

Spectrum Compact

Spectrum analyzers 2 - 40 GHz



- Essential tool for link troubleshooting
- Top choice for site survey and acceptance
- Perfect aid for installation and maintenance of antenna systems
- Industry leading -105 dBm receiver sensitivity
- Intuitive control and interactive GUI with instant On/Off functionality
- Resistive LCD touchscreen allows working with gloves on

P/N	JOSSAP10	JOSSAP11	JOSSAP12	JOSSAP13	JOSSAP14
Frequency range	2.000 - 8.000 GHz	5.925 - 12.000	10.000 - 18.000 GHz	17.000 - 24.300 GHz	24.000 - 40.000 GHz
Input dynamic range			-105 to -40 dBm		-100 to -40 dBm
Max input power			0 dBm		0 dBm
RBW			1 MHz		1 MHz
VBW			300 kHz		300 kHz
Min. Span			100 MHz		100 MHz
Max. Span			full bandwidth		full bandwidth
Sweep speed			0.5s @ Min. Span		0.5s @ Min. Span
Accuracy			+/- 1 dB*		+/- 1 dB*
Input			50 ohm SMA (f)		50 ohm 2.92 mm (f)
Interface			mini USB 2.0 (1.1)		mini USB 2.0 (1.1)
Battery			2380 mAh Lithium Polymer		2 x 2380 mAh Lithium Polymer
Battery life			up to 4h		up to 3h
Operating temperature			-15°C to +55°C / 5°F to 131°F		-15°C to +55°C / 5°F to 131°F
Dimensions			128 x 81 x 24 mm / 5.04 x 3.2 x 0.94 in		130 x 81 x 28 mm / 5.11 x 3.2 x 1.1 in
Weight			0.3 kg / 10.6 oz		0.4 kg / 14.11 oz

Regulatory compliance:

Climate class: Usage 7K2; Transportation 2K4

Mechanical class: 7M2

** Guaranteed at 21°C/70°F CW signal*

Spectrum Compact

Spectrum analyzers 2 - 40 GHz



Frequency

- **Frequency Range** 2-40 GHz
 - **Tuning Resolution** 1 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** 100 MHz to full
 - **Sweep Time** 0.5s – 100 MHz
-

Bandwidth (Performance Sweep Mode)

- RBW 1 MHz
 - VBW 300 kHz
-

Amplitude Ranges

- Dynamic Range -105 dBm to -40dBm/1 MHz 2-24 GHz, -100 to -40dBm/1 MHz 24-40
- Measurement Range DANL to -40 dBm
- Display Range 1 to 10 dB/div in 1 dB steps, ten divisions displayed
- Amplitude Units LiN Scale Modes: dBm

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

20°C to 30°C Typical: ± 1 dB

-15°C to 55°C ± 3 dB

DANL

2-8 GHz	-105
6-12 GHz	-105
10-18 GHz	-105
17-24 GHz	-105
24-40 GHz	-105 (f<35GHz) -100(f>35GHz)

Spurs < -90 dBm

Third-Order Intercept (TOI) -10 dBm

VSWR 2-24 GHz < 2.00

24-40 GHz < 3.00

LO leakage @ RF port ≤ -40 dBm

Spectrum Compact

Spectrum analyzers 2 - 40 GHz



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, Fill
 - Span: Full Span, Min Span, Selected Span
-

Save

- Proprietary format
 - Saves actual data
-

Sweep Functions

- Sweep: Single/Continuous, Manual Trigger
-

Trace Functions

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

Marker Functions

- Marker: Peak search, set marker to center

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.

SAF Tehnika © 2017