

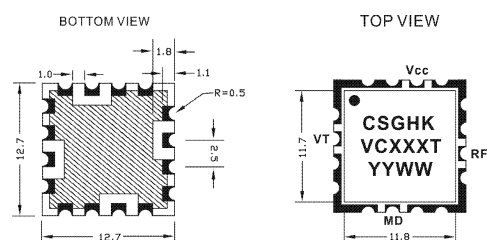
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 350-400MHz

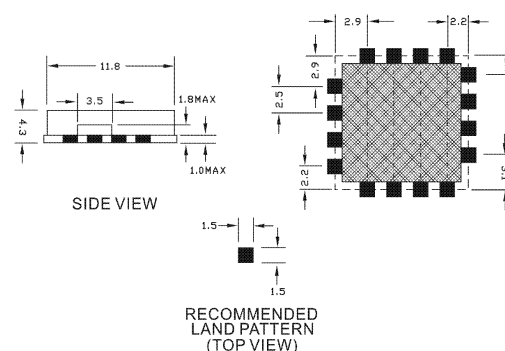
VC375MT

FEATURES:

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



ALL OTHER PINS ARE GROUND



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		350		400	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	350-400MHz	-3.0		3.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			23	26	mA
Phase Noise :					
	@12.5kHz Offset:		-115	-113	dBc/Hz
	@100kHz Offset:		-135	-132	dBc/Hz
Average Tuning Sensitivity	350-400MHz		17.1		MHz/V
Modulation deviation	@Freq:1kHz Ampl:500mV			5	KHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-40		+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)		
		-40℃	+25℃	+85℃	-40℃	+25℃	+85℃	-40℃	+25℃	+85℃
0.5	19.8	343.0	341.0	338.6	1.0	1.5	0.9	-9.1	-10.1	-10.8
1.0	17.8	352.6	350.2	348.2	0.7	1.4	0.8	-9.7	-10.4	-10.8
1.5	17.4	361.8	359.0	356.6	0.5	1.3	0.8	-10.2	-10.5	-11.0
2.0	16.8	370.6	367.6	365.4	0.3	1.2	0.7	-10.4	-10.7	-11.3
2.5	16.4	379.0	376.0	374.0	0.1	1.1	0.5	-10.5	-10.9	-11.4
3.0	17.0	387.6	384.4	382.4	0.0	0.9	0.3	-10.5	-10.9	-11.7
3.5	16.9	396.0	392.8	391.0	-0.2	0.7	0.0	-10.6	-11.1	-12.0
4.0	17.2	404.2	401.4	399.6	-0.4	0.4	-0.2	-10.6	-11.5	-12.4
4.5	17.1	413.0	410.0	408.0	-0.8	0.0	-0.4	-11.1	-11.9	-12.8

Phase Noise [dBc/Hz]

RF Atten 5 dB

Top -80 dBc/Hz

