

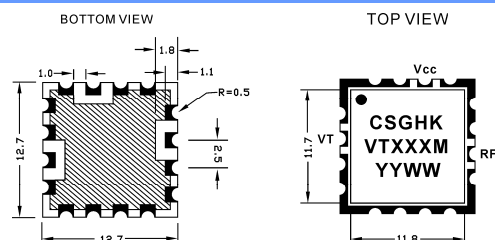
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 900-2000MHz

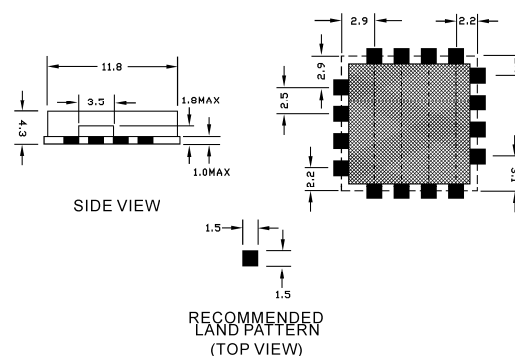
VL2000M

FEATURES:

- ▶ Miniature Size
- ▶ Surface Mount Package
- ▶ Low Phase Noise Performance
- ▶ Electrically Shielded
- ▶ Highly Linear Tuning



ALL OTHER PINS ARE GROUND



Electrical Specifications, $T_A = +25^{\circ}\text{C}$, $V_{CC} = +12.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		900		2000	MHz
Tuning Voltage (V)		1.0		20	V
RF Output Power	900-2000MHz	5.0		9.0	dBm
Supply Voltage (Vcc)		11.50		12.50	V
Supply Current (Icc)			27	30	mA
Phase Noise :					
	@10kHz Offset:		-100	-95	dBc/Hz
	@100kHz Offset:		-120	-115	dBc/Hz
Average Tuning Sensitivity	900-2000MHz		65		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-40		+85	$^{\circ}\text{C}$
Tune Input Capacitance			47		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				



SMD Voltage Controlled Oscillator

Frequency 900-2000MHz

VL2000M

Tuning Voltage (V)	-40℃			+25℃			+85℃		
	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)
1	840.4	7.3	-	823.1	7.0	-	802.4	6.7	-
2	923.4	7.6	-	902.2	7.2	-	883.1	6.7	-
3	1013.1	7.9	-	994.7	7.4	-	979.5	6.3	-
4	1108.0	8.0	-	1092.3	7.1	-	1080.3	5.9	-
5	1197.3	7.9	-	1186.4	7.0	-	1178.3	5.7	-
6	1284.9	7.9	-	1276.6	6.4	-	1269.1	5.3	-
7	1367.3	7.5	-	1359.8	6.3	-	1351.5	5.3	-
8	1443.4	7.0	-	1435.3	6.1	-	1427.2	5.4	-
9	1514.4	6.8	-	1504.9	6.2	-	1496.2	5.4	-
10	1580.3	6.6	-	1569.7	6.0	-	1561.9	5.2	-
11	1643.0	6.4	-	1632.1	5.9	-	1623.9	5.2	-
12	1702.1	6.3	-	1691.3	6.0	-	1682.1	5.2	-
13	1757.3	6.6	-	1746.1	6.2	-	1736.6	5.2	-
14	1809.6	6.8	-	1798.0	6.3	-	1788.7	5.2	-
15	1859.2	7.0	-	1848.0	6.2	-	1838.0	4.9	-
16	1906.3	6.8	-	1893.3	6.0	-	1883.2	5.2	-
17	1950.2	6.8	-	1937.3	6.6	-	1926.5	5.7	-
18	1991.2	7.5	-	1979.1	6.6	-	1969.1	5.3	-
19	2031.2	7.0	-	2017.6	6.3	-	2006.1	5.7	-
20	2066.2	7.6	-	2052.7	7.2	-	2042.2	5.9	-