



# SPECTRUM COMPACT 16-26.5 GHz V.2

## JOSSAP53 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

- ATT
  - RBW, VBW
  - Signal ID
- 

SAF Spectrum Compact 16-26.5 GHz v.2 datasheet

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



# SPECTRUM COMPACT 16-26.5 GHz V.2

## JOSSAP53 DATASHEET

<b>Frequency</b>		
▪	<b>Frequency Range</b> 16 000 – 26 500 MHz	
▪	<b>Frequency Resolution</b> 100 kHz	
▪	<b>Frequency Reference</b> Aging ±1.0 ppm/1 year Accuracy: ±2.5 ppm (25°C ±25°C) + aging	
▪	<b>Frequency span</b> 5 MHz to full	
<b>Bandwidth</b> (Performance Sweep Mode)		
▪	<b>RBW</b> 100 kHz; 300 kHz; 1MHz	
▪	<b>VBW</b> 1 kHz; 3 kHz; 10 kHz; 30 kHz; 100 kHz;	
<b>Amplitude Ranges</b>		
▪	Measurement Range DANL to 0 dBm	
Amplitude Accuracy (single sine wave input, Performance Sweep Mode) 20° C to 30° C Typical: ±1 dB		
<b>VSWR</b> 16 – 26.5 GHz < 1.9		
<b>Input attenuator</b> 0, 6, 10, 16, 20, 26, 30 dB		
<b>SSB Phase Noise</b>		
	20°C to 30°C, Fc = 21 GHz	
Carrier offset	100 kHz offset	<-80 dBc/Hz
<b>Maximum Input Level</b>		
DC voltage	0 V	
Max. Damage level	+ 25 dBm @ attenuator = 30 dB	
<b>Displayed Average Noise Level (DANL)</b>		
Attenuation = 0 dB, AVG detector, trace average 16, 20°C to 30°C, input impedance = 50 Ω		
<b>LNA ON</b>	16 GHz to 26.5 GHz < -105 dBm @ RBW=100kHz; -101 dBm @ RBW=1MHz	
<b>Level Display</b>		
Trace detectors	AVG; MAX; MIN	
Trace functions	Clear write, max hold, average, cumulative, min/max hold	
<b>Frequency response</b>		
16 – 26.5 GHz; amplitude accuracy ±1 dBm		
<b>RF Input Connector</b>		
	Impedance	50 Ω (nom.)
	Connector	2.92 mm F
<b>Sweep</b>		
Sweep time		
@ RBW=1MHz, MIN SPAN=50MHz	Sweep time < 200 ms	
<b>Display</b>		
Type	Touchscreen	

SAF Spectrum Compact 16-26.5 GHz v.2 datasheet

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



# SPECTRUM COMPACT 16-26.5 GHz V.2

## JOSSAP53 DATASHEET

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.

SAF Tehnika © 2021

*SAF Spectrum Compact 16-26.5 GHz v.2 datasheet*

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