

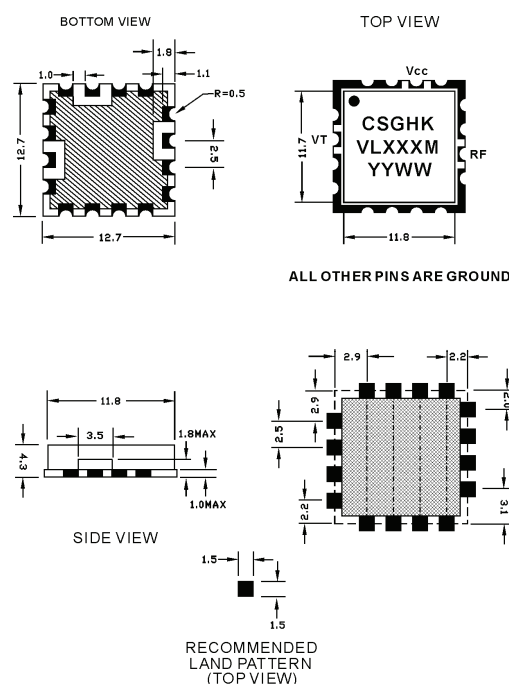
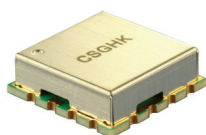
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 600-900MHz

VL900M

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		600		900	MHz
Tuning Voltage (V)		0.5		7.5	V
RF Output Power	600-900MHz	5.0		9.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			21	24	mA
Phase Noise :					
	@10kHz Offset:		-107	-104	dBc/Hz
	@100kHz Offset:		-127	-124	dBc/Hz
Average Tuning Sensitivity	600-900MHz		48.3		MHz/V
Harmonic Outputs			-8.0		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 600-900MHz

VL900M

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)
0.5	591.3	9.2	-6.6	583.4	8.6	-8.1	577.3	8.0	-9.8
1.0	628.5	8.9	-8.8	620.4	8.6	-9.4	613.0	8.0	-10.3
1.5	659.6	8.7	-9.4	651.8	8.4	-9.1	644.0	7.9	-10.2
2.0	687.1	8.6	-9.2	678.9	8.5	-9.0	671.5	7.9	-10.6
2.5	712.8	8.5	-8.7	704.9	8.3	-8.6	697.7	7.6	-10.1
3.0	736.6	8.4	-8.1	729.2	8.1	-8.1	722.8	7.6	-10.3
3.5	760.3	8.3	-7.7	752.1	8.2	-8.4	745.9	7.3	-10.7
4.0	782.6	8.3	-7.4	774.7	8.1	-7.8	769.5	7.0	-10.4
4.5	804.2	8.3	-7.2	796.2	8.1	-8.1	791.5	6.8	-11.2
5.0	825.2	8.4	-7.3	817.6	7.9	-8.2	813.8	6.5	-11.2
5.5	846.0	8.2	-6.6	839.6	7.5	-8.3	835.6	6.1	-12.0
6.0	865.4	8.3	-6.9	859.9	7.1	-8.6	855.8	5.9	-11.8
6.5	886.1	7.8	-7.0	881.3	6.7	-9.4	876.5	5.7	-13.3
7.0	906.9	7.1	-7.5	901.2	6.4	-9.9	896.4	5.6	-13.4
7.5	926.9	6.5	-7.8	921.3	5.9	-10.2	916.4	5.4	-14.2