Spectrum Compact 6-20 GHz v.2

J0SSAP52 datasheet

Measurements
- Channel Power (measures the total power in a specified bandwidth)
- Adjacent channel power
- Signal bandwidth
- Center frequency
- Interference detection
- Mask

Setup Parameters
- Frequency: Center/Start/Stop
- Trace mode: Normal, Max hold, Cumulative, # of Averages, Min/Max Hold
- Span: Max Span, Min Span, Selected Span

Save
- Proprietary format
- Saves actual data

Sweep Functions
- Sweep: Continuous, Manual Trigger

Trace Functions
- Trace operations: Normal, Max hold, # of Averages, Cumulative, Min/Max Hold

Marker Functions
- Marker: Peak search, set marker to center

Settings

- LNA ON/OFF
- ATT
- RBW, VBW
- Signal ID

SAF Spectrum Compact 6-20GHz datasheet
Product features may vary between different models and configurations. They are subject to change without prior notice.

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Frequency
- **Frequency Range** *5 925 – 20 000 MHz*
- **Frequency Resolution** 30 kHz
- **Frequency Reference**   Aging ±1.0 ppm/1 year
  Accuracy: ±2.5 ppm (25°C ±25°C) + aging
- **Frequency span** 1.5 MHz to full

Bandwidth (Performance Sweep Mode)
- **RBW** 30 kHz; 100 kHz; 300 kHz; 1MHz
- **VBW** 1 kHz; 3 kHz; 10 kHz; 30 kHz; 100 kHz;

Amplitude Ranges
- Measurement Range DANL to +20 dBm

Amplitude Accuracy (single sine wave input, Performance Sweep Mode)

20° C to 30° C Typical: ±1 dB

VSWR *5.925 – 20 GHz* < 2.0

Input attenuator 30 dB with 5 dB step

SSB Phase Noise

	20°C to 30°C, Fc = 10 GHz	
Carrier offset	100 kHz offset	<-90 dBc/Hz

Maximum Input Level

DC voltage	0 V
CW RF power	Attenuation = 30 dB ; + 20 dBm (100 mW), LNA = OFF
Max. Damage level	+ 27 dBm

Displayed Average Noise Level (DANL)

Attenuation = 0 dB, RBW = VBW = 30 kHz /RBW= 1 MHz, VBW = 1 kHz, AVG detector, trace average 16, 20°C to 30°C, input impendence = 50 Ω

LNA ON	5.925 GHz to 20 GHz
	-110 dBm @ 30kHz; -100 dBm @ 1MHz RBW typ.
LNA OFF	5.925 GHz to 20 GHz
	-90 dBm @ 30kHz; -75 dBm @ 1MHz RBW typ.

Level Display

Trace detectors	AVG; MAX; MIN
Trace functions	Clear write, max hold, average, cumulative, min/max hold

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Frequency response

5.925 – 20 GHz; amplitude accuracy ±1 dBm

LNA ON/OFF

Gain 5.925 – 20 GHz   +20 dB

RF Input Connector

	Impedance	50 Ω (nom.)
	Connector	SMA F

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Sweep		
Sweep time @ RBW=1MHz, MIN SPAN=50MHz	MIN SPAN <= 200 ms	
Display		
Type	Touchscreen	
Resolution	480 x 3 (RGB) x 272	
Size	4.3 inch	
Color arrangement	RGB-stripe	
Mass memory	8 GB	
Input voltage	5V DC 3A	
Interface	USB Type-C	
Battery life	up to 4h	
Operating temperature	-15°C to +55°C / 5°F to 131°F	
Dimensions	135 x 83 x 34 mm / 5.31 x 3.27 x 1.34 inch	
Weight	0.57 kg / 20.11 oz	