

스펙

ZVH 케이블 및 안테나 분석기



		R&S® ZVH4	R&S® ZVH8
Frequency range		100 kHz to 3.6 GHz	100 kHz to 8 GHz
Standard measurement functions		reflection measurement, distance-to-fault measurement, one-port cable loss measurement	
Output power (port 1, port 2)		0 dBm to -40 dBm (nominal), in 1 dB steps	
Maximum permissible spurious signal level		+17 dBm (nominal)	
Number of points		101, 201, 401, 601, 631, 801, 1001, 1201	
<b>Distance-to-fault (DTF) measurement</b>			
Display modes		return loss (dB), VSWR	
Resolution in meters		(1.58 × velocity factor/span)	
Horizontal display range		3 m to 1500 m	
<b>Reflection measurement</b>			
Directivity	100 kHz to 3 GHz (nominal)	> 43 dB (nominal)	> 43 dB (nominal)
	3 GHz to 3.6 GHz	> 37 dB (nominal)	> 37 dB (nominal)
	3.6 GHz to 6 GHz	-	> 37 dB (nominal)
	6 GHz to 8 GHz	-	> 31 dB (nominal)
Display modes		S <sub>11</sub> , return loss (dB), VSWR, one-port cable loss	
	vector network analysis (R&S®ZVH-K42)	S <sub>11</sub> , S <sub>22</sub> , magnitude, phase, magnitude + phase, Smith chart, VSWR, reflection coefficient, mp, one-port cable loss, electrical length, group delay	
	vector voltmeter (R&S®ZVH-K45)	magnitude + phase, Smith chart	
<b>Transmission measurement (R&amp;S®ZVH-K39 or R&amp;S®ZVH-K42)</b>			
Dynamic range (S <sub>21</sub> , S <sub>12</sub> )	100 kHz to 300 kHz	> 50 dB (nominal)	> 50 dB (nominal)
	300 kHz to 2.5 GHz	> 80 dB, typ. 100 dB	> 80 dB, typ. 100 dB
	2.5 GHz to 3.6 GHz	> 70 dB, typ. 90 dB	> 70 dB, typ. 90 dB
	3.6 GHz to 6 GHz	-	> 70 dB, typ. 90 dB
	6 GHz to 8 GHz	-	> 50 dB (nominal)
Display modes	transmission measurement (R&S®ZVH-K39)	S <sub>21</sub> , magnitude in dB (loss, gain)	
	vector network analysis (R&S®ZVH-K42)	S <sub>21</sub> , S <sub>12</sub> , magnitude (loss, gain), phase, magnitude + phase, electrical length, group delay	
	vector voltmeter (R&S®ZVH-K45)	magnitude + phase	
<b>DC voltage supply (DC bias, port 1 and port 2)</b>			
Voltage range	internal voltage supply	+12 V to +32 V, in 1 V steps	
Maximum output power		4 W (battery), 10 W (AC supply)	
Maximum current		500 mA	
Maximum voltage	external voltage supply	50 V	
Maximum current		600 mA	
<b>General data</b>			
Display		6.5" color LCD with VGA resolution	
Battery operating time	R&S®HA-Z204, 4.5 Ah	up to 3 h	
	R&S®HA-Z206, 6.75 Ah	up to 4.5 h	
Dimensions (W × H × D)		194 mm × 300 mm × 69 mm (144 mm) <sup>1)</sup> , 7.6 in × 11.8 in × 2.7 in (5.7 in) <sup>1)</sup>	
Weight		< 3 kg, 6.6 lb	

1) With carrying handle.