Differential offset: ±2000 V</li> <li>Diff. input impedance: 40 MΩ    2 pF</li> </ul>	

Rohde & Schwarz Representative

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