



SPECTRUM COMPACT 56-71 GHz

JOSSAP61 DATASHEET

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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
- Span: Max Span, Min Span, Selected Span

Save

- Proprietary format
- Saves actual data
- Continuous sweep record

Sweep Functions

- Sweep: Continuous, Manual Trigger

SAF Spectrum Compact 56-71 GHz datasheet

Product features may vary between different models and configurations. They are subject to change without prior notice.

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Trace Functions

- Trace operations: Normal, Max hold, # of Averages, Cumulative

Marker Functions

- Marker: Peak search, set marker to center

Settings

- Detector MIN, AVG, MAX
- Signal ID

Remote control

- Spectrum Manager PC software
- API commands

Frequency

- **Frequency Range** 56 000 – 71 000 MHz
- **Frequency Resolution** 10 MHz
- **Frequency Reference** Aging ± 1.0 ppm/1 year
Accuracy: ± 2.5 ppm ($25^{\circ}\text{C} \pm 25^{\circ}\text{C}$) + aging
- **Frequency span** 1000 MHz to full

Bandwidth (Performance Sweep Mode)

- **RBW** 10 MHz
- **VBW** 300 kHz;

Amplitude Ranges

- Measurement Range DANL to -40 dBm

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

20° C to 30° C Typical: ± 1 dB

VSWR

56 000 – 67 000 MHz ≤ 2.0 typ.

SSB Phase Noise on RF input

	20°C to 30°C	
Carrier offset	100 kHz offset	≤ -80 dBc/Hz

Maximum Input Level

DC voltage	0 V
CW RF power	-40 dBm (0.0001 mW),
Max. Damage level	0 dBm (1mW)

Displayed Average Noise Level (DANL)

AVG detector, trace average 16, 20°C to 30°C, input impedance = 50 Ω
-90 dBm* @ RWB = 10 MHz

* Guaranteed for Frequency Range 56 000 – 67 000 MHz

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Level Display		
Trace detectors	AVG; MAX; MIN	
Trace functions	Clear write, max hold, average, cumulative, min/max hold	
Frequency response		
56 000 – 71 000MHz; amplitude accuracy ±1 dBm		
RF Input Connector		
	Impedance	50 Ω (nom.)
	Connector	Waveguide flange UG385/U
Sweep		
Sweep time		
MIN SPAN=1000 MHz	MIN SPAN = 500 ms	
Display		
Type	TFT LCD resistive touchscreen	
Resolution	480 x 272	
Size	4.3 inch (Diagonal)	
Active area	95 x 53.8 mm	
Mass memory		
8 GB		
Input voltage		
USB micro: 5V DC 1.5A		
DC input: 5.9V DC 3A		
Interface USB micro		
Battery life up to 3h		
Operating temperature -15°C to +55°C / 5°F to 131°F		
Dimensions 147 x 83 x 34 mm / 5.79 x 3.27 x 1.34 inch		
Weight 0.57 kg / 20.11 oz		

For more detailed information about SAF products visit www.saftehnika.com or contact your SAF representative info@saftehnika.com. Product features may vary between different models and configurations. They are subject to change without prior notice.

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