

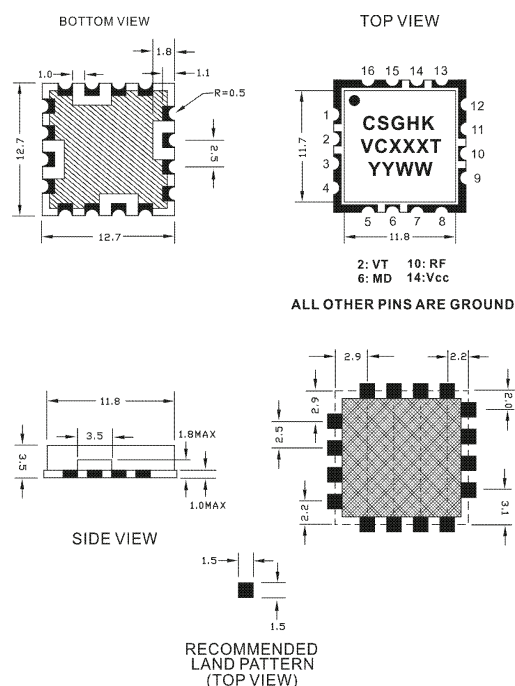
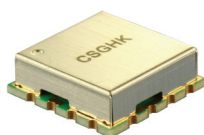
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 390-440MHz

VT440MF

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		390		440	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	390-440MHz	3.0		7.0	dBm
Supply Voltage (Vcc)		4.10	4.3	4.50	V
Supply Current (Icc)			13	16	mA
Phase Noise :					
	@12.5kHz Offset:		-115	-112	dBc/Hz
	@100kHz Offset:		-135	-132	dBc/Hz
Average Tuning Sensitivity	390-440MHz				MHz/V
Modulation deviation	@Freq:1kHz Ampl:500mV		± 20		KHz
Harmonic Outputs			-5		dBc
OperatingTemperature Range		-55		+85	$^\circ\text{C}$
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)		
		-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
0.5	19.7	383.2	380.6	379.0	4.7	4.6	4.5	-7.1	-9.2	-10.1
1.0	17.8	392.6	390.2	388.4	4.7	4.7	4.7	-7.4	-9.4	-10.2
1.5	17.3	401.4	399.0	396.8	4.9	4.9	4.9	-7.7	-9.2	-10.1
2.0	16.7	410.0	407.4	405.2	4.9	5.1	5.1	-7.7	-9.0	-9.8
2.5	16.4	418.6	415.8	413.6	5.0	5.2	5.2	-7.5	-8.7	-9.6
3.0	16.9	427.2	424.2	422.0	5.1	5.4	5.3	-7.1	-8.3	-9.2
3.5	16.5	435.6	432.6	430.6	5.1	5.5	5.3	-6.5	-7.8	-8.7
4.0	16.9	443.8	441.0	439.0	5.0	5.3	5.2	-5.5	-6.9	-8.1
4.5	17.5	452.2	449.6	447.8	4.9	5.2	5.0	-5.2	-6.6	-8.0

Phase Noise [dBc/Hz]

RF Atten 10 dB manual

Top -80 dBc/Hz

