Spectrum Compact 0.3-3 GHz
JOSSAP33 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
- Continuous sweep record
- Recort-time plot display (pseudo-spectrogram)

Sweep Functions
- Sweep: Continuous, Manual Trigger

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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
- Carrier offset 20°C to 30°C, Fc = 1 GHz
- 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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## Spectrum Compact 0.3-3 GHz

### 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**: 50 Ω (nom.)
- **Connector**: SMA F

### Sweep
- **Sweep time**
  - @ RBW=300kHz, MIN SPAN=30MHz
  - MIN SPAN < 500 ms

### Display
- **Type**: TFT LCD resistive touchscreen
- **Resolution**: 480 x 272
- **Size**: 4.3 inch (Diagonal)
- **Active area**: 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

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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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