

VCO3362

Surface Mount

Voltage Controlled Oscillator

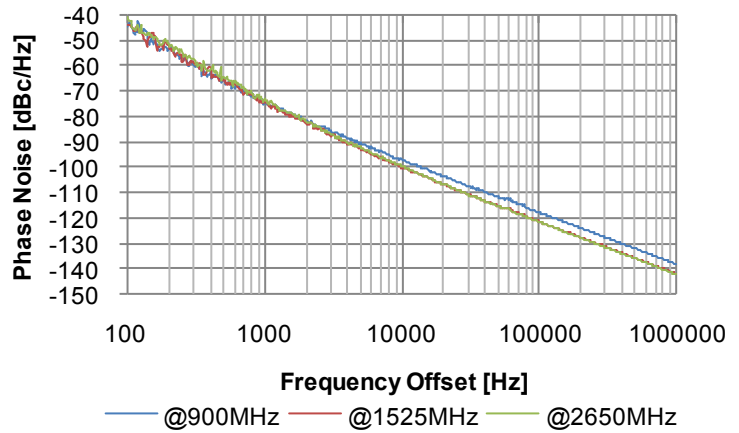
Wide band 1000 to 2150 MHz

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

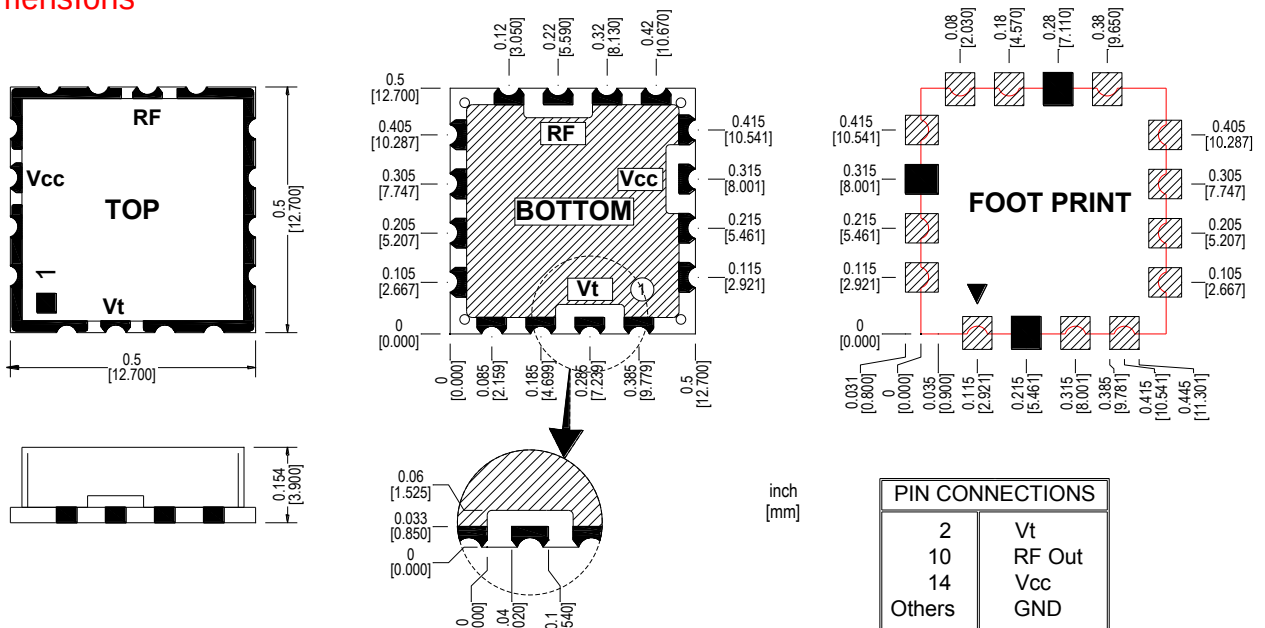


Electrical Characteristics



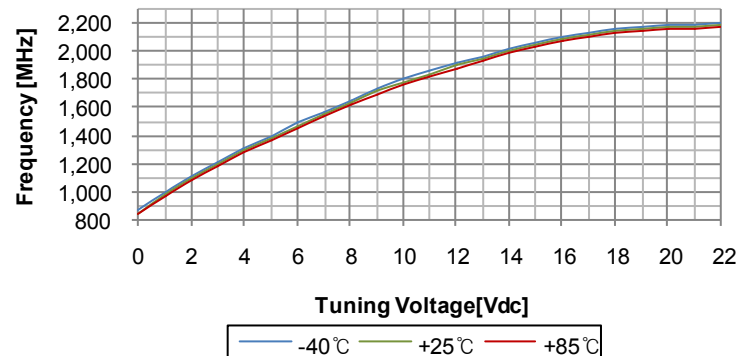
Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	1000		2150
Output Power	dBm	+7.0	+9.0	+10.0
Output Impedance	Ω		50	
Phase Noise @10kHz offset	dBc/Hz		-99	-94
Phase Noise @100kHz offset	dBc/Hz		-119	-114
Tuning Voltage (Vt)	Vdc	0		22.0
Tuning Voltage Sensitivity (Kv)	MHz/V		24 - 138	
2nd Harmonic Suppression	dBc		-21	
Power Supply (Vcc) Voltage	Vdc		5	
Power Supply (Vcc) Current	mA		29	35
Pushing Figure	MHz/V		2.9	
Pulling Figure	MHz		13	
Input Capacitance	pF		100	
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

Dimensions

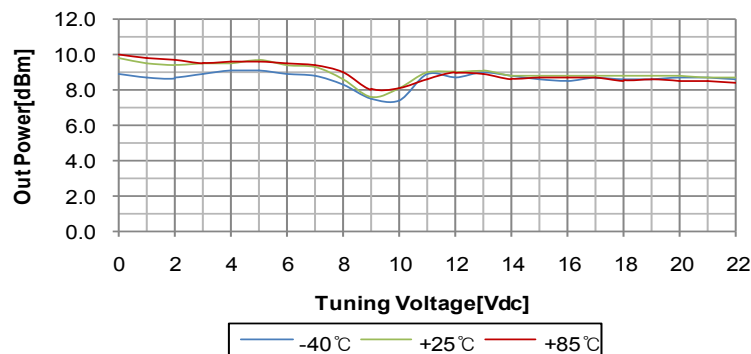


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Tuning Curve



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	845.8	842.9	866.1	-	-	-	9.8	10.0	8.9	-22.1
1.0	984.6	973.1	1002.8	138.8	130.1	136.6	9.6	9.8	8.7	-25.2
2.0	1098.0	1084.7	1114.4	113.5	111.6	111.7	9.4	9.7	8.7	-44.4
3.0	1197.5	1183.7	1213.6	99.5	99.1	99.2	9.5	9.5	8.9	-30.9
4.0	1293.0	1276.7	1309.0	95.5	92.9	95.4	9.6	9.6	9.1	-23.3
5.0	1382.3	1367.5	1398.9	89.3	90.8	89.9	9.7	9.7	9.1	-22.8
6.0	1470.4	1453.9	1488.0	88.1	86.4	89.1	9.4	9.5	8.9	-21.8
7.0	1554.2	1538.0	1571.2	83.8	84.1	83.2	9.3	9.4	8.8	-23.4
8.0	1633.7	1616.9	1650.9	79.5	78.9	79.7	8.7	9.0	8.3	-21.3
9.0	1716.0	1695.8	1733.9	82.3	78.9	82.9	7.6	8.0	7.5	-18.7
10.0	1784.0	1765.7	1803.5	68.0	69.9	69.6	8.1	8.1	7.4	-16.3
11.0	1840.4	1825.2	1860.0	56.4	59.5	56.5	9.0	8.6	8.9	-20.8
12.0	1900.7	1884.7	1920.4	60.2	59.5	60.4	9.0	9.0	8.7	-30.9
13.0	1955.8	1940.4	1971.6	55.1	55.7	51.3	9.1	8.9	9.0	-30.1
14.0	2008.6	1991.4	2023.5	52.9	50.9	51.8	8.8	8.7	8.8	-32.8
15.0	2051.3	2035.9	2069.1	42.7	44.5	45.6	8.8	8.7	8.6	-32.5
16.0	2090.6	2075.0	2106.4	39.3	39.1	37.4	8.8	8.7	8.5	-33.0
17.0	2118.5	2104.8	2134.7	27.8	29.8	28.2	8.8	8.7	8.7	-43.5
18.0	2143.0	2128.6	2158.1	24.6	23.8	23.5	8.8	8.6	8.6	-37.8
19.0	2160.5	2146.6	2174.5	17.5	18.0	16.4	8.8	8.6	8.7	-43.2
20.0	2173.8	2159.9	2188.1	13.2	13.2	13.6	8.8	8.6	8.7	-47.8
21.0	2184.6	2170.8	2199.2	10.9	10.9	11.1	8.8	8.5	8.7	-38.3
22.0	2193.7	2179.8	2208.5	9.0	9.1	9.3	8.8	8.4	8.7	-34.1