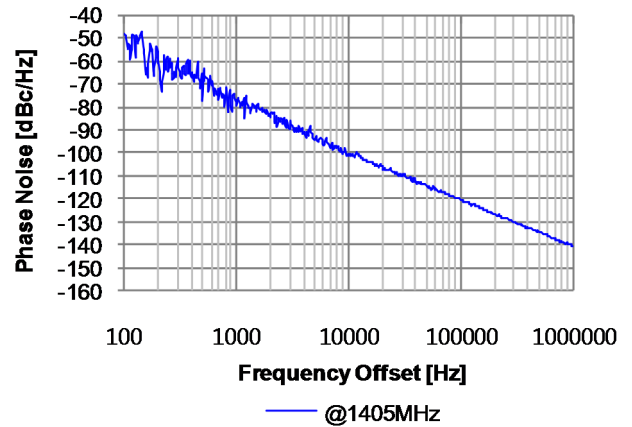


Features

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

Applications

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

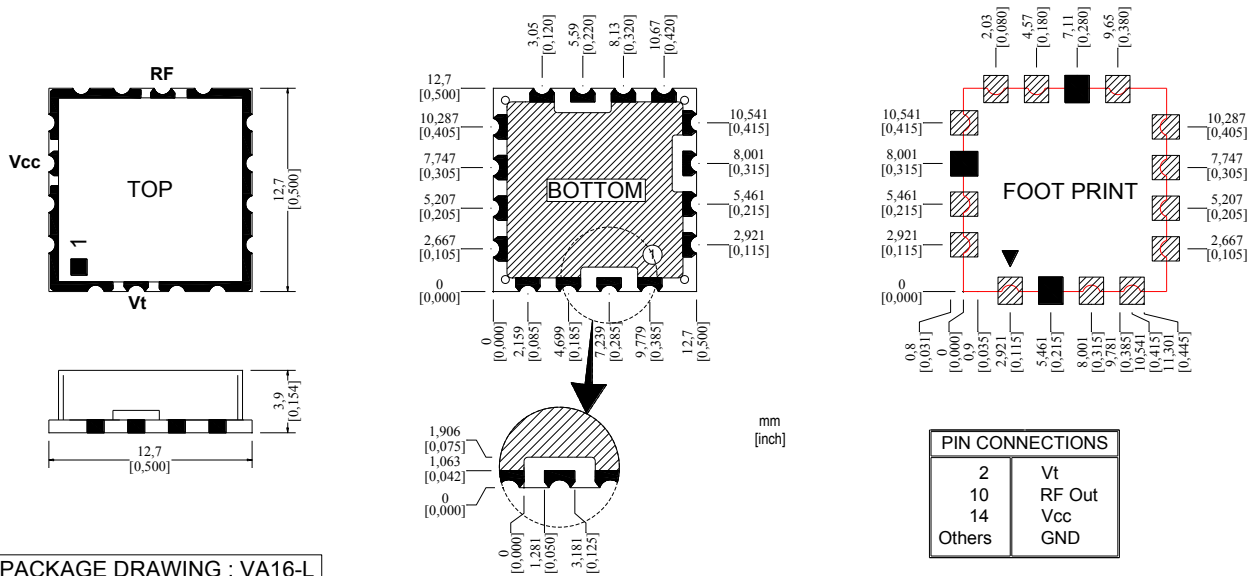


Electrical Characteristics



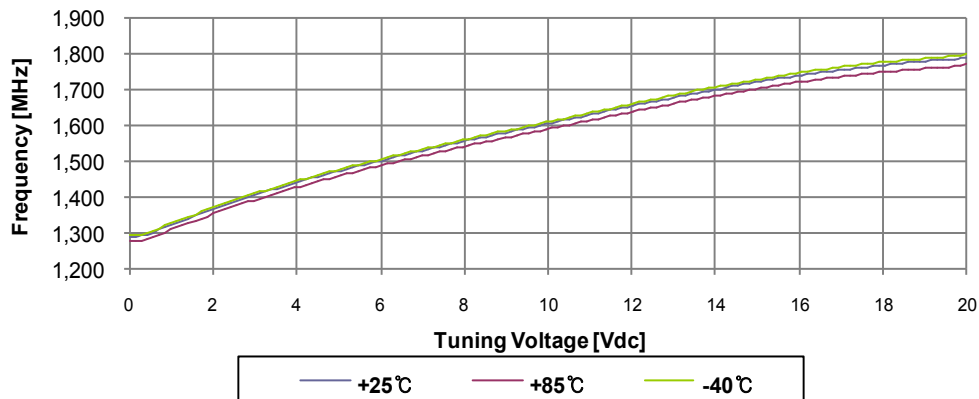
Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	1355.00		1455.00
Output Power	dBm	0.0	+2.0	+4.0
Output Impedance	Ω		50	
Phase Noise	@10kHz offset		-100	-95
	@100kHz offset		-120	-115
Tuning Voltage (Vt)	Vdc	0.5		4.5
Tuning Voltage Sensitivity (Kv)	MHz/V		9.7 - 44.7	
2nd Harmonic Suppression	dBc		-26	-20
Power Supply (Vcc)	Voltage	Vdc	5	
	Current	mA	16	25
Pushing Figure	MHz/V		4	
Pulling Figure	MHz		0.37	
Input Capacitance	pF		100	
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

Dimensions

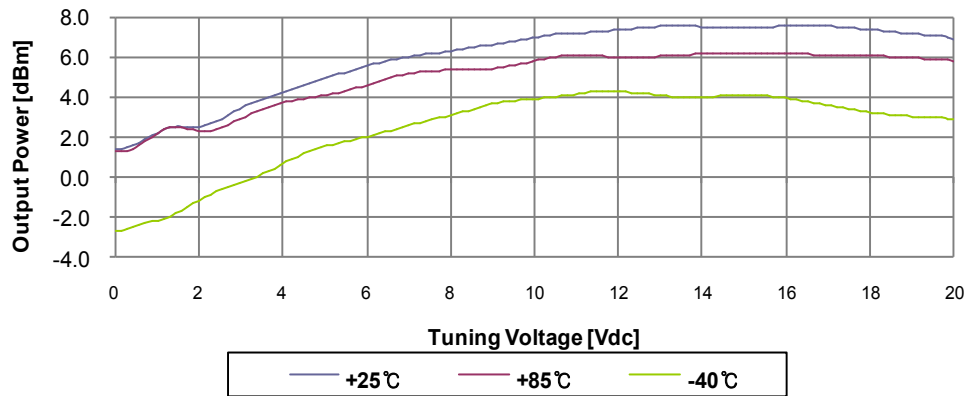


PACKAGE DRAWING : VA16-L

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	1286.2	1274.4	1291.3	-	-	-	1.4	1.2	-2.7	-28.1
1.0	1320.9	1307.8	1325.6	34.7	33.3	34.3	2.2	2.2	-2.1	-27.3
2.0	1365.6	1352.4	1369.9	44.7	44.6	44.4	2.5	2.3	-1.2	-27.3
3.0	1409.5	1396.2	1413.8	44.0	43.8	43.8	3.6	3.0	-0.2	-26.4
4.0	1443.5	1430.0	1447.4	33.9	33.9	33.6	4.3	3.7	0.7	-26.4
5.0	1474.0	1460.5	1477.9	30.5	30.5	30.5	5.0	4.1	1.6	-26.4
6.0	1502.3	1488.5	1506.3	28.3	28.0	28.4	5.6	4.6	2.0	-26.4
7.0	1529.0	1515.1	1533.1	26.7	26.6	26.8	6.0	5.2	2.6	-26.5
8.0	1554.8	1540.5	1559.0	25.8	25.5	25.9	6.3	5.3	3.1	-26.5
9.0	1579.6	1565.0	1584.1	24.9	24.4	25.1	6.6	5.4	3.7	-27.6
10.0	1607.6	1592.3	1612.4	27.9	27.3	28.3	7.0	5.9	3.9	-27.6
11.0	1631.7	1616.1	1636.8	24.1	23.8	24.4	7.2	6.1	4.2	-27.2
12.0	1655.3	1639.2	1661.1	23.6	23.2	24.3	7.4	6.0	4.3	-27.2
13.0	1678.1	1661.3	1685.0	22.8	22.1	23.9	7.5	6.0	4.1	-26.9
14.0	1700.1	1682.6	1707.4	22.0	21.2	22.4	7.5	6.1	4.0	-26.9
15.0	1720.5	1702.7	1728.1	20.4	20.1	20.7	7.5	6.2	4.1	-26.6
16.0	1738.6	1720.4	1746.8	18.0	17.7	18.7	7.5	6.1	4.0	-26.6
17.0	1756.4	1737.5	1764.7	17.9	17.1	18.0	7.5	6.1	3.6	-27.4
18.0	1769.5	1749.6	1777.5	13.1	12.2	12.7	7.4	6.1	3.2	-27.4
19.0	1780.0	1759.4	1787.7	10.6	9.7	10.2	7.2	6.0	3.0	-28.7
20.0	1792.1	1770.6	1799.4	12.1	11.3	11.7	6.9	5.8	2.9	-28.7