

스펙

FSW 신호 및 스펙트럼분석기



Frequency		
Frequency range	R&S®FSW8	2 Hz to 8 GHz
	R&S®FSW13	2 Hz to 13.6 GHz
	R&S®FSW26	2 Hz to 26.5 GHz
	R&S®FSW43	2 Hz to 43.5 GHz
	R&S®FSW50	2 Hz to 50 GHz
	R&S®FSW67	2 Hz to 67 GHz
	R&S®FSW85	2 Hz to 85 GHz
Aging of frequency reference		1 × 10 <sup>-7</sup> /year
	with R&S®FSW-B4 option	3 × 10 <sup>-8</sup> /year
Bandwidths		
Resolution bandwidths	standard filter	1 Hz to 10 MHz, 80 MHz (with R&S®FSW-B8 option)
	RRC filter	18 kHz (NADC),
		24.3 kHz (TETRA),
		3.84 MHz (3GPP)
	channel filter	100 Hz to 5 MHz
video filter	1 Hz to 10 MHz	
I/Q demodulation bandwidth		10 MHz
	with R&S®FSW-B28 option	28 MHz
	with R&S®FSW-B40 option	40 MHz
	with R&S®FSW-B80 option	80 MHz
	with R&S®FSW-B160 option	160 MHz
	with R&S®FSW-B320 option	320 MHz
	with R&S®FSW-B512 option	512 MHz
	with R&S®FSW-B2000 option	2 GHz <sup>1)</sup>
Displayed average noise level (DANL)		
	2 GHz	-156 dBm (1 Hz) (typ.)
	with R&S®FSW-B13 option	-159 dBm (1 Hz) (typ.)
	8 GHz	-156 dBm (1 Hz) (typ.)
	20 GHz	-150 dBm (1 Hz) (typ.)
	40 GHz	-144 dBm (1 Hz) (typ.)
	80 GHz	-126 dBm (1 Hz) (typ.)
DANL with preamplifier (R&S®FSW-B24 option)	8 GHz	-169 dBm (1 Hz) (typ.)
	20 GHz	-166 dBm (1 Hz) (typ.)
	40 GHz	-165 dBm (1 Hz) (typ.)
DANL with noise cancellation, preamplifier off, 2 GHz		-169 dBm (1 Hz) (typ.)
Intermodulation		
Third-order intercept (TOI)	f < 1 GHz	+30 dBm (typ.)
	f < 3 GHz	+25 dBm (typ.)
	8 GHz to 26 GHz	+17 dBm (typ.)
	13.6 GHz to 40 GHz	+15 dBm (typ.)
WCDMA ACLR dynamic range	with noise cancellation	88 dB
Phase noise		
10 kHz offset from carrier	500 MHz carrier	-140 dBc (1 Hz) (typ.)
	1 GHz carrier	-137 dBc (1 Hz) (typ.)
	10 GHz carrier	-128 dBc (1 Hz) (typ.)
Total measurement uncertainty	8 GHz	< 0.4 dB