

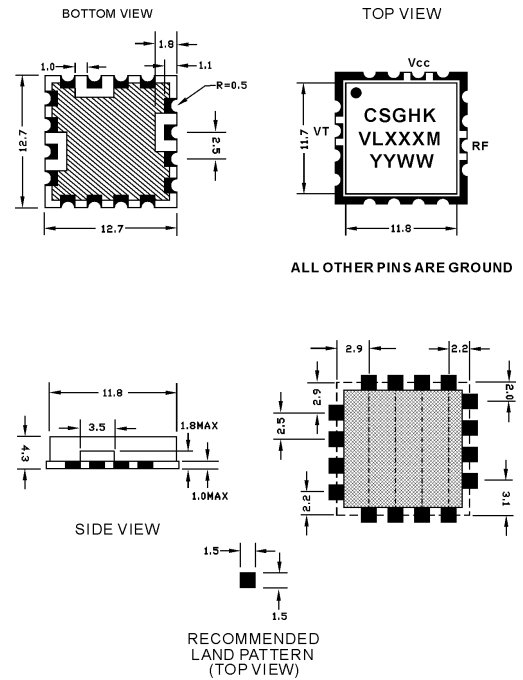
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 950-2150MHz

VL2150A

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		950		2150	MHz
Tuning Voltage (V)		0.5		20	V
RF Output Power	950-2150MHz	5.0		9.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			21	24	mA
Phase Noise :					
	@10kHz Offset:		-101	-97	dBc/Hz
	@100kHz Offset:		-121	-118	dBc/Hz
Average Tuning Sensitivity	950-2150MHz		74.7		MHz/V
Harmonic Outputs			-15	-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 950-2150MHz

VT2150A

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	873.7	6.3	-	858.9	6.6	-	832.4	6.7	-
1.0	925.8	6.3	-	904.4	6.9	-	882.8	6.5	-
2.0	1024.6	7.5	-	1005.5	7.2	-	985.2	6.1	-
3.0	1123.1	7.7	-	1102.3	7.2	-	1086.6	5.4	-
4.0	1213.8	7.9	-	1198.0	7.1	-	1185.7	4.9	-
5.0	1306.1	7.4	-	1292.3	6.5	-	1280.1	4.9	-
6.0	1393.6	7.4	-	1382.8	6.4	-	1371.8	4.4	-
7.0	1483.6	6.0	-	1469.3	6.1	-	1459.5	4.7	-
8.0	1569.8	6.0	-	1553.1	6.2	-	1542.4	5.0	-
9.0	1650.5	6.1	-	1634.3	6.3	-	1623.4	5.1	-
10.0	1727.5	5.8	-	1711.3	6.2	-	1700.8	5.1	-
11.0	1801.4	5.5	-	1786.4	6.1	-	1775.4	4.7	-
12.0	1870.3	5.7	-	1857.5	5.8	-	1845.2	4.3	-
13.0	1938.2	5.7	-	1922.9	5.4	-	1908.3	5.1	-
14.0	1998.9	5.0	-	1982.0	5.8	-	1970.6	5.1	-
15.0	2054.3	5.5	-	2038.9	5.4	-	2024.1	5.3	-
16.0	2103.7	5.4	-	2089.9	5.8	-	2075.5	4.7	-
17.0	2151.8	5.1	-	2134.6	5.7	-	2120.1	4.8	-
18.0	2193.2	4.8	-	2174.9	5.9	-	2161.0	5.2	-
19.0	2229.2	5.1	-	2211.6	5.8	-	2196.0	4.8	-
20.0	2258.6	5.2	-	2242.6	5.7	-	2224.2	5.2	-