

Spectrum Compact 2-8 GHz v.2

J0SSAP55 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
 - LNA ON/OFF
 - Signal ID ON/OFF
-

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Frequency	
▪ Frequency Range	2000 – 8000 MHz
▪ Frequency Resolution	30 kHz
▪ Frequency Reference	Aging ±1.0 ppm/1 year Accuracy: ±2.5 ppm (25°C ±25°C) + aging
▪ Frequency span	1.5 MHz to full
Bandwidth (Performance Sweep Mode)	
▪ RBW	30 kHz; 100 kHz; 300 kHz; 1MHz
▪ VBW	1 kHz; 3 kHz; 10 kHz; 30 kHz; 100 kHz;
Amplitude Ranges	
▪ Measurement Range	DANL to +20 dBm
Amplitude Accuracy (single sine wave input, Performance Sweep Mode) 20° C to 30° C Typical: ±1 dB	
VSWR	2 000 – 8 000 MHz < 1.5
Input attenuator	30 dB with 5 dB step
SSB Phase Noise	
	20°C to 30°C, Fc = 1 GHz
Carrier offset	100 kHz offset < -90 dBc/Hz
Maximum Input Level	
DC voltage	0 V
CW RF power	Attenuation = 30 dB ; + 20 dBm (100 mW), LNA = OFF
Max. Damage level	+ 25 dBm
Displayed Average Noise Level (DANL)	
Attenuation = 0 dB, RBW = 30 kHz / 1 MHz, VBW = 1 kHz, AVG detector, trace average 16, 20°C to 30°C, input impedance = 50 Ω	
LNA ON	2 GHz to 8 GHz; -119 dBm @ RBW = 30kHz; -105 dBm @ RBW = 1MHz typ.
LNA OFF	2 GHz to 8 GHz -97 dBm @ RBW = 30kHz; -84 dBm @ RBW = 1MHz typ.
Level Display	
Trace detectors	AVG; MAX; MIN
Trace functions	Clear write, max hold, average, cumulative, min/max hold
Frequency response	
2 – 8 GHz; amplitude accuracy ±1 dBm	
LNA	
Gain 2 – 8 GHz	+20 dB

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RF Input Connector	
Impedance	50 Ω (nom.)
Connector	SMA F
Sweep	
Sweep time @ RBW=1MHz, MIN SPAN=50MHz	MIN SPAN <= 200 ms
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 4h
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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