

SURFACE MOUNT MODEL

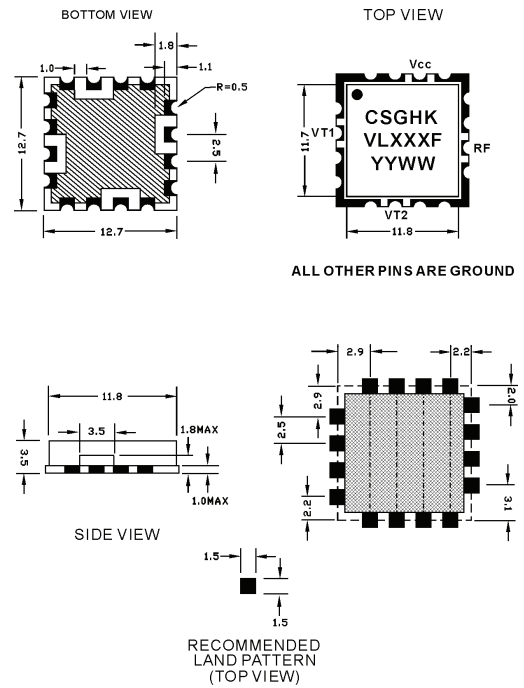
VOLTAGE CONTROLLED OSCILLATOR

Frequency 1325-1612MHz

VL1612F

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		1325		1612	MHz
Tuning Voltage :					
	VT1:	1.6		2.6	V
	VT2:	-0.5		-8.0	V
RF Output Power	1325-1612MHz	5.0		9.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			20	23	mA
Phase Noise :					
	@10kHz Offset:		-106	-103	dBc/Hz
	@100kHz Offset:		-126	-123	dBc/Hz
Average Tuning Sensitivity	1325-1612MHz		50		MHz/V
Harmonic Outputs			-10		dBc
Operating Temperature Range		-55		+85	$^{\circ}\text{C}$
Tune Input Capacitance			22		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X3.5mm)				

SMD Voltage Controlled Oscillator

Frequency 1325-1612MHz

VL1612F

VT2 (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)
VT1=1.6V									
-0.5	1257.0	8.7	-	1245.4	7.9	-	1237.9	6.2	-
-1.0	1282.2	8.8	-	1272.3	7.6	-	1264.2	6.3	-
-2.0	1334.0	8.5	-	1323.6	7.7	-	1316.2	6.2	-
-3.0	1385.1	8.3	-	1375.8	7.5	-	1366.3	6.4	-
-4.0	1435.8	8.2	-	1426.8	7.5	-	1417.8	6.5	-
-5.0	1484.3	8.5	-	1475.6	7.6	-	1468.3	6.5	-
-6.0	1534.2	8.4	-	1523.8	7.7	-	1516.9	6.5	-
-7.0	1583.8	8.3	-	1574.0	7.6	-	1565.0	6.5	-
-8.0	1633.1	8.0	-	1623.9	7.3	-	1614.0	6.3	-
VT1=2.1V									
-0.5	1281.3	8.7	-	1271.7	7.6	-	1263.8	6.2	-
-1.0	1307.7	8.5	-	1298.2	7.7	-	1289.0	6.4	-
-2.0	1359.0	8.3	-	1349.7	7.4	-	1341.2	6.3	-
-3.0	1409.1	8.4	-	1399.7	7.6	-	1392.1	6.2	-
-4.0	1460.0	8.4	-	1450.1	7.6	-	1441.3	6.5	-
-5.0	1509.9	8.3	-	1500.7	7.6	-	1491.1	6.5	-
-6.0	1557.9	8.4	-	1549.5	7.6	-	1541.2	6.4	-
-7.0	1607.8	8.2	-	1597.6	7.5	-	1589.8	6.3	-
-8.0	1657.2	7.8	-	1646.1	7.4	-	1637.3	6.2	-
VT1=2.6V									
-0.5	1307.5	8.4	-	1298.0	7.6	-	1288.3	6.2	-
-1.0	1332.4	8.4	-	1322.8	7.5	-	1315.3	6.1	-
-2.0	1384.3	8.3	-	1375.3	7.5	-	1365.3	6.3	-
-3.0	1434.6	8.1	-	1425.9	7.4	-	1416.9	6.4	-
-4.0	1483.5	8.5	-	1475.3	7.5	-	1466.9	6.4	-
-5.0	1533.8	8.3	-	1523.2	7.7	-	1516.1	6.4	-
-6.0	1583.2	8.3	-	1573.7	7.5	-	1564.2	6.5	-
-7.0	1633.2	7.9	-	1623.5	7.2	-	1612.8	6.3	-
-8.0	1680.4	7.7	-	1670.5	7.2	-	1661.0	6.2	-