



SPECTRUM COMPACT 0.3–3 GHz

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JOSSAP33 DATASHEET



Measurements

- Channel Power (measures the total power in a specified bandwidth)
 - Adjacent channel power
 - Signal bandwidth
 - Center frequency
 - Interference detection
 - Mask
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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
 - Continuous sweep record
 - Recort-time plot display (pseudo-spectrogram)
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Sweep Functions

- Sweep: Continuous, Manual Trigger
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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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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
- RBW, VBW

Frequency		
▪ Frequency Range	300 – 3000 MHz	
▪ Frequency Resolution	10 kHz	
▪ Frequency Reference	Aging ±1.0 ppm/1 year Accuracy: ±2.5 ppm (25°C ±25°C) + aging	
▪ Frequency span	0.5 MHz to full	
Bandwidth (Performance Sweep Mode)		
▪ RBW	10 kHz; 30 kHz; 100 kHz; 300 kHz	
▪ VBW	1 kHz; 3 kHz; 10 kHz; 30 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 300 – 3000 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	+ 27 dBm	
Displayed Average Noise Level (DANL)		
Attenuation = 0 dB, RBW = VBW = 10 kHz, AVG detector, trace average		
16, 20°C to 30°C, input impedance = 50 Ω		
LNA ON	300 MHz to 3 GHz	-128 dBm typ
LNA OFF	300 MHz to 3 GHz	-108 dBm typ
Level Display		
Trace detectors	AVG; MAX; MIN	



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Trace functions	Clear write, max hold, average, cumulative, min/max hold	
Frequency response	300 – 3000 MHz; amplitude accuracy ± 1 dBm	
LNA	Gain 300 – 3000 MHz +20 dB	
RF Input Connector	Impedance Connector	50 Ω (nom.) SMA F
Sweep	Sweep time @ RBW=300kHz, MIN SPAN=30MHz	MIN SPAN < 500 ms
Display	Type Resolution Size Active area	TFT LCD resistive touchscreen 480 x 272 4.3 inch (Diagonal) 95 x 53.8 mm
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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