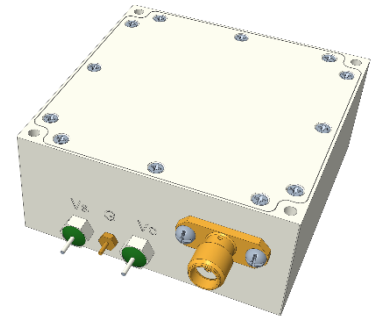


VMOC1G-5050-S-12-I-SMA

FEATURES

- ◆ High Frequency Stability
- ◆ Wide Temperature Range
- ◆ Fast Warming-up
- ◆ Ultra Low Phase Noise



TYPICAL APPLICATIONS

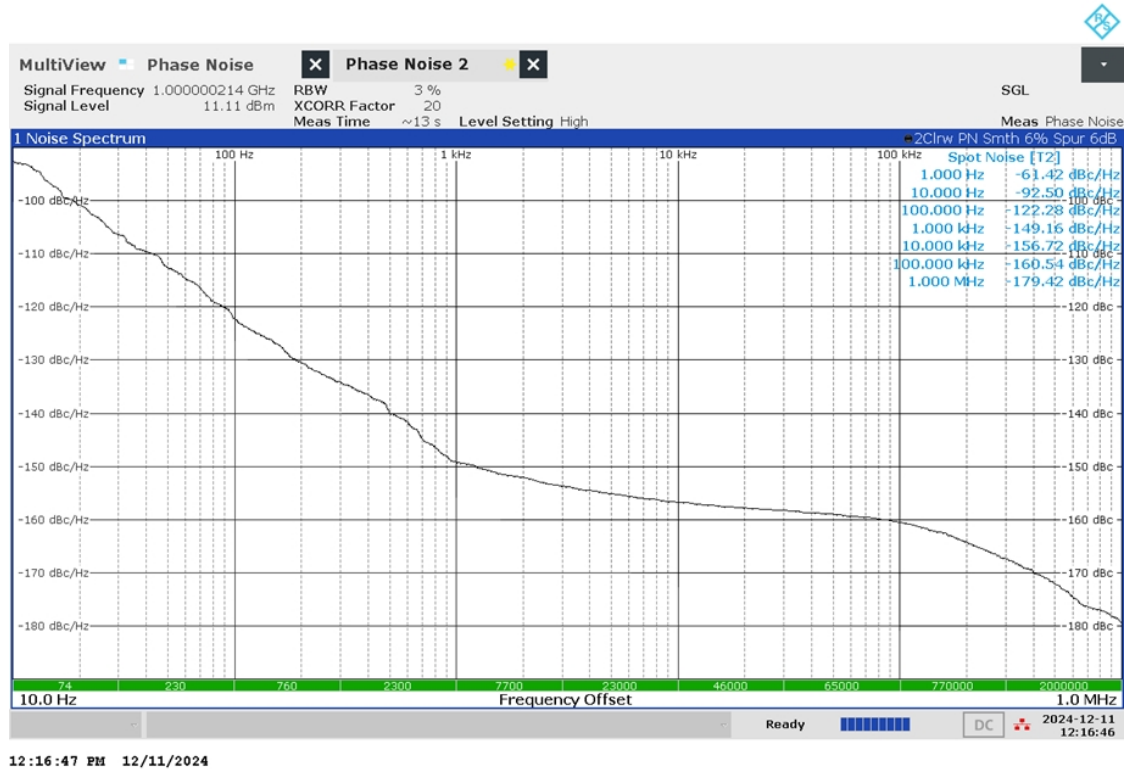
- ◆ Test & Measurement
- ◆ TR Module
- ◆ Base Stations
- ◆ Synthesizer

SPECIFICATIONS

PARAMETER	PERFORMANCE	UNIT	CONDITION
Nominal Frequency	1	GHz	
Input Voltage	12.0	V	$V_{CC} \pm 5\%$
Frequency Accuracy	$\leq \pm 0.2$	ppm	Control Voltage 2.5V, @25°C
Control Voltage	0 ~ 5.0	V	
Frequency Pulling Range	$\geq \pm 0.5$	ppm	
Linearity	10%		
Tuning Slope	Positive		
Operating Temperature	-40 ~ +70	°C	
Storage Temperature	-50 ~ +90	°C	
Aging	0.3	ppm/year	30days
Frequency Vs Temperature Stability	$\leq \pm 0.1$	ppm	
Frequency Vs. Voltage	$\leq \pm 5$	ppb	$V_{CC} \pm 5\%$
Frequency Vs. Load	$\leq \pm 5$	ppb	Load $\pm 5\%$
Output Waveform	Sine		
Output Power	≥ 5	dBm	
Harmonics	≤ -30	dBc	
Spurious	≤ -70	dBc	
Output Load	50	Ω	
Phase Noise (Type $\pm 2\text{dB}$)	-90	dBc/Hz	10 Hz
	-120		100 Hz
	-145		1 kHz
	-155		10 kHz
	-158		100 kHz
	-175		1 MHz

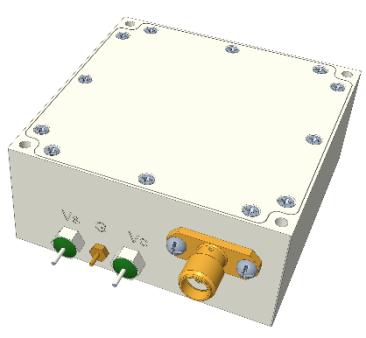
	-177		10 MHz
Stable Current	≤ 300	mA	25°C
Initial Current	≤ 600	mA	25
Warm-up Time	≤ 5	minutes	0.1ppm, relative to one hour later Frequency
Profile Size	50.8×50.8×22	mm	

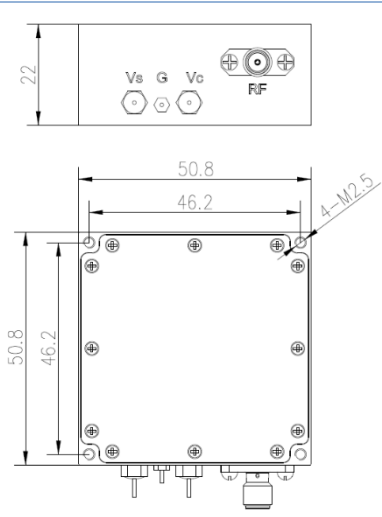
SSB PHASE NOISE PERFORMANCE CURVES



OUTLINE DRAWING

Size: 50.8×50.8×22 mm





PIN:

RF: RF Output

G: GND

Vs: Power

Vc: Frequency Control

PS: Vc (Frequency control function (Vc)) Pin can be no connected.