



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
-

Settings

- LNA ON/OFF
 - RBW, VBW
-

SAF Spectrum Compact 0.3-3GHz datasheet

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



Frequency <ul style="list-style-type: none"> ▪ Frequency Range 300 – 3000 MHz ▪ Frequency Resolution 30 kHz ▪ Frequency Reference Aging ± 1.0 ppm/1 year Accuracy: ± 2.5 ppm ($25^{\circ}\text{C} \pm 25^{\circ}\text{C}$) + aging ▪ Frequency span 3 MHz to full 							
Bandwidth (Performance Sweep Mode) <ul style="list-style-type: none"> ▪ RBW 30 kHz 100 kHz 300 kHz ▪ VBW 3 kHz 10 kHz 30 kHz 100 kHz 300 kHz 							
Amplitude Ranges <ul style="list-style-type: none"> ▪ Measurement Range DANL to +20 dBm Amplitude Accuracy (single sine wave input, Performance Sweep Mode) 20°C to 30°C Typical: ± 1 dB							
VSWR 300 – 3000 MHz < 1.5							
Input attenuator 30 dB with 1 dB step							
SSB Phase Noise <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">20°C to 30°C, Fc = 1 GHz</td> <td></td> </tr> <tr> <td>Carrier offset</td> <td>100 kHz offset</td> <td style="text-align: right;">< -90 dBc/Hz</td> </tr> </table>			20°C to 30°C, Fc = 1 GHz		Carrier offset	100 kHz offset	< -90 dBc/Hz
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Maximum Input Level <table style="width: 100%; border: none;"> <tr> <td>DC voltage</td> <td>0 V</td> </tr> <tr> <td>CW RF power</td> <td>Attenuation = 30 dB ; + 20 dBm (100 mW), LNA = OFF</td> </tr> <tr> <td>Max. Damage level</td> <td>+ 27 dBm</td> </tr> </table>		DC voltage	0 V	CW RF power	Attenuation = 30 dB ; + 20 dBm (100 mW), LNA = OFF	Max. Damage level	+ 27 dBm
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Displayed Average Noise Level (DANL) <p style="text-align: center;">Attenuation = dB, RBW = VBW = 30 kHz, AVG detector, trace average > / 50, 20°C to 30°C, input impedance = 50 Ω</p> <table style="width: 100%; border: none;"> <tr> <td>LNA ON</td> <td>300 MHz to 3 GHz</td> <td style="text-align: right;">-125 dBm typ</td> </tr> <tr> <td>LNA OFF</td> <td>300 MHz to 3 GHz</td> <td style="text-align: right;">-105 dBm typ</td> </tr> </table>		LNA ON	300 MHz to 3 GHz	-125 dBm typ	LNA OFF	300 MHz to 3 GHz	-105 dBm typ
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Frequency response 300 – 3000 MHz; amplitude accuracy ± 1 dBm							
LNA Gain 300 – 3000 MHz +20 dB							
RF Input Connector <table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Impedance</td> <td>50 Ω (nom.)</td> </tr> <tr> <td style="text-align: right;">Connector</td> <td>SMA F</td> </tr> </table>		Impedance	50 Ω (nom.)	Connector	SMA F		
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Spectrum Compact

J0SSAP33 datasheet



Display	
Type	Touchscreen
Resolution	480 x 3 (RGB) x 272
Size	4.3 inch
Color arrangement	RGB-stripe
Mass memory	8 GB
Input voltage	5V DC 3A
Interface	USB Type-C
Battery life	up to 3h
Operating temperature	-15°C to +55°C / 5°F to 131°F
Dimensions	135 x 83 x 34 mm / 5.31 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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