



SPECTRUM COMPACT 2-8 GHz V.2

JOSSAP55 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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Product features may vary between different models and configurations. They are subject to change without prior notice.



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Frequency <ul style="list-style-type: none">▪ Frequency Range 2000 – 8000 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 1.5 MHz to full	
Bandwidth (Performance Sweep Mode) <ul style="list-style-type: none">▪ RBW 30 kHz; 100 kHz; 300 kHz; 1MHz▪ VBW 1 kHz; 3 kHz; 10 kHz; 30 kHz; 100 kHz;	
Amplitude Ranges <ul style="list-style-type: none">▪ Measurement Range DANL to +20 dBm <p>Amplitude Accuracy (single sine wave input, Performance Sweep Mode) 20° C to 30° C Typical: ± 1 dB</p>	
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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