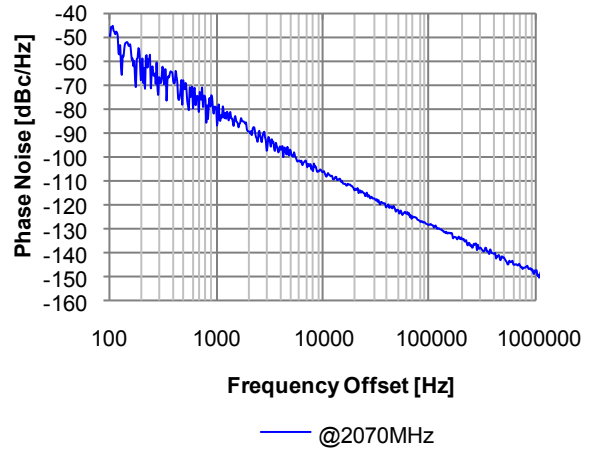


Features

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

Applications

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

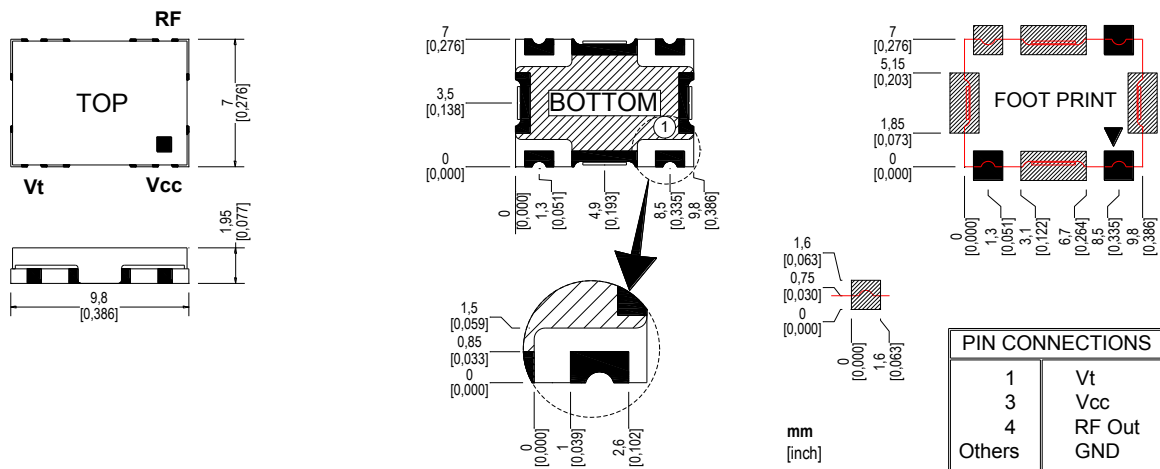


Electrical Characteristics



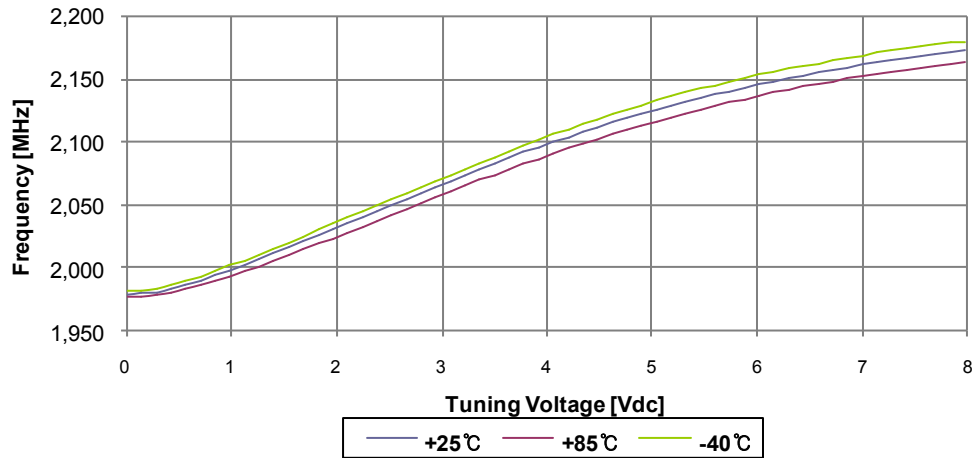
Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	2045		2095
Output Power	dBm	-6.0		+2.0
Output Impedance	Ω		50	
Phase Noise	@10kHz offset	dBc/Hz	-104	-99
	@100kHz offset	dBc/Hz	-127	-122
Tuning Voltage (Vt)	Vdc	1.0		4.0
Tuning Voltage Sensitivity (Kv)	MHz/V		11 - 39.1	
2nd Harmonic Suppression	dBc		-23	-15
Power Supply (Vcc)	Voltage	Vdc	5	
	Current	mA	20	30
Pushing Figure	MHz/V		4	
Pulling Figure	MHz		1.2	
Input Capacitance	pF		33	
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

Dimensions

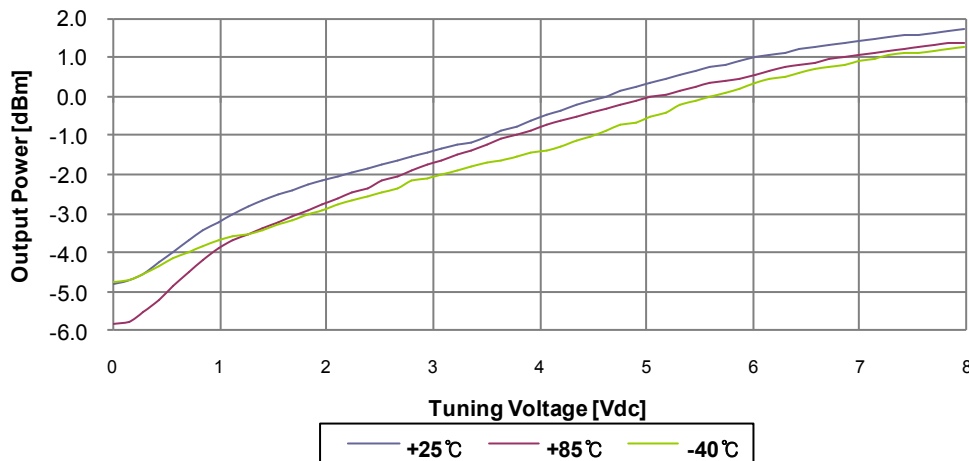


PACKAGE DRAWING : VD4-L

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	1979.0	1977.4	1981.2	-	-	-	-4.8	-5.8	-4.8	-24.8
1.0	1998.0	1993.3	2001.9	18.9	15.9	20.6	-3.2	-3.9	-3.7	-22.6
2.0	2030.3	2023.7	2035.1	32.4	30.5	33.3	-2.2	-2.8	-2.9	-20.7
3.0	2069.0	2060.9	2074.2	38.7	37.1	39.1	-1.3	-1.6	-2.0	-18.5
4.0	2100.5	2091.3	2106.6	31.5	30.4	32.3	-0.5	-0.7	-1.4	-18.9
5.0	2126.1	2116.7	2133.3	25.7	25.5	26.8	0.3	0.0	-0.5	-20.1
6.0	2146.2	2137.2	2153.7	20.0	20.5	20.4	1.0	0.6	0.3	-23.6
7.0	2161.6	2152.6	2169.4	15.4	15.4	15.7	1.4	1.1	0.9	-26.0
8.0	2172.7	2163.7	2180.4	11.1	11.1	11.0	1.7	1.4	1.3	-28.9