

VMVO1130M1472M-12SM127

FEATURES

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



TYPICAL APPLICATIONS

- ◆ Test & Measurement
- ◆ Radar
- ◆ Communications
- ◆ Electronic Warfare
- ◆ Remote sensing and Detection

SPECIFICATIONS

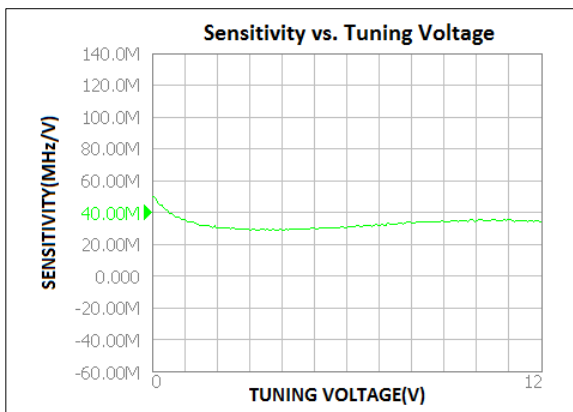
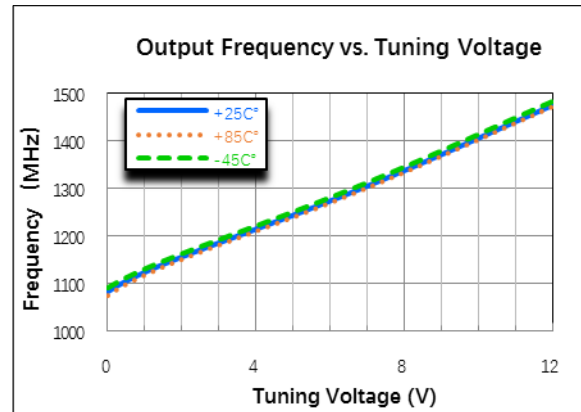
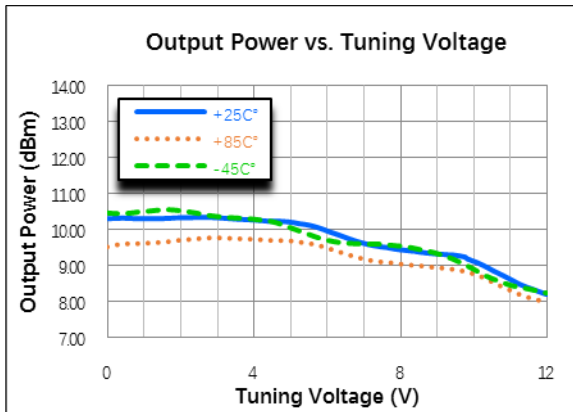
Ta=25℃

Parameter	Unit	Min.	Typ.	Max.	Test Conditions
Frequency	MHz	1130	-	1472	
Tuning Voltage	V	1	-	12	
Electronic Tuning Sensitivity	MHz/V	-	33	-	
Pout	dBm	6	9	-	
Frequency Factor	MHz	-	1	-	
Load Pull	MHz	-	0.7	-	+12V supply
Cap	pF	-	22	-	
Input Impedance	MΩ	-	10	-	
Single Side Phase Noise	dBc/Hz	-	-60	-	@1kHz
		-	-91	-	@10kHz
		-	-120	-	@100kHz
Output Impedance	Ω	-	50	-	
Frequency Temperature Drift	MHz	-	50	-	-45℃ ~ +85℃
Vdd	V	11	12	13	
Idd	mA	-	65	70	
Harmonic Suppression	dBc	-	-18	-	
Spurious Suppression	dBc	-	-80	-70	
Storage Temperature	℃	-55	-	+85	

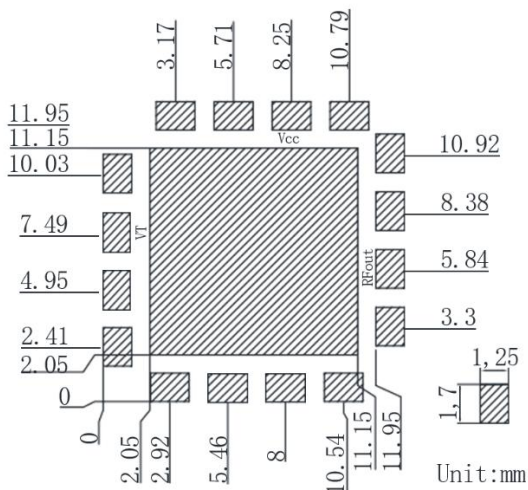
ABSOLUTE MAXIMUM RATINGS

Parameter	Max. Rating
Storage Temperature	-55°C ~ +125°C
Voltage Supply	+15V
Tuning Voltage	+15V
ESD Level	EPA Class 1

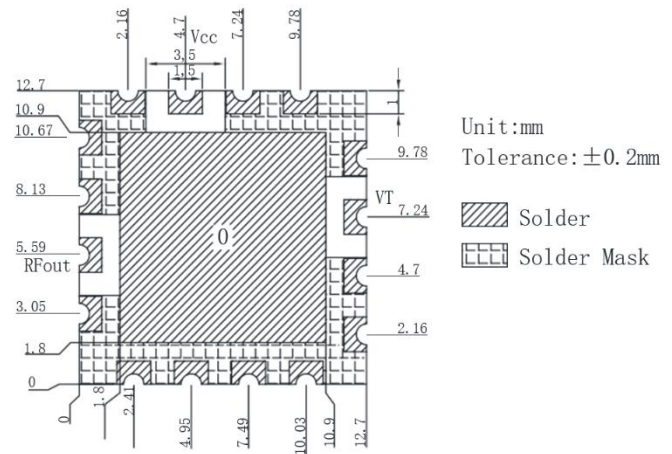
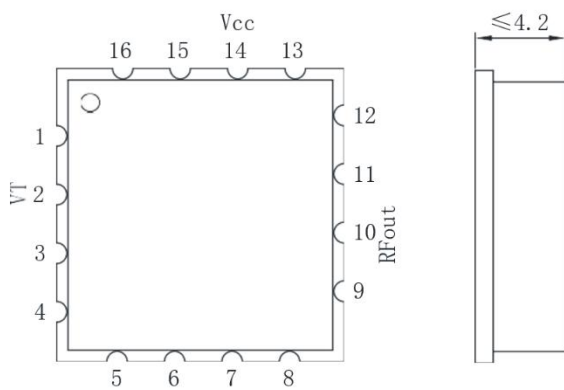
TYPICAL PERFORMANCE CURVE



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.