

스펙

ZVL 벡터 네트워크 분석기



Frequency range	9 kHz (typ. 5 kHz) to 3 GHz/6 GHz/13.6 GHz	
Measurement time (201 test points at 100 kHz IF bandwidth, with normalization calibration)	<50 ms	
Data transfer time (201 test points)	Via RSIB over 100 Mbit/s LAN	1.5 ms
Dynamic range at 10 Hz measurement bandwidth (20 MHz to 3 GHz)	>115 dB, typ. 123 dB (ZVL3,ZVL6) > 100 dB, typ. 105 dB (ZVL13)	
Output power range	-50 dBm to 0 dBm, typ. -60 dBm to +10 dBm (ZVL3, ZVL6 and ZVL3-75)	
Measurement bandwidths	10 Hz to 500 kHz in 1/2/5 steps	
Trace noise	< 0.005 dB (rms above 10 MHz)	
Receiver step attenuators (maximum nominal input power)	0 dB to 30 dB	
Number of channels, diagrams, traces	>100 ¹⁾	
Number of test points per trace	2 to 4001	
Operating system	Windows XP Embedded	
Weight (without battery)	<7 kg (15.43 lb)	

¹⁾ Limited by available RAM capacity

Spectrum Analysis (R&S®ZVL-K1 option)		
Frequency range	9 kHz to 3 GHz/6 GHz/13.6 GHz	
Frequency uncertainty	1 × 10 ⁻⁶	
	With R&S®FSL-B4 option	1 × 10 ⁻⁷
Resolution bandwidths	Standard	300 Hz to 10 MHz in 1/3 steps, 20 MHz at zero span
	With R&S®FSL-B7 option	(1 Hz) 10 Hz to 10 MHz in 1/3 steps
Video bandwidths	10 Hz to 10 MHz	
I/Q demodulation bandwidth	20 MHz	
SSB phase noise at 500 MHz	typ. -103 dBc (1 Hz) at 10 kHz carrier offset	
Displayed average noise level	Without preamplifier at 1 GHz	<-140 dBm (1 Hz)
	With preamplifier at 1 GHz	<-156 dBm (1 Hz), typ. -163 dBm (1 Hz)
Third-order intercept (TOI)	>+5 dBm, typ. +12 dBm	
Detectors	max/min peak, auto peak, rms, quasi peak, average, sample	
Level measurement uncertainty (95% confidence level)	<0.5 dB	