R&S[®]RT-ZHD Outstanding high voltage differential probes



The perfect choice for	
High voltage floating circuits measurement	Fast-switching power electronics
Gate-source measure- ments with high common mode voltage	Ripple voltage detection on DC link

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



Fact sheet | 01.00 R&S®RT-ZHD

	High bandwidth and slew rate		robes: differential
	The second secon	Models R&S [⊗] RT-ZHD07	Specification Bandwidth: 200 MHz Attenuation factor: 250:1 / 25:1 Dyn. range (diff. input): ±750 V / ±75 V Max. input voltage to earth (each
	step signal 1 kV, 61 V/ns		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
Ioise voltage below 80 mV (R&S®RT-ZHD16, 200 MHz)	News Series Office Office Static rest Static res Static res Stati	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
igh CMRR CM signal (on positive and negative input)	Measurement leads changeable (solderable)	R&S®RT-ZHD16	 Bandwidth: 200 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
output signal (CM rejection error) < 1 V		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

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