

Features

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

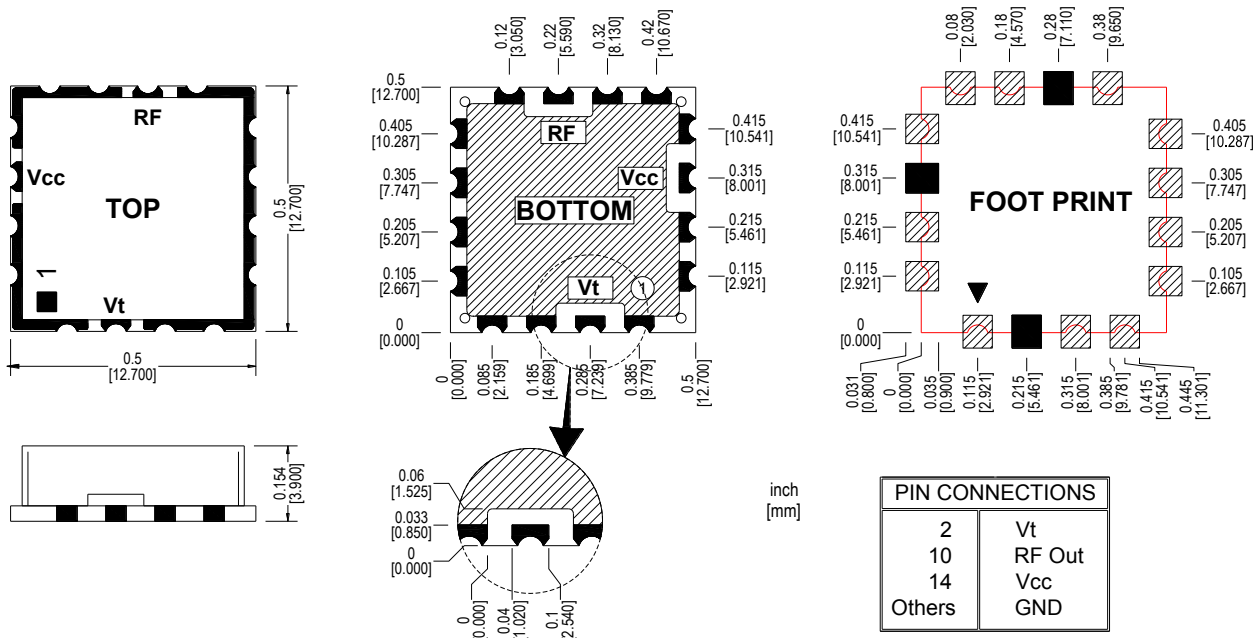
Typical Applications

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

Description

The VCO3446 is a Low Phase Noise, good Linear tuning characteristics, Low pushing / Low pulling and Aqueous Washable high performance VCO, it is used in various rugged fields such as SATCOM, MMDS, RADAR etc.

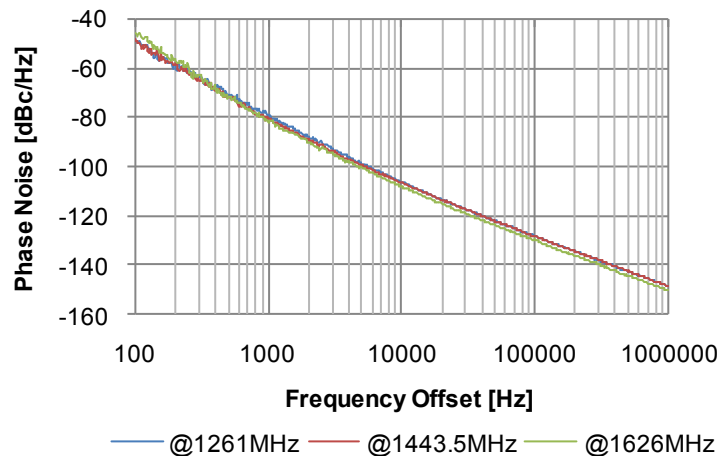
Dimensions



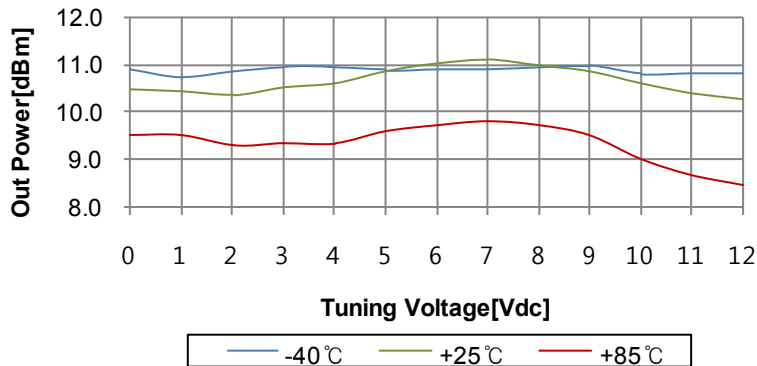
Electrical Characteristics

Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	1261		1626
Output Power	dBm	+8.0	+10.0	+12.0
Output Impedance	Ω		50	
Phase Noise	@10kHz offset		-109	-104
	@100kHz offset		-131	-126
Tuning Voltage (Vt)	Vdc	0.0		12.0
Tuning Voltage Sensitivity (Kv)	MHz/V		25 - 45	
2nd Harmonic Suppression	dBc		-10	
Power Supply (Vcc)	Voltage		8	
	Current		47	50
Pushing Figure	MHz/V		0.3	
Pulling Figure	MHz		1.8	
Input Capacitance	pF		100	
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

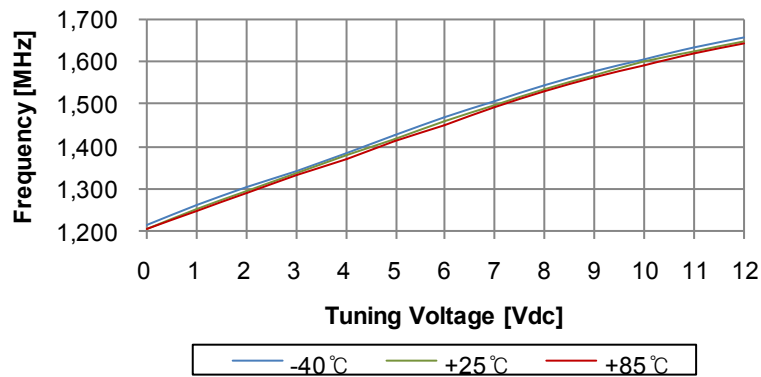
Phase Noise



Output Power Curve



Tuning 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	1206.8	1203.1	1213.4	-	-	-	10.5	9.5	10.9	-17
1.0	1253.0	1247.9	1259.5	46.1	44.7	46.1	10.4	9.5	10.7	-16
2.0	1295.5	1289.4	1302.5	42.5	41.5	43.0	10.4	9.3	10.9	-17
3.0	1336.5	1329.9	1343.9	41.0	40.4	41.3	10.5	9.3	11.0	-15
4.0	1377.3	1370.0	1385.4	40.8	40.2	41.5	10.6	9.3	11.0	-14
5.0	1418.9	1411.3	1427.3	41.6	41.3	41.9	10.9	9.6	10.9	-13
6.0	1460.2	1452.3	1468.4	41.3	41.0	41.2	11.0	9.7	10.9	-13
7.0	1499.4	1491.8	1507.6	39.2	39.6	39.2	11.1	9.8	10.9	-12
8.0	1535.9	1528.6	1543.9	36.5	36.7	36.4	11.0	9.7	11.0	-11
9.0	1569.4	1562.4	1577.3	33.5	33.8	33.4	10.9	9.5	11.0	-10
10.0	1599.7	1593.0	1607.6	30.3	30.6	30.2	10.6	9.0	10.8	-10
11.0	1626.8	1620.2	1634.1	27.0	27.2	26.6	10.4	8.7	10.8	-9
12.0	1650.2	1643.9	1657.4	23.4	23.7	23.3	10.3	8.5	10.8	-10