

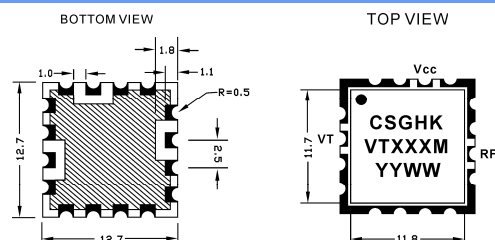
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 950-2150MHz

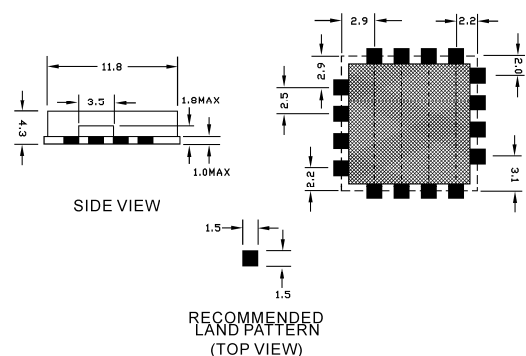
VL2150M

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		950		2150	MHz
Tuning Voltage (V)		0.5		20	V
RF Output Power	950-2150MHz	7.0		10.0	dBm
Supply Voltage (Vcc)		11.75	12	12.25	V
Supply Current (Icc)			24	27	mA
Phase Noise :					
	@10kHz Offset:		-101	-97	dBc/Hz
	@100kHz Offset:		-122	-118	dBc/Hz
Average Tuning Sensitivity	950-2150MHz		70		MHz/V
Harmonic Outputs			-		dBc
OperatingTemperature Range		-40		+85	$^{\circ}\text{C}$
Tune Input Capacitance			27		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				



SMD Voltage Controlled Oscillator

Frequency 950-2150MHz

VL2150M

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	860.8	8.5	-	835.2	9.0	-	809.1	8.4	-
1.0	907.0	8.6	-	882.2	9.1	-	860.9	7.6	-
2.0	989.7	8.6	-	967.6	8.6	-	949.4	6.9	-
3.0	1065.9	8.6	-	1045.7	8.2	-	1031.5	5.5	-
4.0	1140.5	8.8	-	1121.8	8.1	-	1110.3	5.4	-
5.0	1216.4	8.8	-	1198.5	8.0	-	1188.2	5.6	-
6.0	1295.1	8.8	-	1277.1	7.7	-	1267.3	6.0	-
7.0	1376.2	8.8	-	1358.6	7.6	-	1348.6	6.0	-
8.0	1457.0	9.0	-	1440.6	7.6	-	1430.5	6.2	-
9.0	1537.2	9.1	-	1521.5	7.7	-	1511.5	6.4	-
10.0	1618.5	8.8	-	1603.4	7.5	-	1591.5	6.5	-
11.0	1696.9	8.1	-	1683.7	7.2	-	1670.9	6.5	-
12.0	1776.0	7.7	-	1760.6	7.0	-	1747.5	6.4	-
13.0	1848.2	7.4	-	1834.2	7.0	-	1817.8	6.4	-
14.0	1917.1	7.5	-	1900.4	7.2	-	1884.6	6.5	-
15.0	1979.4	7.7	-	1963.1	7.2	-	1946.4	6.4	-
16.0	2038.8	7.8	-	2019.5	7.5	-	2002.4	6.5	-
17.0	2092.0	7.9	-	2073.8	7.4	-	2053.5	6.6	-
18.0	2141.3	8.3	-	2123.0	7.5	-	2100.5	6.4	-
19.0	2189.1	8.4	-	2167.6	7.5	-	2144.1	6.0	-
20.0	2233.6	8.4	-	2209.4	7.6	-	2184.2	5.2	-