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, Fill, MinMax Hold
- Span: Full 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, MinMax Hold

Marker Functions
- Marker: Peak search, set marker to center

Settings
- RBW, VBW

SAF Spectrum Compact 24-40/43 GHz v.2 datasheet
Product features may vary between different models and configurations. They are subject to change without prior notice.
## Spectrum Compact 24-40/43 GHz v.2

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

### Frequency
- **Frequency Range** 24 000 – 40 000 / 43 000 MHz
- **Frequency Resolution** 100 kHz
- **Frequency Reference** Aging ±1.0 ppm/1 year
  
  Accuracy: ±2.5 ppm (25°C ±25°C) + aging
- **Frequency span** 10 MHz to full

### Bandwidth (Performance Sweep Mode)
- **RBW** 100 kHz
- **VBW** 1 KHz
- **Attenuation** 3 kHz 10 kHz 30 kHz 100 kHz

### Amplitude Ranges
- **Measurement Range** DANL to -40 dBm
- **Amplitude Accuracy** (single sine wave input, Performance Sweep Mode)
  
  20°C to 30°C Typical: ±1 dB

### VSWR
- 24 000 – 40 000 / 43 000 MHz < 1.9 (10 dB)

### Maximum Input Level
- **DC voltage** 0 V
- **CW RF power** Attenuation = 0 dB ; 0 dBm (1 mW)
- **Max. Damage level** 0 dBm

### Displayed Average Noise Level (DANL)

\[
\text{RBW} = \text{VBW} = 100 \text{ kHz, AVG detector, trace average >/ 50, 20°C to 30°C, input impedance = 50Ω} \\
\text{24 000 MHz to 32 000 MHz} & \ -105 \text{ dBm typ} \\
\text{32 000 MHz to 40 000 / 43 000 MHz} & \ -100 \text{ dBm typ}
\]

### Level Display
- **Trace detectors** AVG; MAX; MIN
- **Trace functions** Clear write, max hold, average, cumulative, minmax hold

### Frequency response
- 24 000 – 40 000 / 43 000 MHz; amplitude accuracy ±1 dBm

### RF Input Connector

<table>
<thead>
<tr>
<th>Impedance</th>
<th>50 Ω (nom.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector</td>
<td>2.92mm</td>
</tr>
</tbody>
</table>

### Sweep
- **Sweep time**
  - @ RBW=VBW=100kHz, MIN SPAN=10MHz : Sweep time = 200 ms
<table>
<thead>
<tr>
<th><strong>Display</strong></th>
<th><strong>Touchscreen</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>480 x 3 (RGB) x 272</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>4.3 inch</td>
</tr>
<tr>
<td><strong>Color arrangement</strong></td>
<td>RGB-stripe</td>
</tr>
<tr>
<td><strong>Mass memory</strong></td>
<td>8 GB</td>
</tr>
<tr>
<td><strong>Input voltage</strong></td>
<td>5V DC 3A</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>USB Type-C</td>
</tr>
<tr>
<td><strong>Battery life</strong></td>
<td>up to 3h</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-15°C to +55°C / 5°F to 131°F</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>135 x 83 x 34 mm / 5.31 x 3.27 x 1.34 inch</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>0.57 kg / 20.11 oz</td>
</tr>
</tbody>
</table>

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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