

Voltage Controlled Oscillator

RSW240AM

Wideband 200 to 240 MHz

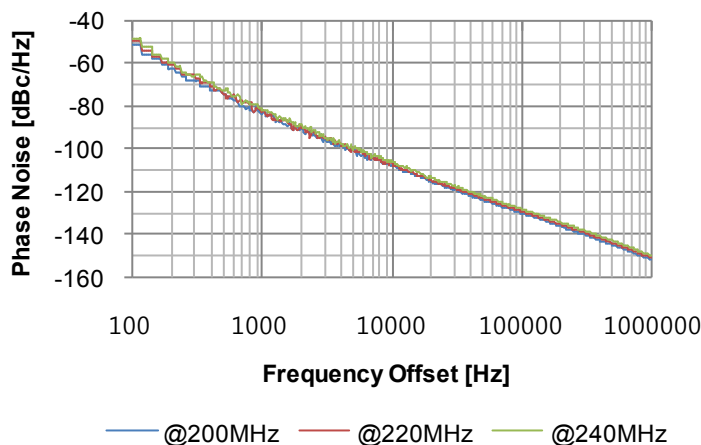
Rev. A

Features

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

Applications

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

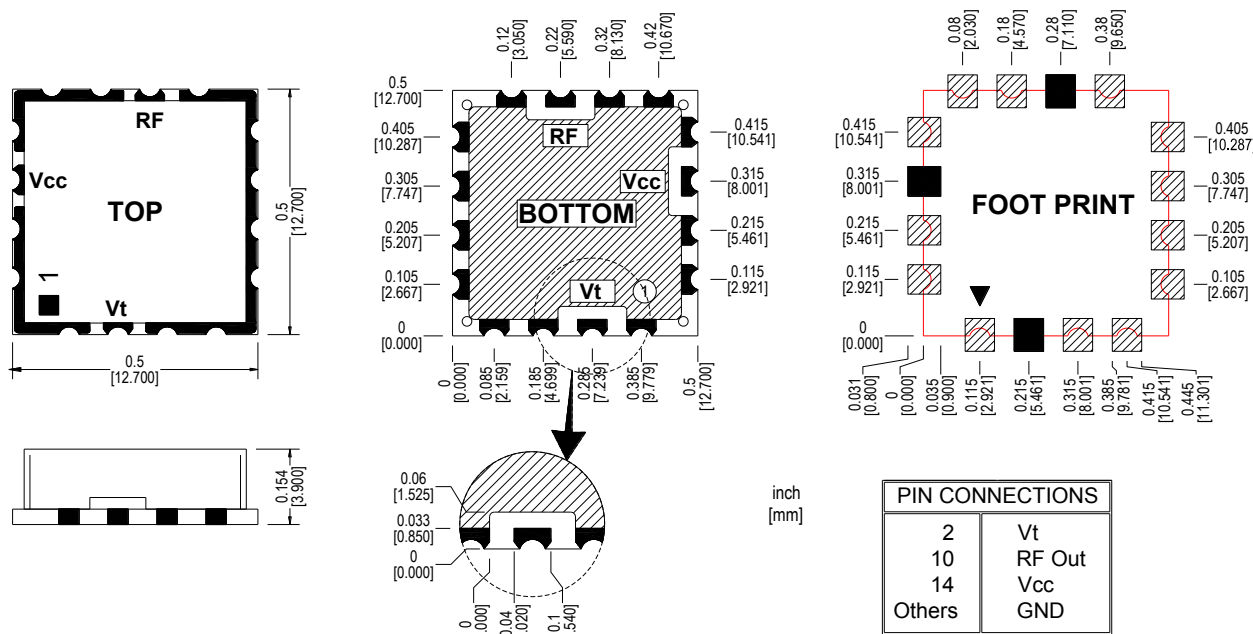


Electrical Characteristics



Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	200		240
Output Power	dBm	+6.0	+9.0	+12.0
Output Impedance	Ω		50	
Phase Noise @10kHz offset	dBc/Hz		-107	-102
Phase Noise @100kHz offset	dBc/Hz		-128	-103
Tuning Voltage (Vt)	Vdc	0.5		6.0
Tuning Voltage Sensitivity (Kv)	MHz/V		15 - 20	
2nd Harmonic Suppression	dBc		-7	
Power Supply (Vcc) Voltage	Vdc		5	
Power Supply (Vcc) Current	mA		19	25
Pushing Figure	MHz/V		0.7	
Pulling Figure	MHz		0.30	
Input Capacitance	pF		100	
Operating Temp. Range	°C	-40		+85

Dimensions

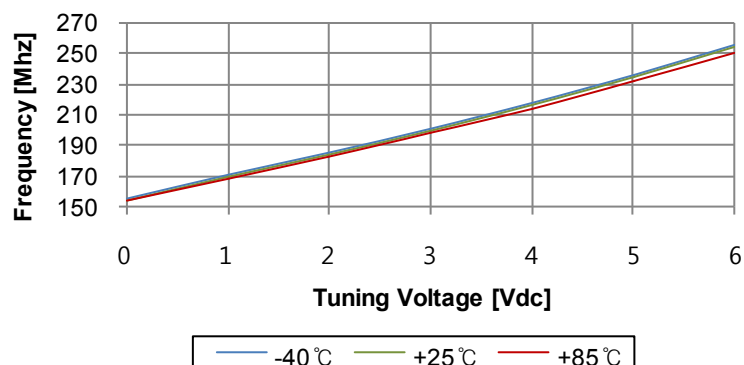


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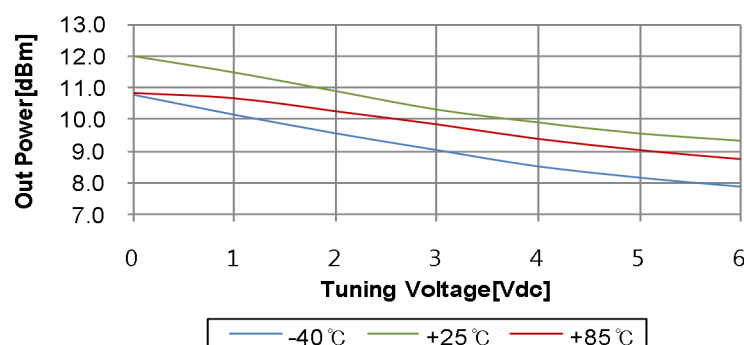
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Tuning Curve



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	154.2	153.4	154.9	-	-	-	12.0	10.8	10.8	-4
1.0	169.7	168.0	170.6	15.5	14.6	15.7	11.5	10.7	10.2	-5
2.0	184.4	182.5	185.6	14.8	14.5	15.0	10.9	10.3	9.6	-6
3.0	199.9	197.6	201.3	15.5	15.2	15.7	10.3	9.8	9.0	-7
4.0	216.7	214.1	218.3	16.8	16.5	17.0	9.9	9.4	8.5	-8
5.0	234.9	231.9	236.5	18.2	17.7	18.2	9.6	9.0	8.2	-8
6.0	254.3	250.8	255.7	19.3	18.9	19.2	9.3	8.8	7.9	-8