

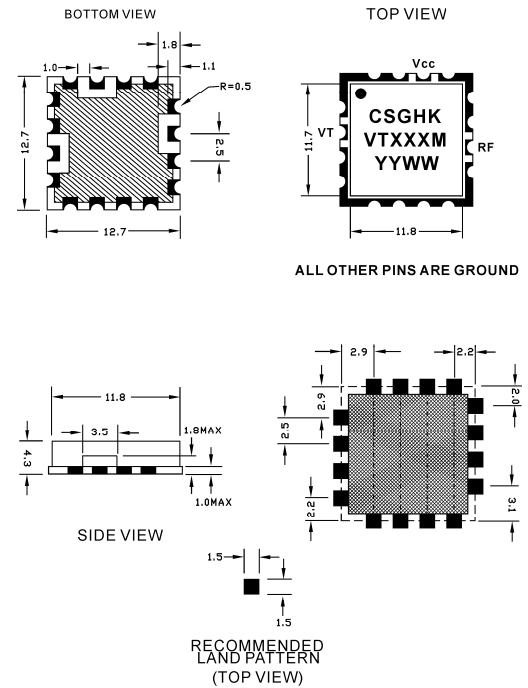
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 930-1442MHz

VL1442A

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		930		1442	MHz
Tuning Voltage (V)		1.0		18.0	V
RF Output Power	930-1442MHz	2.0		6.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			20	23	mA
Phase Noise :					
	@10kHz Offset:		-106	-101	dBc/Hz
	@100kHz Offset:		-127	-122	dBc/Hz
Average Tuning Sensitivity	930-1442MHz		34.3		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-55		+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 930-1442MHz

VL1442A

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	896.5	5.0	-	886.3	4.6	-	883.8	3.0	-
2.0	922.0	5.0	-	912.2	4.4	-	910.4	2.8	-
3.0	947.2	5.1	-	938.8	4.1	-	936.4	2.8	-
4.0	976.7	5.1	-	970.0	3.7	-	966.9	2.6	-
5.0	1010.5	4.7	-	1004.5	3.2	-	1001.0	2.5	-
6.0	1051.6	3.7	-	1044.6	2.8	-	1040.2	2.3	-
7.0	1094.2	2.9	-	1086.1	2.6	-	1080.3	2.4	-
8.0	1135.8	2.6	-	1127.2	2.6	-	1120.9	2.4	-
9.0	1175.9	2.5	-	1166.7	2.6	-	1160.3	2.5	-
10.0	1213.9	2.6	-	1204.3	2.8	-	1197.8	2.7	-
11.0	1251.2	2.8	-	1241.4	2.9	-	1234.4	2.8	-
12.0	1286.8	2.8	-	1277.0	3.0	-	1269.4	3.0	-
13.0	1321.5	3.0	-	1311.7	3.2	-	1304.5	3.0	-
14.0	1355.7	3.1	-	1345.1	3.3	-	1338.1	3.0	-
15.0	1388.1	3.2	-	1378.6	3.4	-	1371.3	3.1	-
16.0	1420.4	3.3	-	1409.9	3.3	-	1402.2	3.2	-
17.0	1451.1	3.3	-	1440.5	3.4	-	1433.2	3.2	-
18.0	1480.2	3.3	-	1469.4	3.5	-	1462.7	3.2	-