



# SPECTRUM COMPACT 6-20 GHz V.2

## JOSSAP52 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
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### 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
  - 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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<b>Frequency</b> <ul style="list-style-type: none"><li>▪ <b>Frequency Range</b> 5 925 – 20 000 MHz</li><li>▪ <b>Frequency Resolution</b> 30 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> 1.5 MHz to full</li></ul>		
<b>Bandwidth</b> (Performance Sweep Mode) <ul style="list-style-type: none"><li>▪ <b>RBW</b> 30 kHz; 100 kHz; 300 kHz; 1MHz</li><li>▪ <b>VBW</b> 1 kHz; 3 kHz; 10 kHz; 30 kHz; 100 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> 5.925 – 20 GHz < 2.0		
<b>Input attenuator</b> 30 dB with 5 dB step		
<b>SSB Phase Noise</b>  20°C to 30°C, Fc = 10 GHz Carrier offset                      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 = 30 kHz /RBW= 1 MHz, VBW = 1 kHz, AVG detector, trace average 16, 20°C to 30°C, input impedance = 50 $\Omega$ <b>LNA ON</b> 5.925 GHz to 20 GHz -110 dBm @ 30kHz; -100 dBm @ 1MHz RBW typ. <b>LNA OFF</b> 5.925 GHz to 20 GHz -90 dBm @ 30kHz; -75 dBm @ 1MHz RBW typ.		
<b>Level Display</b> Trace detectors                      AVG; MAX; MIN Trace functions                      Clear write, max hold, average, cumulative, min/max hold		
<b>Frequency response</b> 5.925 – 20 GHz; amplitude accuracy $\pm 1$ dBm		
<b>LNA ON/OFF</b> Gain 5.925 – 20 GHz                  +20 dB		
<b>RF Input Connector</b>  Impedance                              50 $\Omega$ (nom.) Connector                                SMA F		

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<b>Sweep</b>	
Sweep time @ RBW=1MHz, MIN SPAN=50MHz	MIN SPAN <= 200 ms
<b>Display</b>	
Type	Touchscreen
Resolution	480 x 3 (RGB) x 272
Size	4.3 inch
Color arrangement	RGB-stripe
<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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