

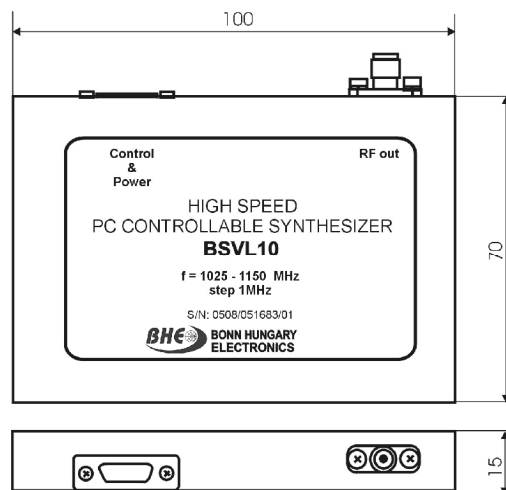
**FAST SWITCHING
LOW PHASE NOISE SYNTHESIZER**

- **PC CONTROLLABLE**
- **VERY LOW PHASE NOISE**
- **FAST SWITCHING**
- **LOW POWER CONSUMPTION**
- **SMALL SIZE**

This high quality, low phase noise, fast switching synthesizer is intended for use in air-borne applications under harsh environmental conditions.

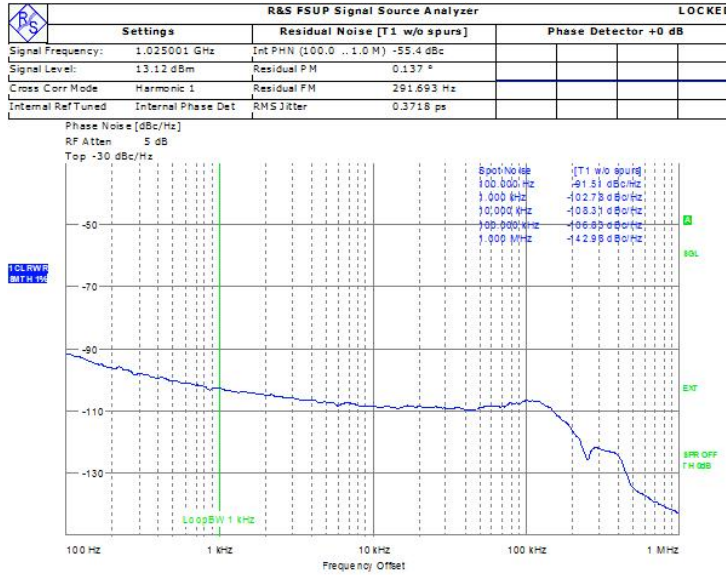
Electrical characteristics:

Output Frequency Range	1025 -1150 MHz
Frequency steps	1 MHz
Output Power Level	+14 dBm \pm 1dB
Switching Time	<250 μ s
Spurious	<-60 dBc
Harmonics	<-30 dBc
Phase Noise (static)	-90dBc/Hz typ., -80 dBc/Hz max. @ 100 Hz -103dBc/Hz typ.,-100 dBc/Hz max. @ 1 KHz
Phase Noise under 0.04 g ² /Hz random vibration	<-38 dBc/Hz @ 100 Hz <-70 dBc/Hz @ 1 kHz
Frequency stability under 0.04 g ² /Hz random vibration	\pm 1 ppm
AM Noise	-140dBc/Hz typ., -136 dBc/Hz max. from 1 kHz to 1 MHz
Frequency accuracy over temperature range	better than +/-50kHz
Operating Temp. Range	-40 to +70 °C
Storage Temp. Range	-55 to +95 °C
Output RF Connector	SMA female
Control & Supply connector	Micro D-SUB15, Male
Supply Voltage	+15 VDC +/-0.5V / 165mA typ. -15 VDC +/-0.5V/10mA typ.
Mechanical Environment	MIL-STD 810F
EMC	MIL-STD 461E, CE101, CE102,CS114,CS115

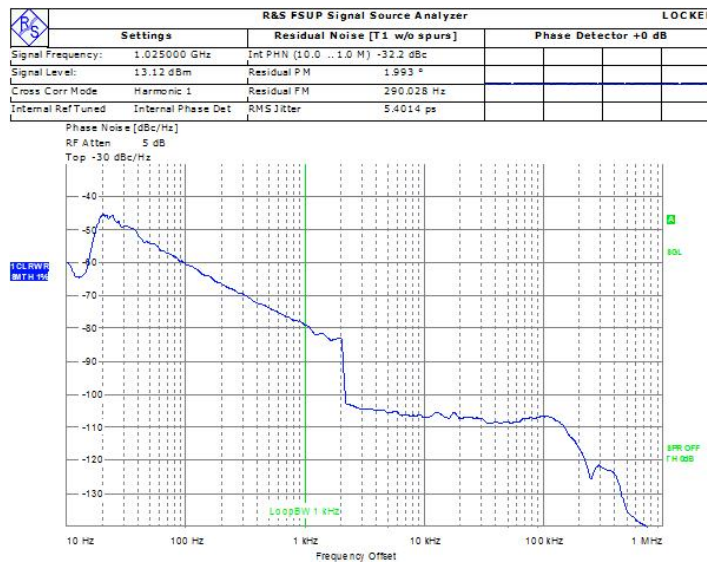
Outline dimensions (mm):



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Phase noise plot



Phase noise under vibration





BSVL10

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Picture

