

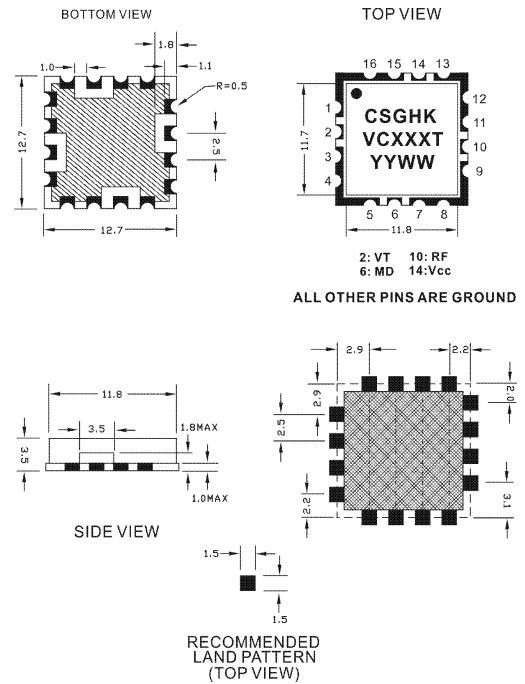
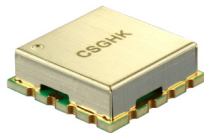
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 370-393MHz

VT393MT

FEATURES:

- ▶ Miniature Size
- ▶ Surface Mount Package
- ▶ Low Phase Noise Performance
- ▶ Electrically Shielded
- ▶ Highly Linear Tuning



Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +4.3\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		370		393	MHz
Tuning Voltage (V)		0.3		3.0	V
RF Output Power	370-393MHz	0.0		4.0	dBm
Supply Voltage (Vcc)		4.05	4.3	4.55	V
Supply Current (Icc)			12	15	mA
Phase Noise :					
	@10kHz Offset:		-119	-116	dBc/Hz
	@100kHz Offset:		-140	-137	dBc/Hz
Average Tuning Sensitivity	370-393MHz		16.2		MHz/V
Modulation deviation	@Freq:1kHz Ampl:1V		± 200		KHz
Harmonic Outputs			-25		dBc
OperatingTemperature Range		-25		+55	$^\circ\text{C}$
Tune Input Capacitance			100		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				

V TUNE	TUNING SENS. (MHz/V)	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
		-25℃	+25℃	+55℃	-25℃	+25℃	+55℃	-25℃	+25℃	+55℃
0.3	16.7	361.8	359.6	357.4	2.4	2.2	1.7	-26.0	-25.7	-26.6
0.5	15.6	365.2	362.9	360.8	2.3	2.2	1.7	-26.1	-26.2	-26.8
1.0	15.6	373.0	370.8	368.6	2.4	2.3	1.8	-27.0	-26.6	-27.2
1.5	16.0	381.2	378.8	376.2	2.4	2.3	1.9	-27.5	-26.9	-27.4
2.0	16.4	389.6	386.9	384.2	2.3	2.4	1.9	-28.7	-27.4	-27.6
2.5	16.1	398.0	395.1	392.6	2.4	2.4	1.8	-29.3	-27.9	-28.1
3.0	15.4	405.4	403.1	401.0	2.4	2.4	1.8	-28.3	-27.7	-28.9

Phase Noise [dBc/Hz]

RF Atten 5 dB

Top -80 dBc/Hz

