

# Voltage Controlled Oscillator

# RSW360AM

Rev. A

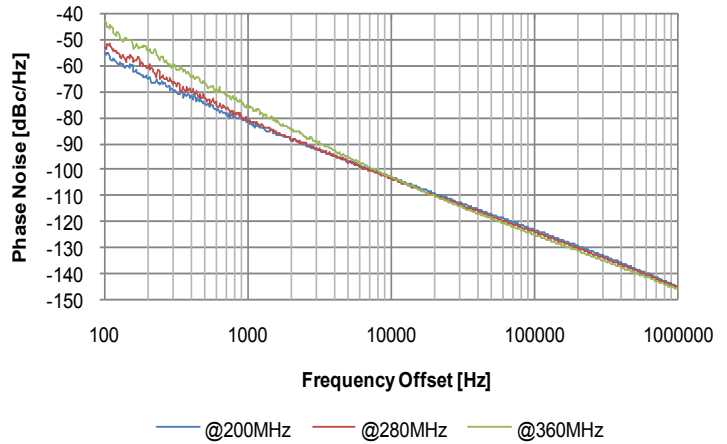
Wideband 200 to 360 MHz

## Features

- Low phase noise
- Linear tuning characteristics
- Low pushing / Low pulling
- Aqueous washable

## Applications

- Broadcast
- VHF radio
- Wireless Telemetry
- Test Instrument-Signal Generation

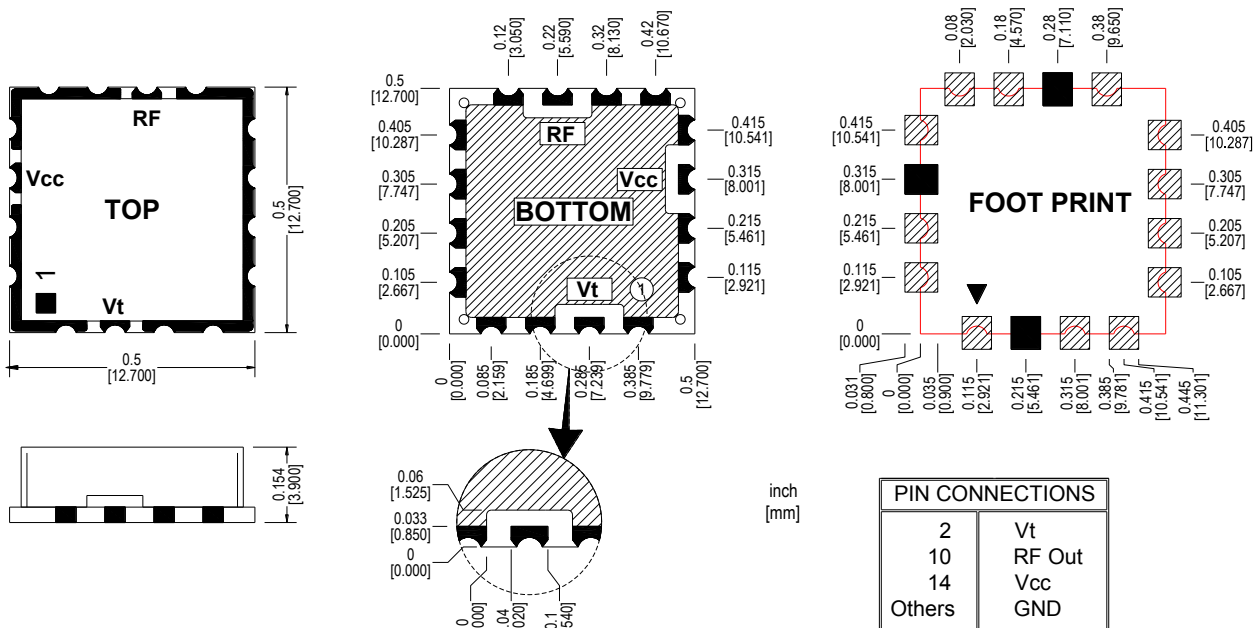


## Electrical Characteristics

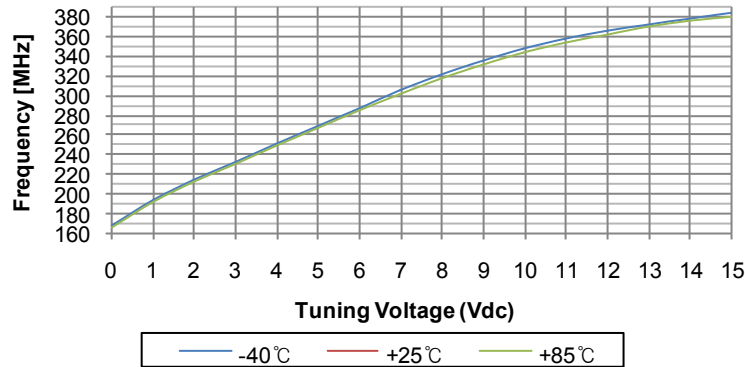


Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	200		360
Output Power	dBm	9.0	11.0	13.0
Output Impedance	$\Omega$		50	
Phase Noise	@10kHz offset		-103	-98
	@100kHz offset		-124	-119
Tuning Voltage (Vt)	Vdc	1.5		15.0
Tuning Voltage Sensitivity (Kv)	MHz/V		10 - 20	
2nd Harmonic Suppression	dBc		-10	
Power Supply (Vcc)	Voltage	Vdc	5	
	Current	mA	20	25
Pushing Figure	MHz/V		2	
Pulling Figure	MHz		1	
Input Capacitance	pF		100	
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

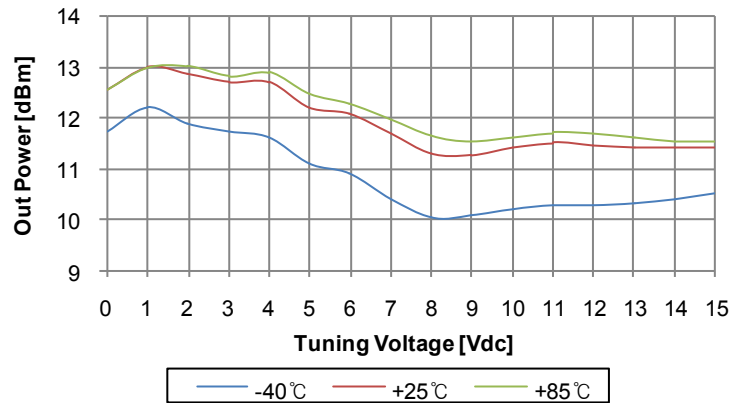
## Dimensions



## Tuning Curve



## Output Power Curve



## Performance Data

Vt [Vdc]	Frequency [MHz]			Kv [MHz/V]			Output Power [dBm]			2nd Harmonic [dBc]
	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	
0.0	168.2	165.5	171.9	-	-	-	12.6	12.6	11.7	-7.1
1.0	193.5	191.2	196.3	25.3	25.7	24.4	13.0	13.0	12.2	-7.2
2.0	213.8	211.5	216.3	20.3	20.3	20.1	12.9	13.0	11.9	-7.3
3.0	232.5	230.2	234.9	18.7	18.7	18.6	12.7	12.8	11.8	-7.8
4.0	250.8	248.5	253.4	18.4	18.3	18.5	12.7	12.9	11.6	-8.2
5.0	269.6	267.1	272.2	18.7	18.6	18.8	12.2	12.5	11.1	-8.9
6.0	287.6	285.0	290.3	18.0	17.9	18.1	12.1	12.3	10.9	-9.3
7.0	305.0	302.4	308.0	17.4	17.4	17.7	11.7	12.0	10.4	-9.6
8.0	321.1	318.5	324.3	16.2	16.1	16.3	11.3	11.6	10.1	-10.1
9.0	335.2	332.5	338.5	14.1	14.0	14.2	11.3	11.5	10.1	-10.1
10.0	347.2	344.4	350.5	11.9	11.9	12.0	11.4	11.6	10.2	-10.6
11.0	357.3	354.5	360.6	10.2	10.1	10.1	11.5	11.7	10.3	-10.3
12.0	366.0	363.1	369.1	8.6	8.6	8.5	11.5	11.7	10.3	-10.8
13.0	373.2	370.3	376.1	7.2	7.2	7.0	11.4	11.6	10.3	-11.9
14.0	379.1	376.2	381.9	6.0	5.9	5.8	11.4	11.6	10.4	-11.6
15.0	383.9	381.0	386.6	4.8	4.8	4.7	11.4	11.5	10.5	-11.8