

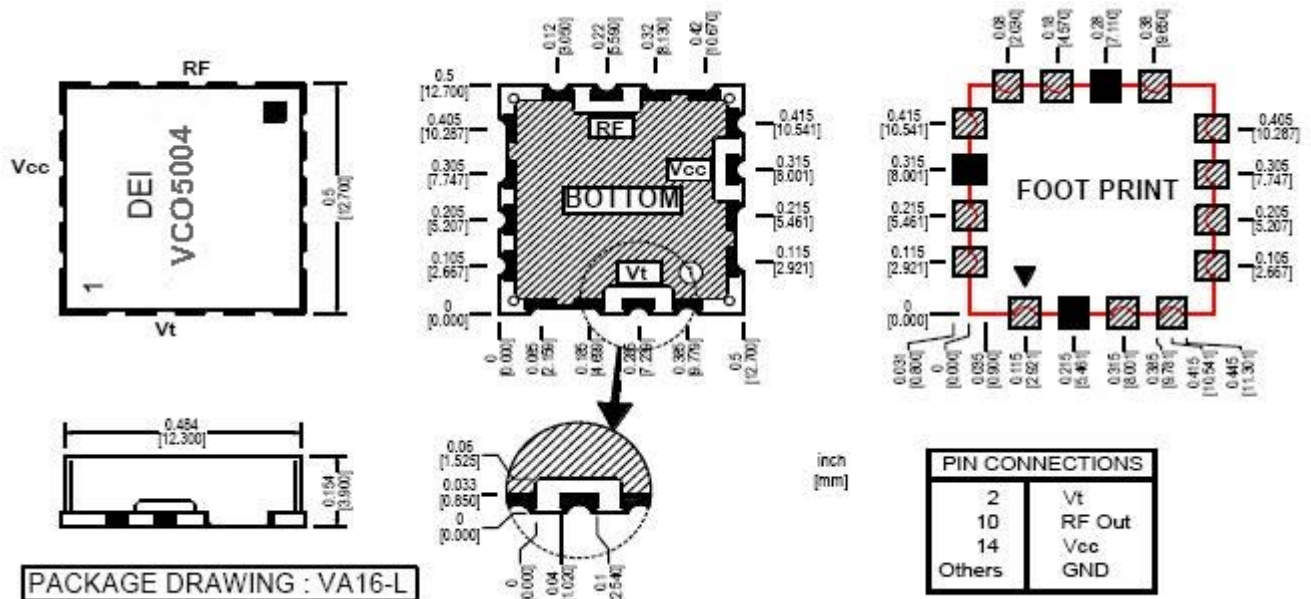
Features

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

Typical Applications

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

Mechanical Drawing and PIN Connections



Specification

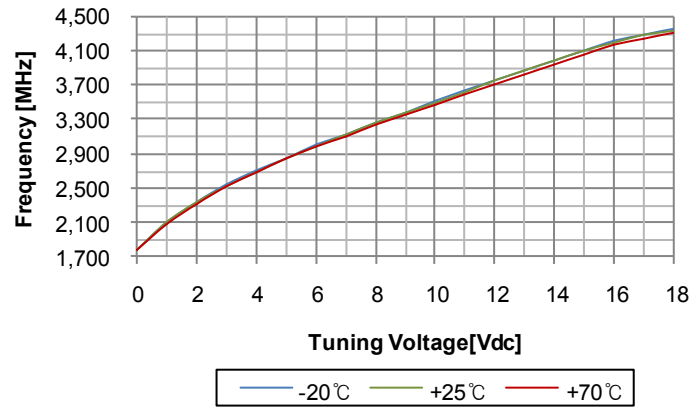
Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	2100		4300
Output Power	dBm		5.0	
Output Impedance	Ω		50	
Phase Noise @10kHz offset @100kHz offset	dBc/Hz		-90	
	dBc/Hz		-111	
Tuning Voltage (Vt)	Vdc	0.5		18.0
Tuning Voltage Sensitivity (Kv)	MHz/V		70-240	
2nd Harmonic Suppression	dBc		-18	
Power Supply (Vcc) Voltage Current	Vdc		5	
	mA		50	
Pushing Figure	MHz/V		4.6	
Pulling Figure (10dB Return Loss, all phases)	MHz		4.5	
Input Capacitance	pF		100	
Operating Temp. Range	°C	-20		+70

Performance Data

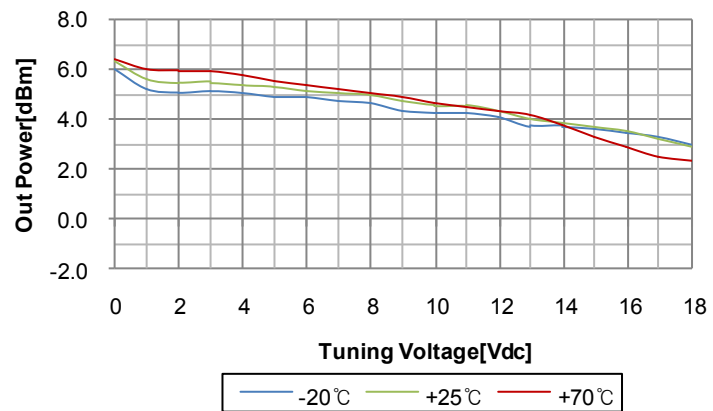
Vt [Vdc]	Frequency [MHz]			Kv [MHz/V]			Output Power [dBm]			2nd Harmonic [dBc]
	+25°C	+70°C	-20°C	+25°C	+70°C	-20°C	+25°C	+70°C	-20°C	
0.0	1771.8	1783.0	1786.1	-	-	-	6.3	6.4	6.0	-15.3
1.0	2093.0	2082.7	2108.0	321.2	299.7	321.9	5.6	6.0	5.2	-14.6
2.0	2332.5	2320.8	2345.3	239.5	238.1	237.2	5.4	5.9	5.0	-20.5
3.0	2527.0	2513.5	2539.4	194.6	192.8	194.1	5.5	5.9	5.1	-19.3
4.0	2695.0	2682.2	2706.3	167.9	168.7	166.9	5.4	5.8	5.1	-15.9
5.0	2848.3	2836.1	2858.0	153.3	153.9	151.7	5.3	5.6	4.9	-13.2
6.0	2991.1	2977.8	2999.2	142.8	141.7	141.2	5.1	5.3	4.9	-14.9
7.0	3127.2	3110.7	3136.3	136.1	132.9	137.1	5.0	5.2	4.7	-15.2
8.0	3255.7	3236.0	3266.7	128.4	125.3	130.4	5.0	5.0	4.6	-18.1
9.0	3378.7	3356.1	3390.3	123.0	120.1	123.6	4.7	4.9	4.4	-19.9
10.0	3503.4	3475.1	3515.1	124.7	119.0	124.8	4.5	4.7	4.3	-25.3
11.0	3625.3	3595.3	3636.4	121.9	120.3	121.3	4.5	4.5	4.2	-27.1
12.0	3746.0	3713.5	3757.4	120.8	118.1	121.0	4.3	4.3	4.1	-33.2
13.0	3866.2	3831.4	3878.4	120.1	117.9	121.0	4.0	4.2	3.7	-37.2
14.0	3985.7	3947.8	3997.3	119.5	116.4	118.9	3.9	3.8	3.7	-43.9
15.0	4098.5	4060.9	4109.5	112.8	113.2	112.2	3.7	3.3	3.6	-48.1
16.0	4198.8	4163.5	4209.0	100.4	102.6	99.5	3.5	2.9	3.5	-38.2
17.0	4281.8	4249.3	4291.6	82.9	85.8	82.6	3.2	2.5	3.3	-37.5
18.0	4345.5	4317.8	4354.9	63.7	68.5	63.4	2.9	2.3	3.0	-39.1

Performance Graph

Tuning Curve



Output Power Curve



Phase Noise Curve

