



**BONN HUNGARY  
ELECTRONICS**

**PC CONTROLLABLE  
ECONOMY  
SYNTHESIZER**

**BSEF  
Family  
NDS # 301**

an ISO 9001 Certified Company



- **ECONOMY SOLUTION**
- **DIRECTLY PC CONTROLLABLE**
- **COMPACT SIZE**

This family of PC controllable synthesizer is intended for use in test setups as local synthesizer, where compact size and modest price are important factors. The unit is supplied with a control software. The synthesizer can be controlled through the parallel printer port by using any IBM compatible PC without using any extra control card. Main applications are in telecommunication equipment, satellite and communications receivers and communication monitoring equipment.

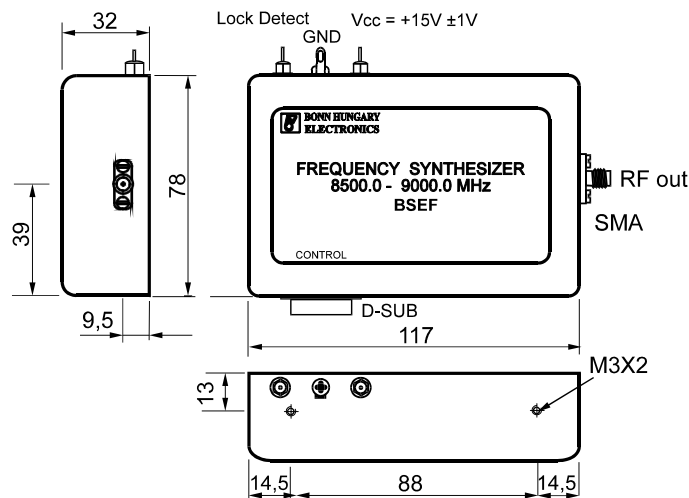
**ELECTRICAL CHARACTERISTICS:**

Frequency Range	3 GHz to 13 GHz in 5-25 % BW	example: 7,5 to 8 GHz
Frequency Steps	50, 100, 500 or 1000 KHz	500 KHz
Output Power	+10 dBm	+10 dBm
Internal Reference Stability	± 2 ppm (opt. ± 0.2 ppm)	± 2 ppm ( opt. ± 0.2 ppm)
SSB Phase Noise @ 1KHz	< -80 ... -60 dBc/Hz (*)	< -60 dBc/Hz
@ 10 KHz	< -95 ... -65 dBc/Hz (*)	< -70 dBc/Hz
@ 100 KHz	< -110 ... -85 dBc/Hz (*)	< -95 dBc/Hz
Spurious @ in band	< -75 ... -55 dBc	< -65 dBc
Spurious @ out of band	< -75 ... -35 dBc	< -40 dBc
Power Supply	12 ... 22 V / 200 mA DC	15 V / 220 mA DC
Operating Temperature Range	0 to +50 °C (opt. -20 to + 60 °C)	- 20 to + 60 °C
Alarm Out	optional	optional
PC Connection	9 or 25 pin D-sub	25 pin D-sub
Control Software	supplied on disc	supplied on disc

(\*) Depends on the actual frequency band and step size.

Specifications are subject to change without notice.

**OUTLINE DIMENSIONS (mm):**



**BONN Elektronik**  
RF Systems, Instruments and Components



Rudolf-Diesel-Str.18 · D-85521 Ottobrunn · Tel +49 (0)89/608 754-0 · Fax +49 (0)89/608 754-99  
email: info@bonn-elektronik.com · home: www.bonn-elektronik.com