

SURFACE MOUNT MODEL

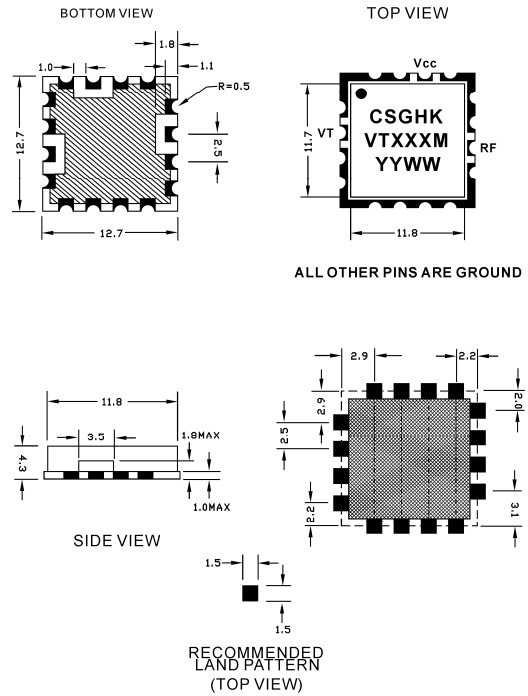
VOLTAGE CONTROLLED OSCILLATOR

Frequency 1015-1115MHz

VT1115M

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		1015		1115	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	1015-1115MHz	-3.0		+3.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			15	20	mA
Phase Noise :					
	@10kHz Offset:		-103	-100	dBc/Hz
	@100kHz Offset:		-123	-120	dBc/Hz
Average Tuning Sensitivity	1015-1115MHz		33.5		MHz/V
Harmonic Outputs			-15		dBc
OperatingTemperature Range		-40		+85	$^\circ\text{C}$
Tune Input Capacitance			33		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				



SMD Voltage Controlled Oscillator

Frequency 1015-1115MHz

VT1115M

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	999.4	1.6	-13.2	996.2	0.6	-15.2	992.1	-0.2	-17.2
1.0	1022.3	1.6	-14.5	1018.0	1.2	-17.0	1013.5	0.2	-19.2
1.5	1042.1	2.0	-16.6	1038.1	1.4	-19.6	1033.5	0.0	-20.3
2.0	1059.3	2.1	-17.7	1055.2	1.2	-20.4	1051.0	0.1	-21.0
2.5	1075.2	1.9	-18.7	1070.5	1.2	-21.0	1066.4	0.4	-22.3
3.0	1091.8	2.1	-19.2	1086.5	1.4	-21.6	1081.7	0.5	-23.0
3.5	1107.5	2.2	-19.8	1102.1	1.6	-21.7	1097.2	0.3	-23.1
4.0	1121.5	2.2	-19.9	1116.6	1.4	-21.4	1112.0	0.4	-23.4
4.5	1135.1	2.1	-20.0	1130.1	1.4	-21.4	1125.4	0.6	-23.8