# Spectrum Compact 70-87 GHz

JOSSAP80 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
- Span: Max Span, Min Span, Selected Span

## Save

- Proprietary format
- Saves actual data
- Continuous sweep record

# **Sweep Functions**

Sweep: Continuous, Manual Trigger

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#### **Trace Functions**

Trace operations: Normal, Max hold, # of Averages, Cumulative

#### **Marker Functions**

Marker: Peak search, set marker to center

#### Settings

- Detector MIN, AVG, MAX
- Signal ID

#### Remote control

- Spectrum Manager PC software
- API commands

## Frequency

- Frequency Range 70 000 87 000 MHz
- Frequency Resolution 10 MHz
- Frequency Reference Aging ±1.0 ppm/1 year

Accuracy: ±2.5 ppm (25°C ±25°C) + aging

■ Frequency span 1000 MHz to full

# Bandwidth (Performance Sweep Mode)

- **RBW** 10 MHz
- **VBW** 300 kHz;

# **Amplitude Ranges**

■ Measurement Range DANL to -30 dBm

Amplitude Accuracy (single sine wave input, Performance Sweep Mode)

20° C to 30° C Typical: ±1 dB

## **VSWR**

at 71 000 MHz < 3.0 typ. at 86 000 MHz < 1.4 typ.

## SSB Phase Noise on RF input

20°C to 30°C

Carrier offset 100 kHz offset <= -80 dBc/Hz

# **Maximum Input Level**

DC voltage 0 V

CW RF power -30 dBm (0.001 mW),

Max. Damage level 0 dBm (1mW)

## **Displayed Average Noise Level (DANL)**

AVG detector, trace average 16, 20°C to 30°C, input impendence = 50  $\Omega$ 

-90 dBm @ RWB = 10 MHz

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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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**Level Display** 

Trace detectors AVG; MAX; MIN

Trace functions Clear write, max hold, average, cumulative,

min/max hold

Frequency response

300 - 3000 MHz; amplitude accuracy ±1 dBm

**RF Input Connector** 

 $\begin{array}{ll} \text{Impedance} & \quad 50~\Omega~\text{(nom.)} \\ \text{Connector} & \quad \text{Waveguide flange} \end{array}$ 

UG387/U

Sweep

Sweep time

MIN SPAN=1000 MHz 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

USB micro: 5V DC 1.5A DC input: 5.9V DC 3A

Interface USB micro

Battery life up to 3h

Operating temperature -15°C to +55°C / 5°F to 131°F

**Dimensions** 147 x 83 x 34 mm / 5.79 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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