

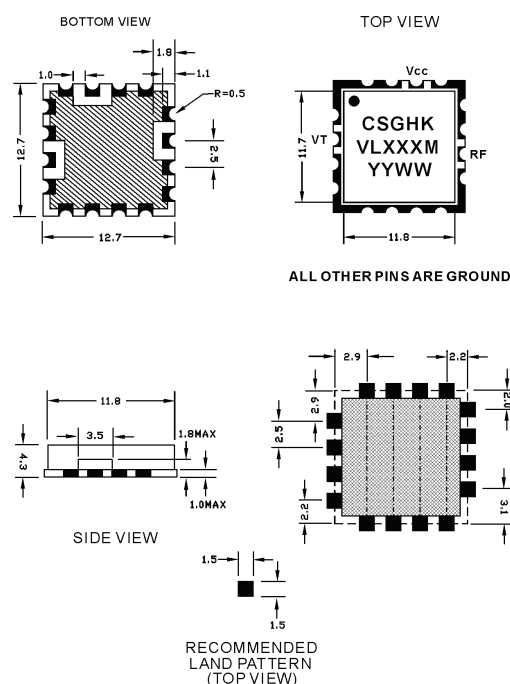
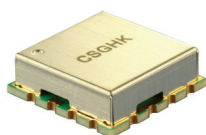
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 898-1380MHz

VL1380M

FEATURES:

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



Electrical Specifications, $T_A = +25^{\circ}\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		898		1380	MHz
Tuning Voltage (V)		0.5		15	V
RF Output Power	898-1380MHz	2.0		6.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			17	20	mA
Phase Noise :					
	@10kHz Offset:		-107	-103	dBc/Hz
	@100kHz Offset:		-128	-124	dBc/Hz
Average Tuning Sensitivity	898-1380MHz		37.2		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-55		+85	$^{\circ}\text{C}$
Tune Input Capacitance			33		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				



SMD Voltage Controlled Oscillator

Frequency 898-1380MHz

VL1380M

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)
0.5	879.2	4.4	-5.4	872.1	4.1	-8.5	865.7	2.5	-16.3
1.0	902.7	4.6	-5.3	895.8	4.1	-9.0	889.6	2.7	-16.4
2.0	945.7	4.8	-5.4	938.9	4.3	-8.3	933.3	2.9	-14.9
3.0	986.5	4.8	-5.5	980.1	4.3	-8.5	975.0	2.9	-14.5
4.0	1026.3	4.8	-6.2	1019.5	4.2	-9.2	1014.6	3.1	-14.8
5.0	1064.5	4.7	-6.5	1058.9	4.1	-9.8	1053.5	3.0	-14.9
6.0	1103.5	4.4	-7.6	1097.5	3.8	-11.5	1091.8	3.0	-16.7
7.0	1141.2	3.9	-9.7	1135.2	3.5	-13.1	1129.5	2.9	-18.0
8.0	1180.0	3.2	-12.5	1173.0	3.1	-16.2	1166.5	2.7	-21.1
9.0	1217.1	3.0	-16.6	1210.0	3.1	-19.7	1203.2	2.8	-23.2
10.0	1254.0	2.9	-17.1	1246.8	3.0	-19.9	1239.7	2.7	-24.3
11.0	1290.0	3.2	-14.9	1282.3	3.3	-17.7	1275.4	2.9	-22.9
12.0	1325.1	3.4	-13.0	1317.1	3.5	-16.2	1310.5	3.0	-21.5
13.0	1358.9	3.6	-12.3	1350.5	3.7	-15.7	1343.9	3.2	-21.2
14.0	1390.8	3.7	-11.8	1383.0	3.8	-15.5	1375.8	3.3	-21.2
15.0	1420.8	3.9	-11.9	1412.5	4.0	-15.8	1405.9	3.4	-21.5