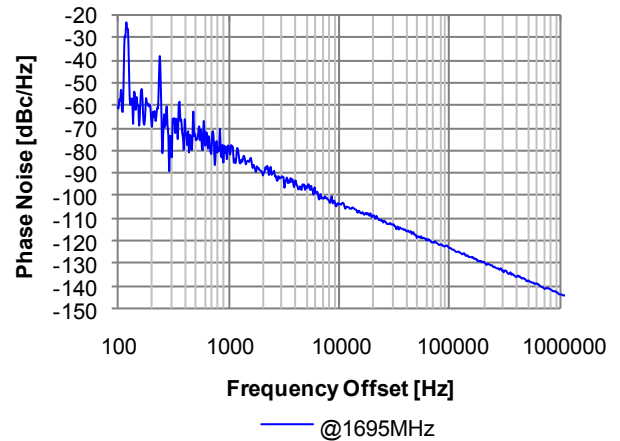


Features

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

Applications

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

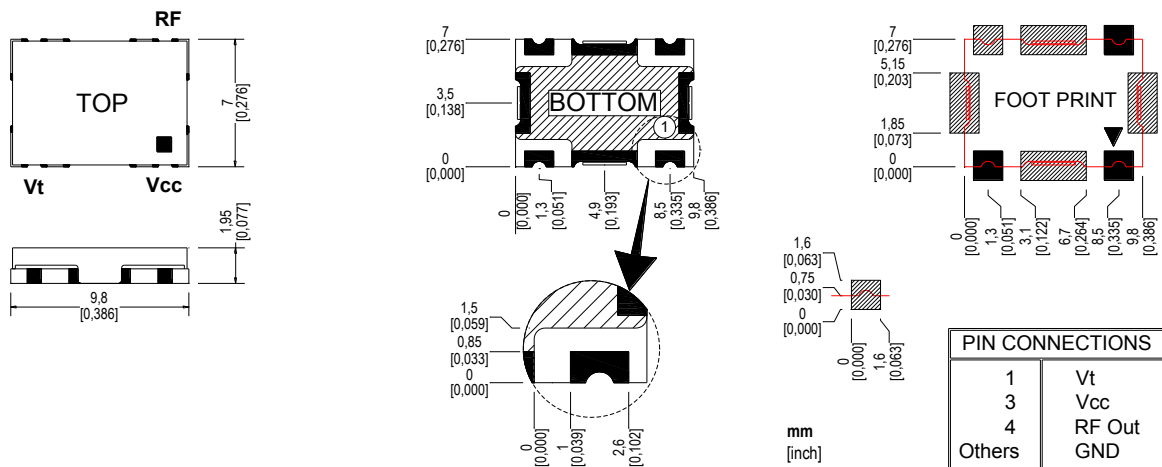


Electrical Characteristics



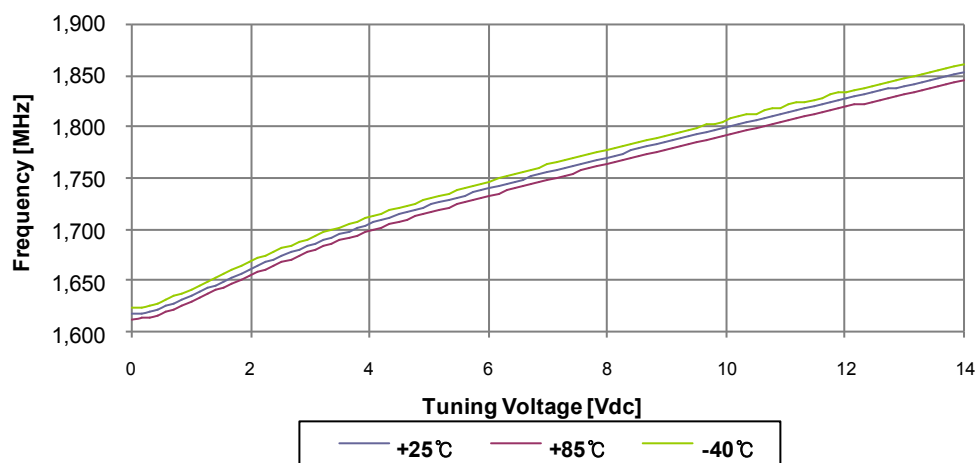
Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	1685		1705
Output Power	dBm	0.0	+2.0	+4.0
Output Impedance	Ω		50	
Phase Noise @10kHz offset	dBc/Hz		-102	-97
Phase Noise @100kHz offset	dBc/Hz		-122	-117
Tuning Voltage (Vt)	Vdc	1.0		4.0
Tuning Voltage Sensitivity (Kv)	MHz/V		12 - 26.5	
2nd Harmonic Suppression	dBc		-26	-20
Power Supply (Vcc) Voltage	Vdc		5	
Power Supply (Vcc) Current	mA		14	25
Pushing Figure	MHz/V		4	
Pulling Figure	MHz		0.89	
Input Capacitance	pF		100	
Operating Temp. Range	°C	-40		+85

Dimensions

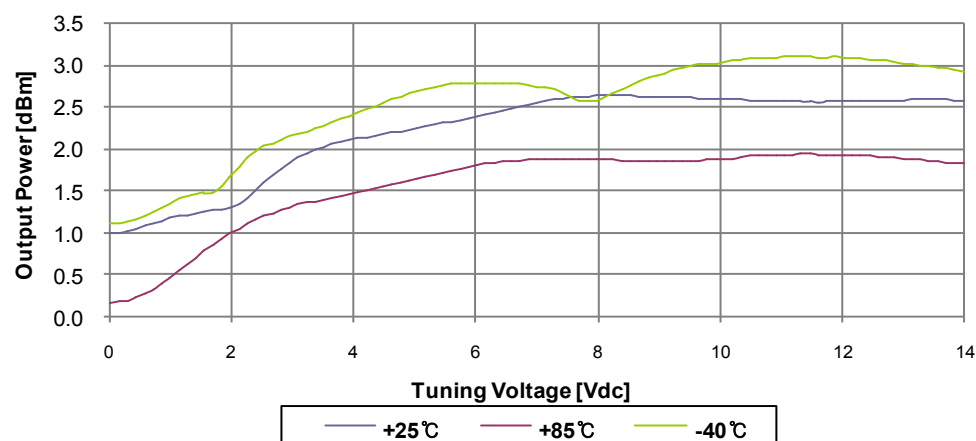


PACKAGE DRAWING : VD4-L

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	1618.0	1613.2	1624.3	-	-	-	1.0	0.2	1.1	-29.9
1.0	1635.5	1630.0	1642.2	17.5	16.7	17.9	1.2	0.5	1.4	-29.7
2.0	1661.0	1654.9	1668.5	25.5	25.0	26.4	1.3	1.0	1.7	-29.5
3.0	1687.1	1680.6	1694.0	26.1	25.7	25.5	1.9	1.3	2.2	-31.0
4.0	1706.8	1699.9	1713.2	19.6	19.3	19.1	2.1	1.5	2.4	-30.1
5.0	1724.2	1717.1	1730.6	17.5	17.2	17.4	2.2	1.6	2.7	-29.5
6.0	1740.3	1733.2	1747.1	16.1	16.1	16.6	2.4	1.8	2.8	-30.4
7.0	1755.5	1748.6	1762.8	15.2	15.4	15.7	2.6	1.9	2.7	-30.6
8.0	1770.2	1763.3	1777.5	14.8	14.7	14.7	2.6	1.9	2.6	-31.3
9.0	1784.5	1777.3	1791.5	14.3	14.0	14.0	2.6	1.9	2.9	-32.8
10.0	1800.3	1792.7	1807.3	15.8	15.4	15.8	2.6	1.9	3.0	-33.6
11.0	1813.8	1805.9	1820.9	13.4	13.2	13.6	2.6	1.9	3.1	-34.2
12.0	1827.1	1819.0	1834.4	13.3	13.1	13.5	2.6	1.9	3.1	-36.6
13.0	1840.0	1831.9	1847.8	12.9	12.9	13.4	2.6	1.9	3.0	-38.5
14.0	1852.6	1844.5	1860.7	12.6	12.6	12.9	2.6	1.8	2.9	-38.0