

VMVO2100M4000M-5SM127

FEATURES

- ◆ Exceptional Phase Noise
- ◆ Small Size
- ◆ Surface Mount



TYPICAL APPLICATIONS

- ◆ ECM
- ◆ Radar
- ◆ Communications

SPECIFICATIONS

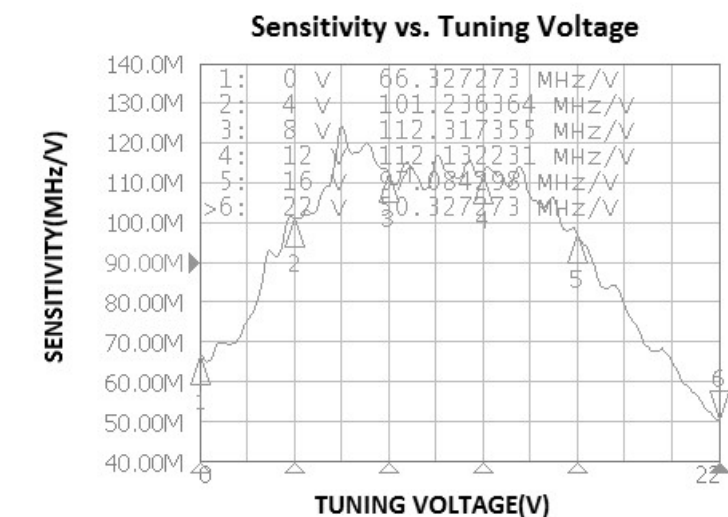
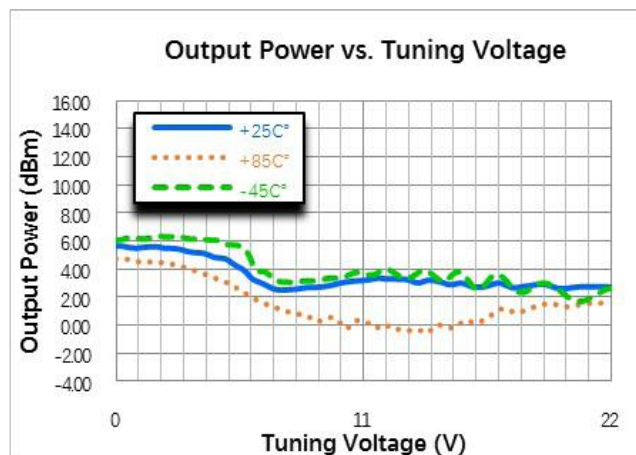
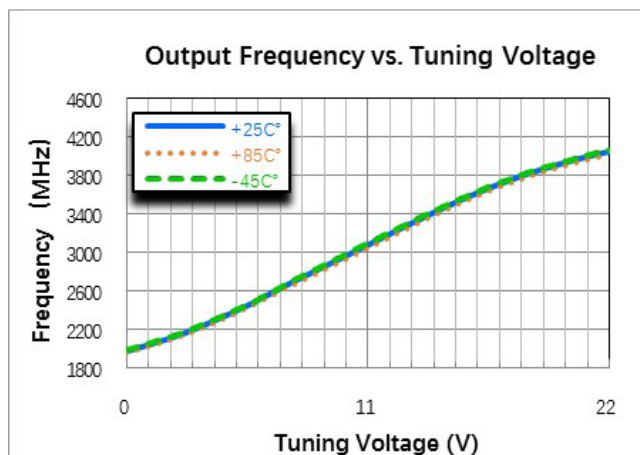
Parameter	Unit	Min.	Typ.	Max.	Test Conditions
Frequency	MHz	2100	-	4000	
Tuning Voltage	V	1	-	22	
Tuning Sensitive	MHz/V	-	100	-	
Pout	dBm	-2	3	-	
SSB Phase Noise	dBc/Hz	-	-58	-	@1kHz
		-	-84	-	@10kHz
		-	-108	-	@100kHz
Harmonic Suppression	dBc	-	-10	-	
Spurious Suppression	dBc	-	-80	-70	
Pushing	MHz	-	1	-	
Load Pulling	MHz	-	1	-	12dB RL
Tuning Capacitor	pF	-	18	-	
Input Impedance	Ω		50		
Output Impedance	Ω	-	50	-	
Frequency Temp. Drift	MHz	-	50	-	-45°C~+85°C
Vdd	V	4.75	5	5.25	
Idd	mA	-	30	35	
Storage Temperature	°C	-55	-	+85	

ABSOLUTE MAXIMUM RATINGS

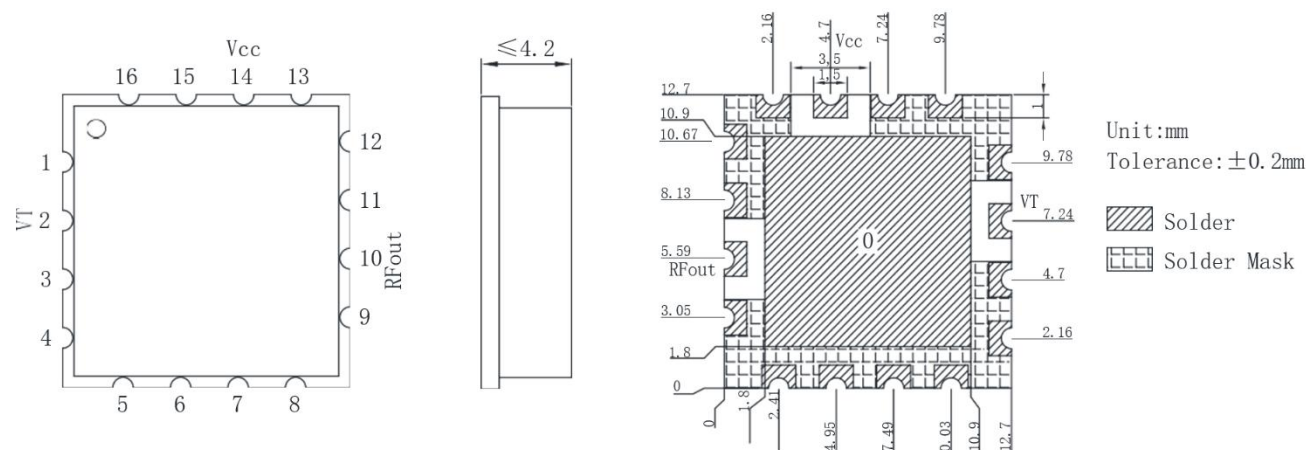
Parameter	Max. Rating
Storage Temperature	-55°C ~ +125°C
Voltage Supply	+5.5V

Tuning Voltage	+25V
ESD Level	EPA Class 1

TYPICAL PERFORMANCE CURVE



OUTLINE AND SIZE



SOLDERING INSTRUCTIONS

Reflow soldering: The peak temperature should not exceed 215°C, and more than two reflow cycles should be avoided.

Manual soldering: With a soldering iron, the temperature should not exceed 350°C, and the soldering time should be less than 3 seconds.