

VMVO1900M4100M-5SM127

FEATURES

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

TYPICAL APPLICATIONS

- ◆ Test & Measurement
- ◆ TR Module
- ◆ Communications



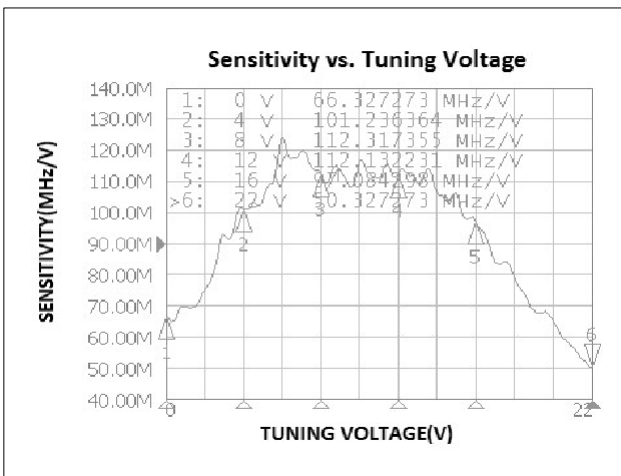
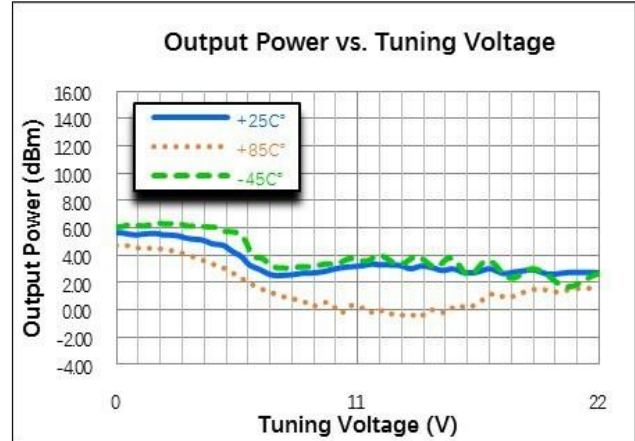
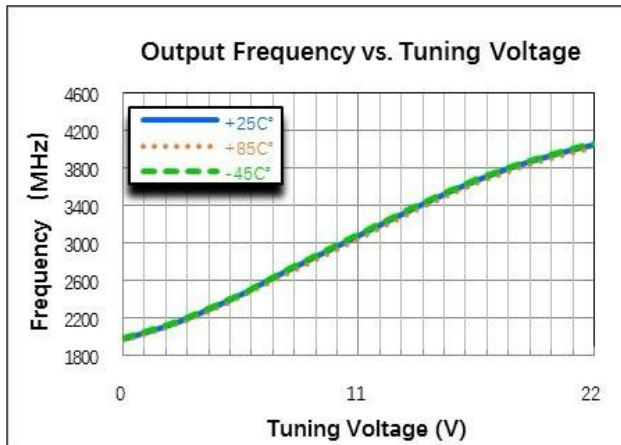
SPECIFICATIONS

Parameter	Unit	Min.	Typ.	Max.	Test Conditions
Frequency	MHz	1900	-	4100	
Tuning Voltage	V	1	-	22	
Electronic Tuning Sensitivity	MHz/V	-	100	-	
Pout	dBm	-2	3	-	
Frequency Factor	MHz	-	1	-	
Load Pull	MHz	-	1	-	12dB RL
Cap	pF	-	18	-	
Input Impedance	MΩ	-	10	-	
Single Side Phase Noise	dBc/Hz	-	-58	-	@1kHz
		-	-84	-	@10kHz
		-	-108	-	@100kHz
Output Impedance	Ω	-	50	-	
Frequency Temperature Drift	MHz	-	50	-	-45°C ~ +85°C
Vdd	V	4.75	5	5.25	
Idd	mA	-	30	35	
Harmonic Suppression	dBc	-	-10	-	
Spurious Suppression	dBc	-	-80	-70	
Storage Temperature	°C	-55	-	+125	

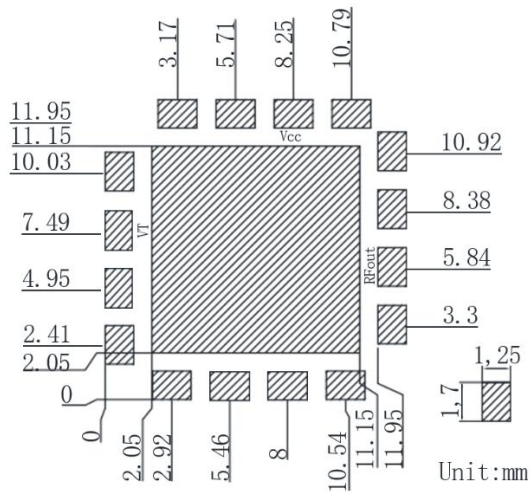
ABSOLUTE MAXIMUM RATINGS

Parameter	Max. Rating
Storage Temperature	-55°C ~ +125°C
Voltage Supply	+5.5V
Tuning Voltage	+25V
ESD Level	EPA Class 1

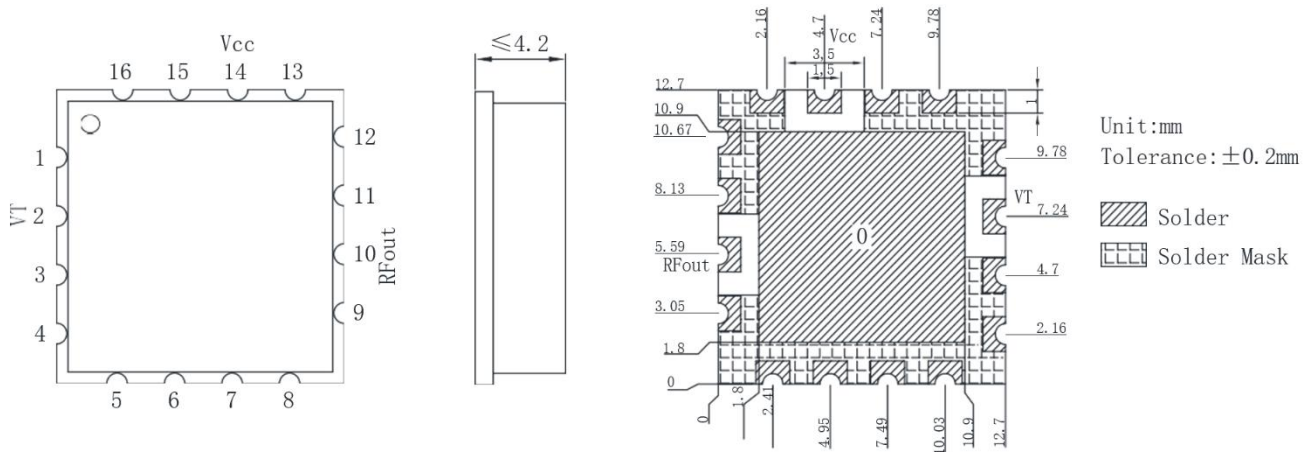
TYPICAL PERFORMANCE CURVE



LAYOUT SUGGEST



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.