

# Spectrum Compact 0.3-3 GHz

JOSSAP33 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
- Continuous sweep record
- Recort-time plot display (pseudo-spectrogram)

## Sweep Functions

- Sweep: Continuous, Manual Trigger

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## 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
- RBW, VBW

<b>Frequency</b> <ul style="list-style-type: none"><li><b>Frequency Range</b> 300 – 3000 MHz</li><li><b>Frequency Resolution</b> 10 kHz</li><li><b>Frequency Reference</b> Aging <math>\pm 1.0</math> ppm/1 year Accuracy: <math>\pm 2.5</math> ppm (<math>25^{\circ}\text{C} \pm 25^{\circ}\text{C}</math>) + aging</li><li><b>Frequency span</b> 0.5 MHz to full</li></ul>		
<b>Bandwidth</b> (Performance Sweep Mode) <ul style="list-style-type: none"><li><b>RBW</b> 10 kHz; 30 kHz; 100 kHz; 300 kHz</li><li><b>VBW</b> 1 kHz; 3 kHz; 10 kHz; 30 kHz;</li></ul>		
<b>Amplitude Ranges</b> <ul style="list-style-type: none"><li>Measurement Range DANL to +20 dBm</li></ul> Amplitude Accuracy (single sine wave input, Performance Sweep Mode) 20° C to 30° C Typical: $\pm 1$ dB		
<b>VSWR</b> 300 – 3000 MHz < 1.5		
<b>Input attenuator</b> 30 dB with 5 dB step		
<b>SSB Phase Noise</b>		
Carrier offset	20°C to 30°C, Fc = 1 GHz 100 kHz offset	<-90 dBc/Hz
<b>Maximum Input Level</b>		
DC voltage	0 V	
CW RF power	Attenuation = 30 dB ; + 20 dBm (100 mW), LNA = OFF	
Max. Damage level	+ 27 dBm	
<b>Displayed Average Noise Level (DANL)</b>		
Attenuation = 0 dB, RBW = VBW = 10 kHz, AVG detector, trace average 16, 20°C to 30°C, input impedance = 50 $\Omega$		
<b>LNA ON</b>	300 MHz to 3 GHz	-128 dBm typ
<b>LNA OFF</b>	300 MHz to 3 GHz	-108 dBm typ
<b>Level Display</b>		
Trace detectors	AVG; MAX; MIN	

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Trace functions	Clear write, max hold, average, cumulative, min/max hold	
<b>Frequency response</b>	300 – 3000 MHz; amplitude accuracy $\pm 1$ dBm	
<b>LNA</b>	Gain 300 – 3000 MHz +20 dB	
<b>RF Input Connector</b>	Impedance	50 $\Omega$ (nom.)
	Connector	SMA F
<b>Sweep</b>	Sweep time	
	@ RBW=300kHz, MIN SPAN=30MHz	MIN SPAN < 500 ms
<b>Display</b>	Type	
	Type	TFT LCD resistive touchscreen
	Resolution	480 x 272
	Size	4.3 inch (Diagonal)
	Active area	95 x 53.8 mm
<b>Mass memory</b>	8 GB	
<b>Input voltage</b>	5V DC 3A	
<b>Interface</b>	USB Type-C	
<b>Battery life</b>	up to 4h	
<b>Operating temperature</b>	-15°C to +55°C / 5°F to 131°F	
<b>Dimensions</b>	135 x 83 x 34 mm / 5.31 x 3.27 x 1.34 inch	
<b>Weight</b>	0.57 kg / 20.11 oz	

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

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