

VMVO914M1600M-5SM127

FEATURES

- ◆ Exceptional Phase Noise
- ◆ Industrial Grade
- ◆ Surface Mount

TYPICAL APPLICATIONS

- ◆ ECM
- ◆ Radar
- ◆ Communications



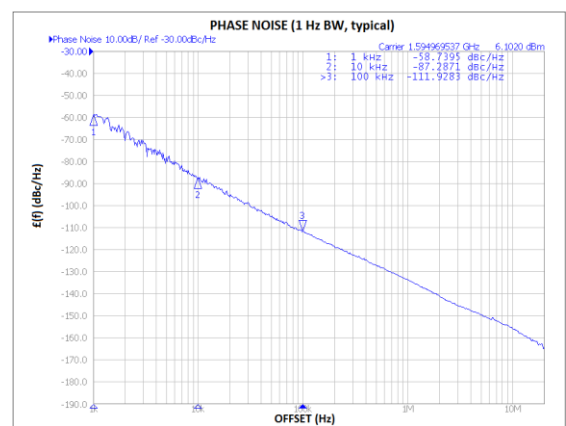
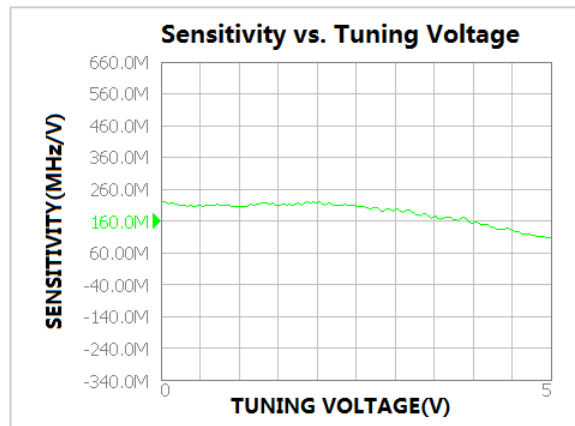
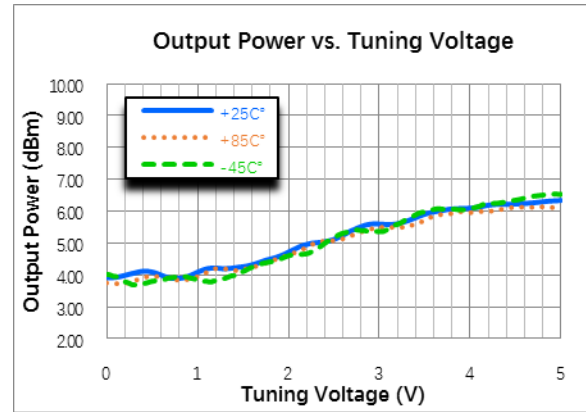
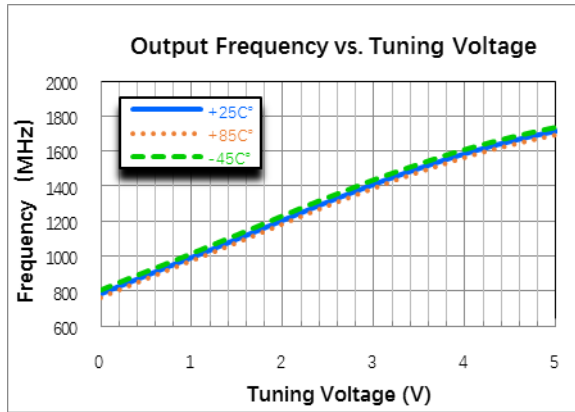
SPECIFICATIONS

Parameter	Unit	Min.	Typ.	Max.	Test Conditions
Frequency	MHz	914	-	1631	
Tuning Voltage	V	0.5	-	4.5	
Tuning Sensitive	MHz/V	-	200	-	
Pout	dBm	2	4.5	-	
SSB Phase Noise	dBc/Hz	-	-58	-	@1kHz
		-	-87	-	@10kHz
		-	-111	-	@100kHz
Harmonic Suppression	dBc	-	-18	-	
Spurious Suppression	dBc	-	-80	-70	
Pushing	MHz	-	1.8	-	
Tuning Capacitor	pF	-	43	-	
Input Impedance	MΩ		10		
Output Impedance	Ω	-	50	-	
Frequency Temp. Drift	MHz	-	60	-	-45°C~+85°C
Vcc	V	4.75	5	5.25	
Icc	mA	-	24	28	
Storage Temperature	°C	-55	-	+85	

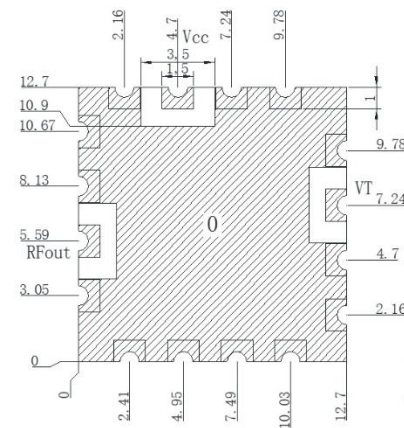
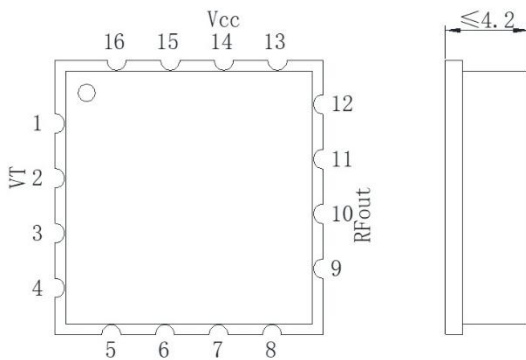
ABSOLUTE MAXIMUM RATINGS

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

TYPICAL PERFORMANCE CURVE



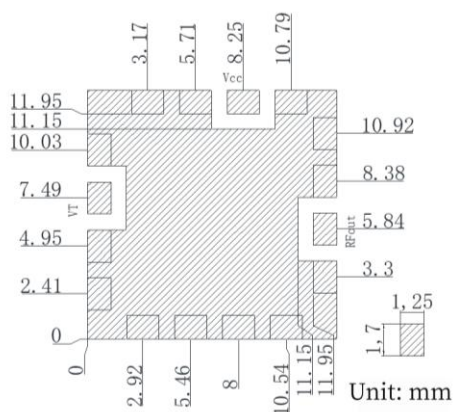
OUTLINE AND RECOMMENDED LAYOUT



0	GND	9	GND
1	GND	10	RFout
2	VT	11	GND
3	GND	12	GND
4	GND	13	GND
5	GND	14	Vcc
6	GND	15	GND
7	GND	16	GND
8	GND		

Unit: mm

Pad

Tolerance: $\pm 0.2\text{mm}$


Unit: mm

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.