

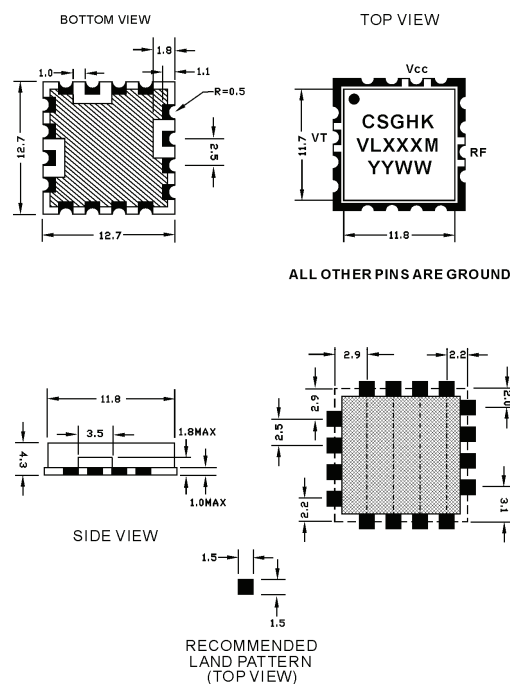
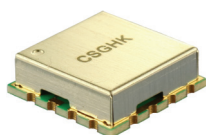
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 1000-2000MHz

VL2000N

FEATURES:

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



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		1000		2000	MHz
Tuning Voltage (V)		2.0		18.0	V
RF Output Power	1000-2000MHz	6.0		11.0	dBm
Supply Voltage (Vcc)		11.75	12	12.25	V
Supply Current (Icc)			25	28	mA
Phase Noise :					
	@10kHz Offset:		-106	-102	dBc/Hz
	@100kHz Offset:		-127	-123	dBc/Hz
Average Tuning Sensitivity	1000-2000MHz		70		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-40		+85	$^{\circ}\text{C}$
Tune Input Capacitance			22		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				



SMD Voltage Controlled Oscillator

Frequency 1000-2000MHz

VL2000N

Tuning Voltage (V)	-55℃			+25℃			+85℃		
	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)
1.0	875.0	9.3	-	855.6	8.6	-	835.3	8.6	-
2.0	962.2	9.4	-	942.4	9.2	-	925.9	8.1	-
3.0	1051.7	9.7	-	1032.6	8.9	-	1019.2	7.5	-
4.0	1137.3	10.1	-	1121.1	9.1	-	1111.3	7.3	-
5.0	1220.4	9.7	-	1207.9	8.7	-	1198.2	7.1	-
6.0	1303.6	9.4	-	1292.5	7.7	-	1283.6	6.3	-
7.0	1387.8	7.8	-	1376.8	6.9	-	1366.7	5.9	-
8.0	1468.2	7.1	-	1455.9	6.8	-	1444.7	6.0	-
9.0	1545.5	7.4	-	1529.5	7.3	-	1520.8	6.3	-
10.0	1618.4	7.6	-	1602.6	7.6	-	1594.1	6.3	-
11.0	1686.5	7.9	-	1674.2	7.6	-	1664.0	6.2	-
12.0	1753.2	8.0	-	1741.9	7.2	-	1729.5	6.5	-
13.0	1818.0	7.7	-	1803.0	7.5	-	1794.0	6.2	-
14.0	1876.9	7.9	-	1863.0	7.3	-	1849.5	6.9	-
15.0	1931.5	7.7	-	1916.6	7.6	-	1905.0	6.3	-
16.0	1983.4	7.6	-	1966.3	7.7	-	1955.8	6.8	-
17.0	2029.8	7.7	-	2012.1	7.8	-	2000.1	7.1	-
18.0	2072.9	7.6	-	2052.6	7.9	-	2040.1	7.3	-
19.0	2109.1	7.5	-	2089.7	8.2	-	2077.9	7.2	-
20.0	2139.9	8.1	-	2124.2	7.8	-	2107.4	6.6	-