

VMVO193M231M-5SM127

FEATURES

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



TYPICAL APPLICATIONS

- ◆ ECM
- ◆ Radar
- ◆ Communications

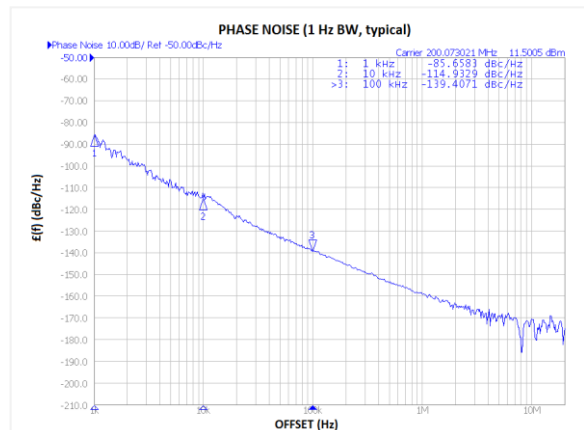
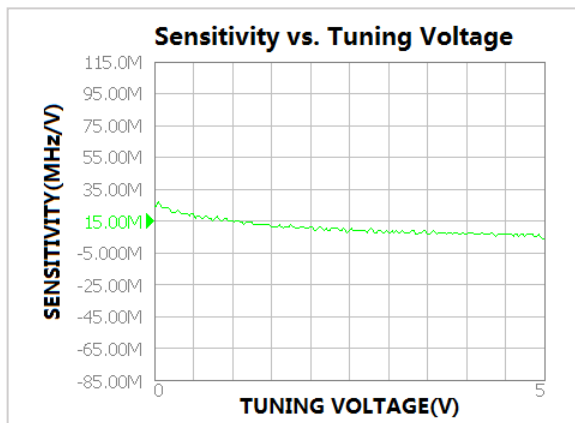
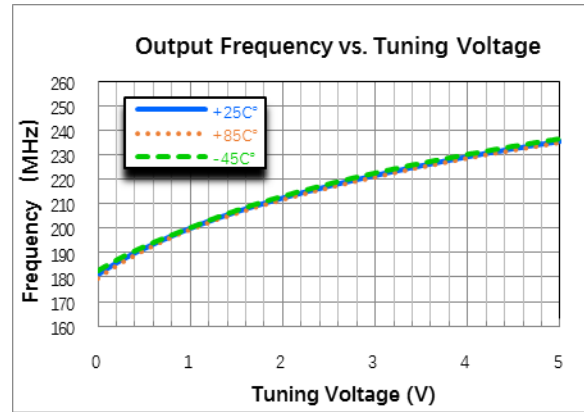
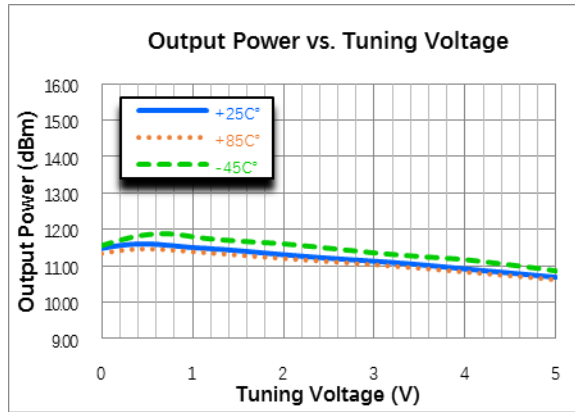
SPECIFICATIONS

Parameter	Unit	Min.	Typ.	Max.	Test Conditions
Frequency	MHz	193	-	231	
Tuning Voltage	V	0.5	-	4.5	
Tuning Sensitive	MHz/V	-	10	-	
Pout	dBm	7	11	-	
SSB Phase Noise	dBc/Hz	-	-85	-	@1kHz
		-	-114	-	@10kHz
		-	-139	-	@100kHz
Harmonic Suppression	dBc	-	-6	-	
Spurious Suppression	dBc	-	-80	-70	
Pushing	MHz	-	1.7	-	
Tuning Capacitor	pF	-	100	-	
Input Impedance	Ω		10		
Output Impedance	Ω	-	50	-	
Frequency Temp. Drift	MHz	-	1.5	-	-45°C~+85°C
Vdd	V	4.75	5	5.25	
Idd	mA	-	16	20	
Storage Temperature	°C	-55	-	+85	

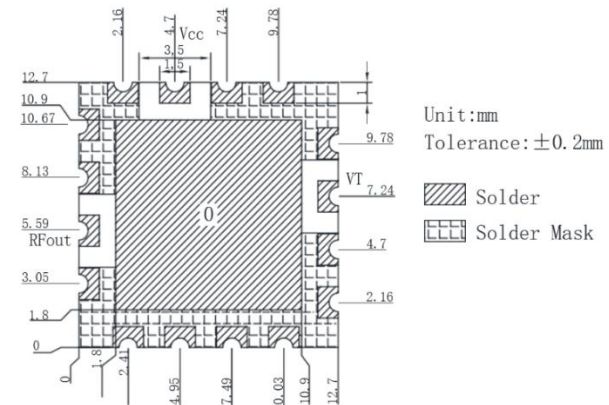
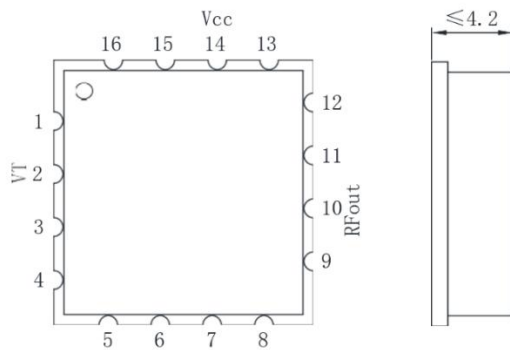
ABSOLUTE MAXIMUM RATINGS

Parameter	Max. Rating
Storage Temperature	-55°C ~ +125°C
Voltage Supply	+5.5V
Tuning Voltage	+7V
ESD Level	EPA Class 1

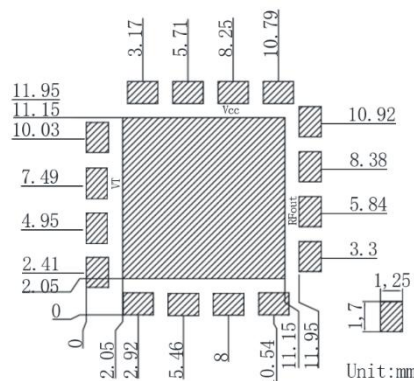
TYPICAL PERFORMANCE CURVE



OUTLINE AND SIZE



LAYOUT SUGGEST



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.