

# Highlights

Innovative Designs and High Quality Products from WORK Microwave

## Handheld Satcom Test Source

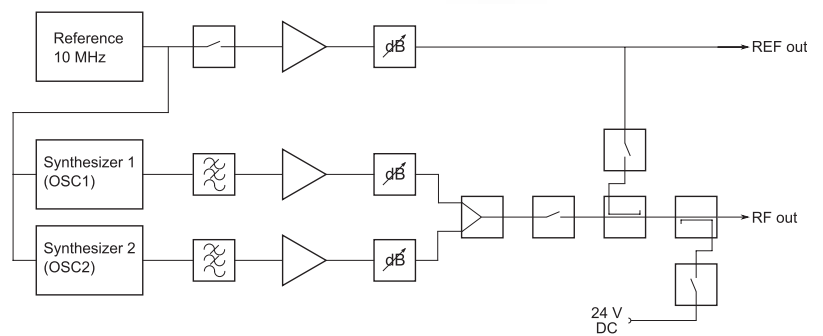
WORK Microwave introduces an ideal product for the testing of satellite frequency converters, amplifiers or any systems requiring very high spectral purity signals.

The Handheld Satcom Test Source has been designed to make your measurement experience simple and error-free all without straining your budget.



### Typical applications

- Signal source for measurement of different parameters of satellite up-converters:
  - Intermodulation
  - 1 dB Compression Point
  - Conversion Gain
- Usable as ordinary low phase noise dual carrier signal generator
- Combined source for block-up converters (L-Band, 10 MHz and 24 V DC)



RF and Reference section, simplified block diagram

### Product Features

- ✓ **Two Tone Output**
- ✓ **Small, very Portable**
- ✓ **High Signal Quality**
- ✓ **Two Independent Synthesizers**
- ✓ **Quick and Easy Set Up**
- ✓ **10 MHz Reference Output with Adjustable Power**
- ✓ **Power Supply**
- ✓ **Capable to Drive a Block-Up Converter**

### User Benefits

- Eliminates the need for two separate signal sources providing a more manageable and cost efficient solution.
- Compact and robust mechanical design that is easy to transport.
- Low system intermodulation in two tone mode or low phase noise in single tone mode.
- Adjustable in power and frequency.
- Signal configuration can be stored within the unit for use without PC.
- Removes the need for an additional reference source.
- Versatile options: Internal Li-Polymer battery, ext 24 V DC SMPS or powered by USB.
- Unit can provide L-Band, 10 MHz reference and DC output on the same connector.



## Specification

Model No.	HTS-VL			
Frequency range	50 MHz to 180 MHz and 950 MHz to 2150 MHz			
Frequency resolution	0.5 MHz			
Output level	-45 dBm to -5 dBm			
Output level resolution	0.5 dB			
Level tolerance	± 1 dB			
Output impedance	50 Ohm			
Output mute	< -60 dBc			
Phase Noise	50 MHz	180 MHz	950 MHz	2150 MHz
100 Hz offset	< -110 dBc/Hz	< -100 dBc/Hz	< -85 dBc/Hz	< -78 dBc/Hz
1 kHz offset	< -115 dBc/Hz	< -105 dBc/Hz	< -90 dBc/Hz	< -83 dBc/Hz
10 kHz offset	< -120 dBc/Hz	< -110 dBc/Hz	< -95 dBc/Hz	< -88 dBc/Hz
100 kHz offset	< -140 dBc/Hz	< -130 dBc/Hz	< -115 dBc/Hz	< -108 dBc/Hz
1 MHz offset	< -150 dBc/Hz	< -150 dBc/Hz	< -135 dBc/Hz	< -128 dBc/Hz
Spurious (single tone)	50 MHz to 180 MHz		950 MHz to 2150 MHz	
< 1 MHz offset	< -75 dBc		< -45 dBc	
elsewhere	< -75 dBc		< -70 dBc	
Harmonics (single tone)	< -30 dBc			
System Intermodulation	50 MHz	180 MHz	950 MHz	2150 MHz
Pout < -5 dBm	< -60 dBc	< -60 dBc	< -60 dBc	< -60 dBc
Pout < -18 dBm	< -85 dBc	< -85 dBc	< -85 dBc	< -80 dBc
Pout < -25 dBm	< -90 dBc	< -90 dBc	< -85 dBc	< -80 dBc
Reference output	10 MHz, -10 dBm to +10 dBm, 0.5 dB steps			
Reference frequency stability	± 1 x 10 <sup>-7</sup> , 0°C to 50°C ± 2 x 10 <sup>-9</sup> per day			
Temperature Range				
charging battery	0°C to +40°C			
operating	0°C to +50°C			
Power supply	ext. 24 V DC SMPS, USB, internal lithium ion battery			
Power Consumption				
charging battery	max. 12 W			
else	max. 6 W			
Connectors				
RF out:	50 Ohm SMA female			
REF out:	50 Ohm BNC-female			
USB 2.0	USB Standard type B			
Weight	approx. 1.5 kg			
Dimensions (L x W x H)	250 x 125 x 74 mm			

Specifications are subject to change

### Our experienced engineers are here to help!

Please contact [support@work-microwave.de](mailto:support@work-microwave.de) with any questions you have about the Handheld Satcom Test Source or any of our products.

### Request your free copy of our latest catalogue

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