

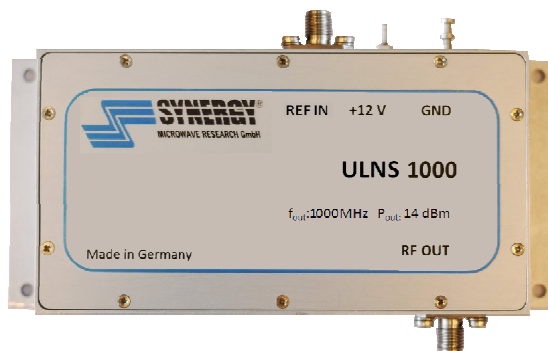
Preliminary Datasheet

Features:

- ▶ Ultra Low Phase-Noise Performance
- ▶ High Temperature Stability
- ▶ Options:
 - Up to 5dB Better Phase-Noise- Selections Available
 - External Synchronization (10 MHz)
 - Internal GPS Reference
 - Second Ultra-Low-Phase-Noise-Output @ $f_n/8$, $f_n/4$ or $f_n/2$
- ▶ Other Frequencies On Request
- ▶ ITAR-Free

Applications:

- ▶ Communication Systems
- ▶ Instrumentation, Bit-Error-Rate Testsystems
- ▶ Mil-Applications, Radar Systems, Radar Simulators
- ▶ Laboratory Equipment, Test Benches
- ▶ Medical Applications (CTR)



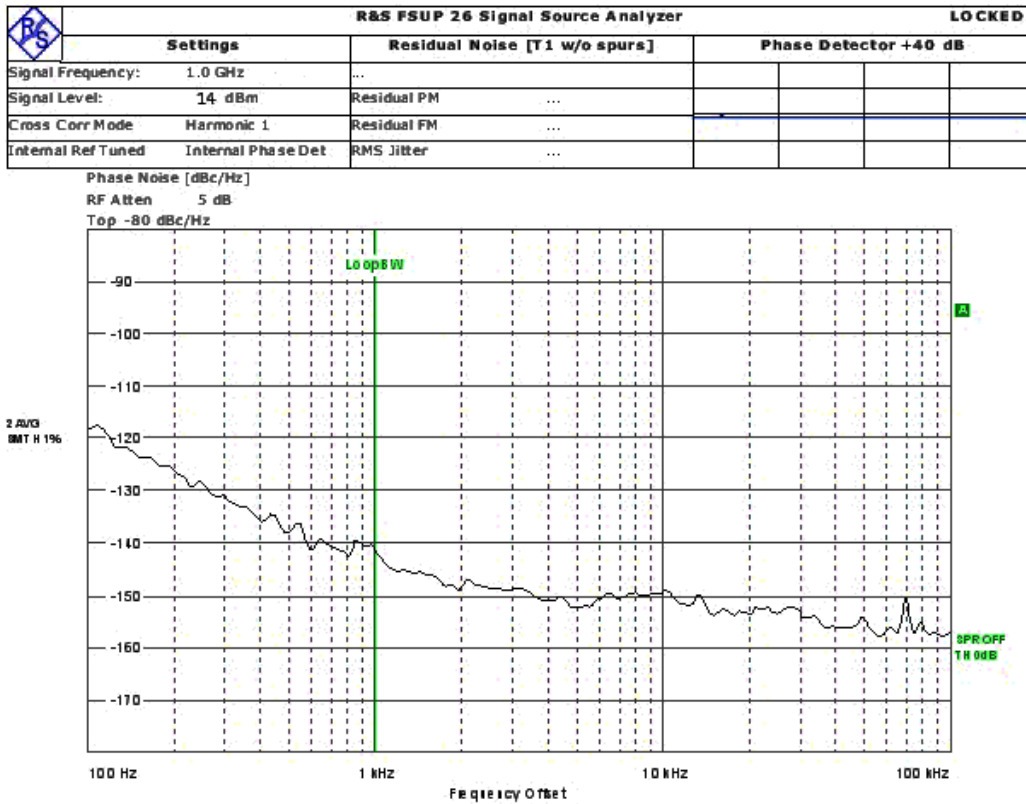
Specifications

All values @ $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameter		
Nominal Frequency	1000MHz	*
Initial Frequency Tolerance	t.b.d.	After 30 min. warm-up
Frequency Stability	t.b.d.	
Aging	t.b.d.	
Supply Voltage	+12V \pm 5%	
Current Consumption	max. 1200 mA	During warm-up
	max. 1000 mA	Steady State
Output Signal Form	Sine Wave	
Output Power	+14 dBm \pm 2dB	
Output Nominal Impedance	50 Ohm	
Frequency Control Range	min. \pm 2ppm	
Frequency Control Voltage Range	0 ... +10 V	Input Impedance >10kOhm
Harmonic Suppression	40dB (Typ.)	
Subharmonic Suppression	50dB (Typ.)	
Spurious Suppression	75dB (Typ.)	
Temperature Range	Operating	-25 ... +75°C
	Storage	-45 ... +90°C
SSB-Phase-Noise [dBc/Hz]	Standard	* Option: LN A-Grade
	100 Hz	< -118
	1 KHz	< -143
	10 KHz	< -152
	100 KHz	< -158
Reference Input *10MHz	max. 0,5V _{rms}	Input Impedance >5kOhm
Case Dimensions (LxWxH) [mm]	130x60x20	Excluding Connectors
Connectors	Input	REF-IN Supply voltage Frequency control voltage Ground
	Output	RFx-OUT
		Solderable Feed-Thru Contact
		SMA Female

* For other requirements please contact SMR GmbH

Phase-Noise-Measurement



Outline Drawing

