

# Line-of-Sight verification kit introduction



**SAF LoS verification kit** is a small size, handheld battery operated solution that uses radio frequencies to verify microwave point to point radio line of sight.

Learn more on how to use line of sight verification kit in this [solution guide](#).

## Benefits:

- Verification for distances of up to 85 km / 52 miles, using small antennas
- Battery operated solution, no external power source required
- Easy to take up on the tower
- LoS verification before actual link installation
- Easy to use, quick measurements
- Reliable results applicable for PtP links operating in frequencies from 5 GHz up to 38 GHz

### SG Compact signal generator side

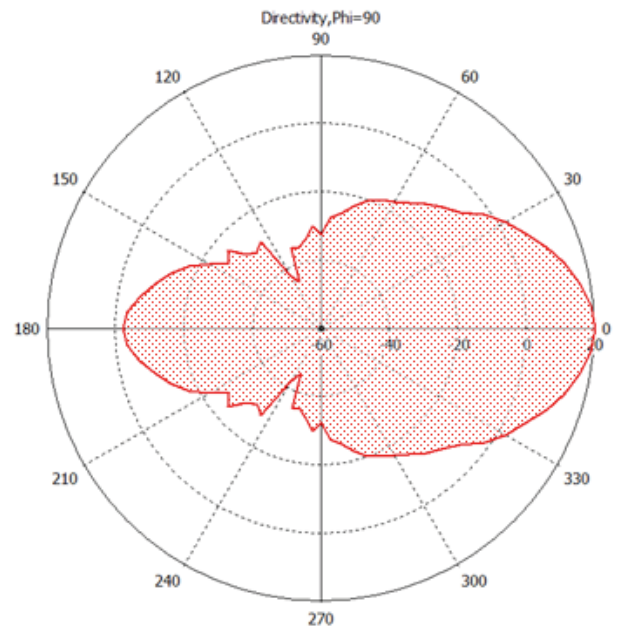
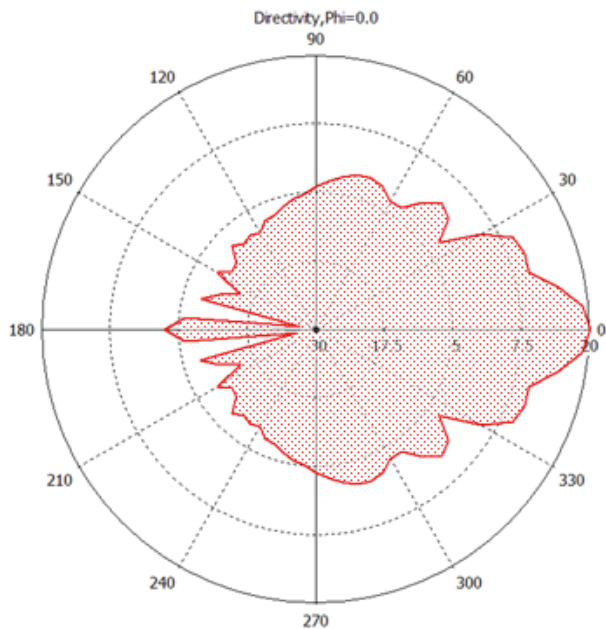
P/N	J0SSAG11
Frequency range	5.925 – 12.000 GHz
Output power range	-3...+13 dBm
Frequency accuracy	+/- 10 ppm
Phase noise	< -80 dBc / Hz @ 100 kHz
Adjustable frequency step	1 MHz
Adjustable power step	1 dBm
Signal form	Continuous wave
Sweep speed	0.5s @ 100 MHz Span
Accuracy	+/- 1 dB*
Output	50 ohm SMA (f)
Interface	Mini USB 2.0 (1.1)
Battery	2380 mAh Lithium Polymer
Battery life	up to 4h
Operating temperature	-15 °C to +55 °C / 5 °F to 131 °F
Dimensions	128 x 81 x 24 mm 5.04 x 3.2 x 0.94 in
Weight	0.3 kg / 10.6 oz

\* Guaranteed throughout all the temperature range

### Spectrum Compact spectrum analyzer side

P/N	J0SSAP52
Frequency range	5.925 – 20.0 GHz
Input dynamic range	-105 to – 40 dBm
Max input power	0 dBm
RBW	1 MHz
VBW	300 kHz
Min. Span	100 MHz
Max. Span	full bandwidth
Sweep speed	0.5s @ Min. Span
Accuracy	+/- 1 dB*
Input	50 ohm SMA (f)
Interface	mini USB 2.0 (1.1)
Battery	2380 mAh Lithium Polymer
Battery life	up to 4h
Operating temperature	-15 °C to +55 °C / 5 °F to 131 °F
Dimensions	128 x 81 x 24 mm 5.04 x 3.2 x 0.94 in
Weight	0.3 kg / 10.6 oz

\* Guaranteed at 21 °C / 70 °F CW signal



## Electrical and mechanical specifications for LoS antenna

<b>P/N</b>	J0AA06R001
<b>Frequency range</b>	5.925 – 8.20 GHz
<b>Gain (typical)</b>	21 dBi
<b>Dimensions</b>	250 x 235 x 155 mm 9.84 x 9.25 x 6.10 inch
<b>Net weight</b>	1.25 kg / 2 lb
<b>Flange (connector)</b>	WR173 (UDR70)
<b>Matching Spectrum Compact unit</b>	J0SSAP52
<b>Matching Signal Generator unit</b>	J0SSAG11
<b>Beamwidth (E-plane)</b>	14.3°
<b>Side lobe level (E-plane)</b>	-9.5 dB
<b>Beamwidth (H-plane)</b>	17.6°
<b>Side lobe level (H-plane)</b>	-22.4 dB
<b>Front-to-Back ratio</b>	22.38



## What you will get:

- Spectrum analyzer Spectrum Compact 6 – 20 GHz v.2
- Signal generator SG compact 6 – 12 GHz
- 2x 21 dBi small horn antenna with mounting bracket
- 2x waveguide adapter UDR70 to SMA, 5.38 – 8.2 GHz, WR137
- 2x 2.92 mm coaxial RF cable
- 2x lanyard
- 2x USB to mini USB cable
- 2x AC/DC USB charger
- 2x protective case
- RF filter with 9 GHz cut-off frequency



## SpectrumCompact.com

For more detailed information about SAF Tehnika products visit [www.saftehnika.com](http://www.saftehnika.com) or contact your SAF Tehnika representative [info@saftehnika.com](mailto:info@saftehnika.com). Product features may vary between different models and configurations. They are subject to change without prior notice. SAF Tehnika © 2022