

Voltage Controlled Oscillator

RS943AM

Optimized band 925 to 960 MHz

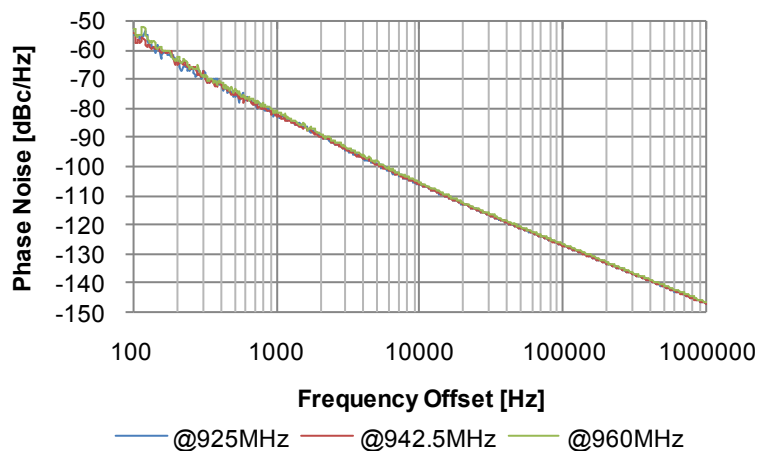
Rev. A

Features

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

Applications

- SATCOM
- Receiver
- Test Equipment
- Radar
- Point-to-Point
- Radio
- MMDS
- WiMax

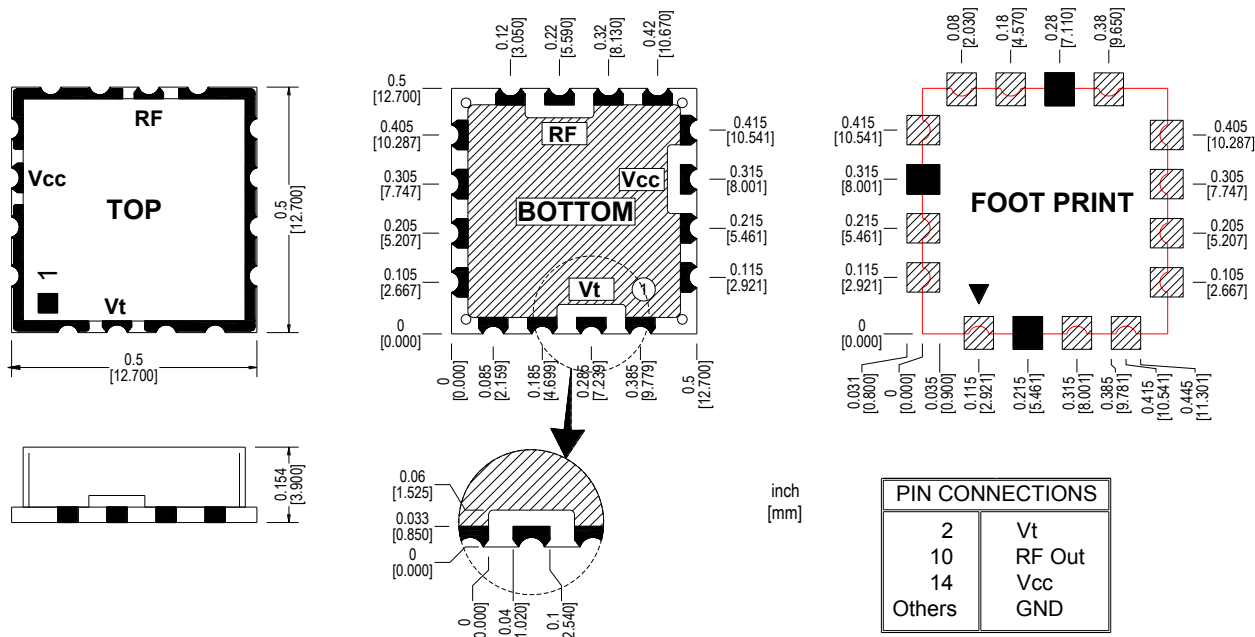


Electrical Characteristics

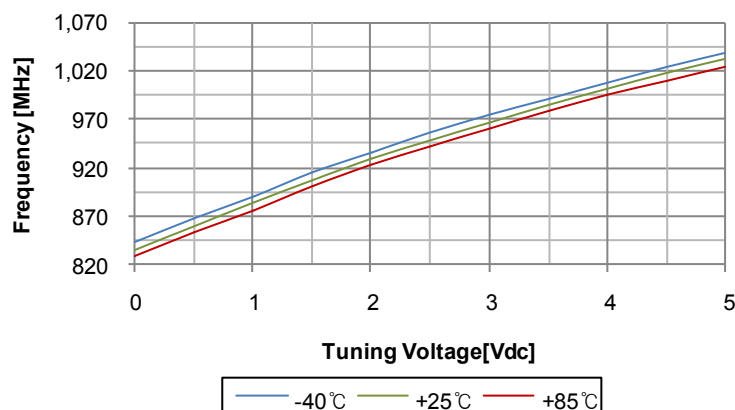


Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	925		960
Output Power	dBm		5.0	
Output Impedance	Ω		50	
Phase Noise @10kHz offset	dBc/Hz		-105	
Phase Noise @100kHz offset	dBc/Hz		-125	
Tuning Voltage (Vt)	Vdc	1.3		3.5
Tuning Voltage Sensitivity (Kv)	MHz/V		20	
2nd Harmonic Suppression	dBc		-13	
Power Supply (Vcc) Voltage	Vdc		5	
Power Supply (Vcc) Current	mA		20	
Pushing Figure	MHz/V		0.8	
Pulling Figure	MHz		0.2	
Input Capacitance	pF		100	
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

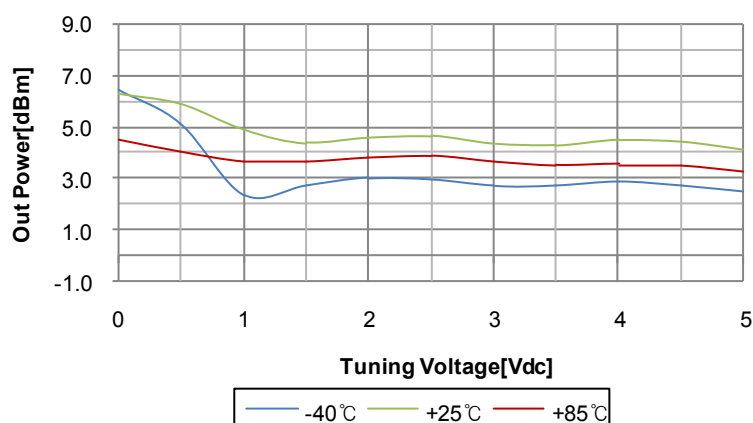
Dimensions



■ Tuning Curve



■ Output Power Curve



■ Performance Data

Vt [Vdc]	Frequency [MHz]			Kv [MHz/0.5V]			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	834.7	828.6	843.3	-	-	-	6.3	4.5	6.5	-16.5
0.5	860.0	852.6	867.3	25.3	24.0	24.1	5.9	4.1	5.2	-12.1
1.0	883.8	876.7	890.3	23.8	24.1	23.0	4.9	3.7	2.4	-11.1
1.5	907.3	901.2	914.8	23.5	24.6	24.4	4.4	3.7	2.7	-11.5
2.0	929.1	922.9	936.3	21.8	21.7	21.5	4.6	3.8	3.0	-13.1
2.5	949.1	942.7	955.8	20.0	19.8	19.6	4.7	3.9	3.0	-13.9
3.0	967.6	961.2	974.1	18.6	18.5	18.3	4.4	3.7	2.7	-16.1
3.5	985.2	978.6	991.5	17.5	17.3	17.3	4.3	3.5	2.7	-17.6
4.0	1001.9	995.1	1008.1	16.8	16.6	16.6	4.5	3.6	2.9	-19.3
4.5	1017.5	1010.8	1023.7	15.6	15.6	15.7	4.4	3.5	2.7	-21.2
5.0	1032.4	1025.5	1038.7	14.8	14.7	15.0	4.2	3.3	2.5	-23.5