

스펙

FSMR 측정 리시버



	R&S®FSMR3	R&S®FSMR26	R&S®FSMR43	R&S®FSMR50
Frequency range	20 Hz to 3.6 GHz	20 Hz to 26.5 GHz	20 Hz to 43 GHz	20 Hz to 50 GHz
Reference frequency	aging: 1×10^{-7} /year, optionally 2×10^{-8} /year			
Absolute power measurement	using R&S®NRP-Zxx power sensor or external power meters			
Uncertainty	with R&S®NRP-Z27/-Z37: 0.083 dB (up to 4.2 GHz, +15 °C to +35 °C)			
Relative level measurement				
Measurement range	+30 dBm to -140 dBm, depending on frequency			
Linearity (+20 dBm to -140 dBm)	± 0.01 dB ± 0.005 dB per 10 dB step			
AM modulation measurements				
Modulation depth	0 % to 100 %			
Measurement uncertainty	1 % of reading, 50 Hz to 50 kHz; 0.4 % of reading, 90 Hz to 150 Hz, in range from 5 % to 99 %			
Modulation frequency	10 Hz to 100 kHz			
Inherent distortion	0.30%			
FM modulation measurements				
Frequency deviation	max. 500 kHz			
Measurement uncertainty	1 % of reading, 50 Hz to 100 kHz			
Modulation frequency	10 Hz to 200 kHz			
Inherent distortion	0.10%			
φM modulation measurements				
Phase deviation	max. 10 000 rad			
Measurement uncertainty	1 % of reading, 50 Hz to 100 kHz			
Modulation frequency	10 Hz to 100 kHz			
Inherent distortion	0.10%			
Audio measurements				
Frequency range	DC, 20 Hz to 1 MHz			
Level ranges	0.4 V, 4 V			
Measurement uncertainty	1 % of reading, 20 Hz to 100 kHz			
Spectrum analyzer				
Frequency range	20 Hz to 3.6 GHz	20 Hz to 26.5 GHz	20 Hz to 43 GHz	20 Hz to 50 GHz
Resolution bandwidths	10 Hz to 50 MHz; FFT filters: 1 Hz to 30 kHz; channel filters; EMI bandwidths			
Video bandwidths	1 Hz to 10 MHz			
Displayed average noise level (RBW 1 Hz)				
1 GHz	typ. -158 dBm	typ. -156 dBm	typ. -156 dBm	typ. -156 dBm
26 GHz	-	typ. -151 dBm	typ. -151 dBm	typ. -151 dBm
43 GHz	-	-	typ. -140 dBm	typ. -140 dBm
50 GHz	-	-	-	typ. -133 dBm
Trace detectors	Max Peak, Min Peak, Auto Peak, Sample, RMS, Average, Quasi Peak			
Phase noise	typ. -133 dBc (1 Hz) at 10 kHz from carrier, 640 MHz carrier frequency			
Sweep time				
Span > 10 Hz	2.5 ms to 16 000 s			
Span 0 Hz (zero span)	1 μs to 16 000 s			
Image frequency rejection				
f < 3.6 GHz	typ. 110 dB			
f > 3.6 GHz	-	0 dB		
f > 3.6 GHz, with R&S®FSMR-B2 option	-	typ. 100 dB		