

GSVCO1205
Surface Mount
Voltage Controlled Oscillator

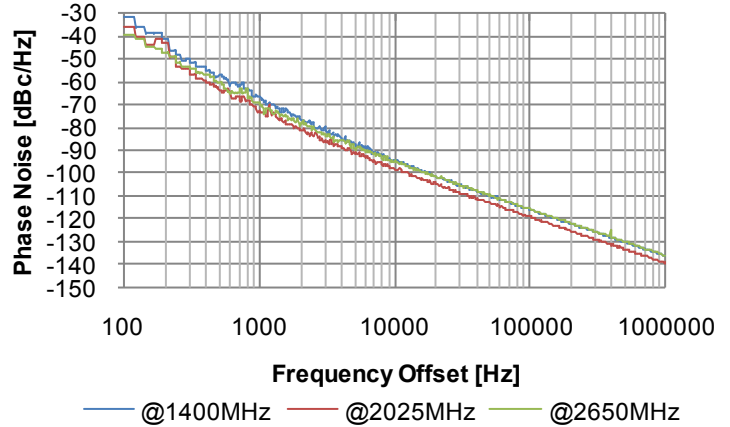
Wideband 1400 to 2650 MHz

Features

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

Applications

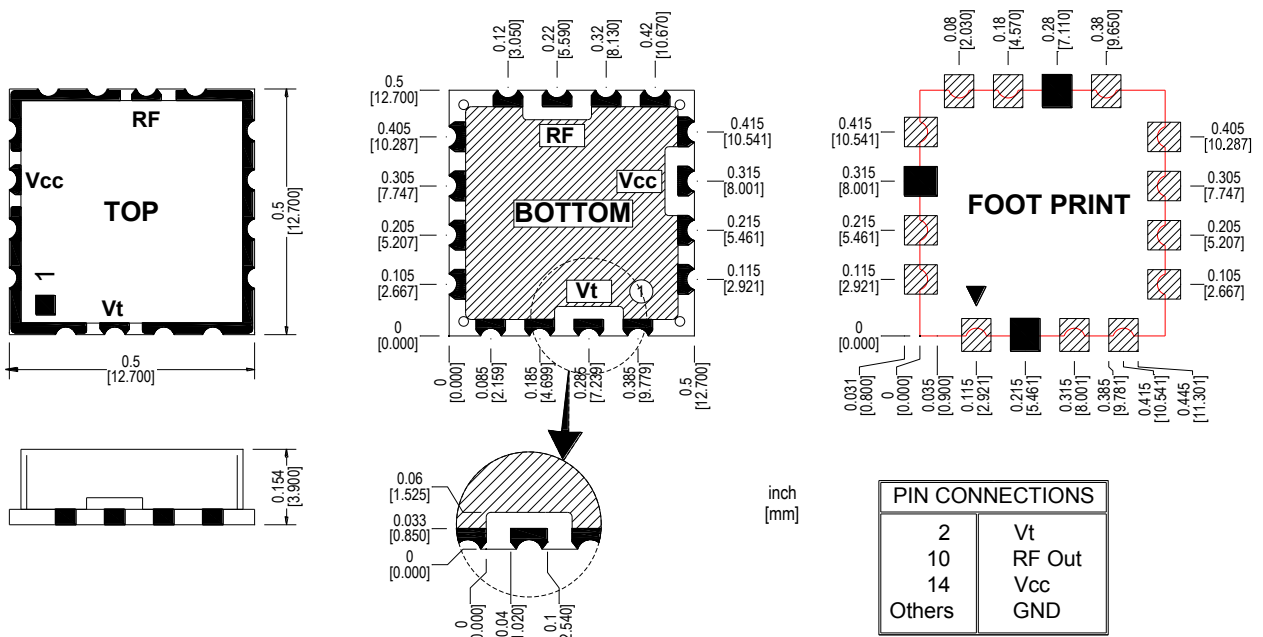
- SATCOM
- Receiver
- Test Equipment
- Radar
- Point –to-Point
- Radio
- MMDS
- WiMax



Electrical Characteristics

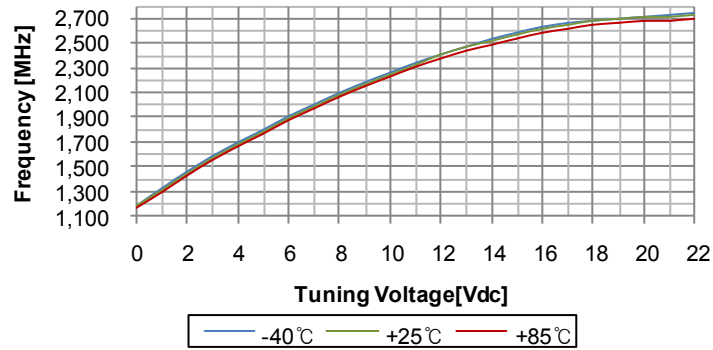
Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	1400		2650
Output Power	dBm	+4.0	+8.0	+12.0
Output Impedance	Ω		50	
Phase Noise	@10kHz offset		-96	-91
	@100kHz offset		-118	-113
Tuning Voltage (Vt)	Vdc	0		22.0
Tuning Voltage Sensitivity (Kv)	MHz/V		26 - 135	
2nd Harmonic Suppression	dBc		-20	
Power Supply (Vcc)	Voltage		5	
	Current		21	26
Pushing Figure	MHz/V		2.5	
Pulling Figure	MHz		8	
Input Capacitance	pF		100	
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

Dimensions

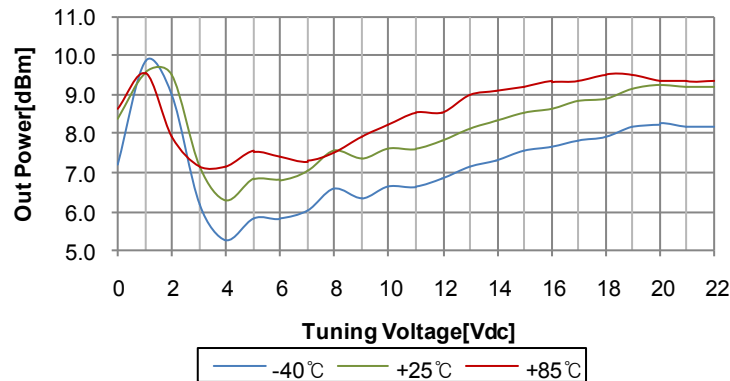


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Tuning Curve



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	1182.6	1170.6	1192.6	-	-	-	8.4	8.6	7.2	-14.3
1.0	1322.1	1297.2	1332.1	139.5	126.6	139.5	9.6	9.6	9.9	-10.1
2.0	1450.1	1432.8	1460.1	128.0	135.6	128.0	9.5	7.9	9.0	-10.2
3.0	1570.6	1553.3	1580.6	120.5	120.5	120.5	7.2	7.2	6.2	-10.5
4.0	1683.3	1664.2	1693.3	112.7	110.9	112.7	6.3	7.2	5.3	-12.5
5.0	1788.0	1769.5	1798.0	104.7	105.3	104.7	6.8	7.6	5.8	-15.6
6.0	1893.3	1872.4	1903.3	105.3	102.9	105.3	6.8	7.4	5.8	-18.3
7.0	1992.6	1970.4	2002.6	99.3	98.0	99.3	7.0	7.3	6.0	-20.3
8.0	2084.9	2062.7	2094.9	92.3	92.2	92.3	7.6	7.5	6.6	-23.1
9.0	2171.8	2147.7	2181.8	86.8	85.1	86.8	7.4	7.9	6.4	-18.1
10.0	2253.5	2229.1	2263.5	81.7	81.4	81.7	7.6	8.2	6.6	-20.3
11.0	2330.0	2304.8	2340.0	76.5	75.7	76.5	7.6	8.6	6.6	-25.3
12.0	2401.0	2373.2	2411.0	71.0	68.4	71.0	7.8	8.6	6.8	-30.1
13.0	2464.0	2435.7	2474.0	63.0	62.5	63.0	8.1	9.0	7.1	-30.4
14.0	2521.5	2492.9	2531.5	57.5	57.2	57.5	8.3	9.1	7.3	-33.2
15.0	2572.3	2542.2	2582.3	50.8	49.3	50.8	8.6	9.2	7.6	-35.2
16.0	2614.7	2584.1	2624.7	42.4	41.9	42.4	8.7	9.3	7.7	-40.1
17.0	2646.3	2616.3	2656.3	31.6	32.2	31.6	8.8	9.4	7.8	-42.3
18.0	2673.1	2642.0	2683.1	26.8	25.8	26.8	8.9	9.5	7.9	-45.3
19.0	2692.2	2659.5	2702.2	19.1	17.5	19.1	9.2	9.5	8.2	-49.5
20.0	2705.3	2674.6	2715.3	13.1	15.1	13.1	9.3	9.4	8.3	-51.3
21.0	2717.0	2687.6	2727.0	11.6	12.9	11.6	9.2	9.3	8.2	-52.3
22.0	2728.8	2696.9	2738.8	11.8	9.3	11.8	9.2	9.3	8.2	-53.0