

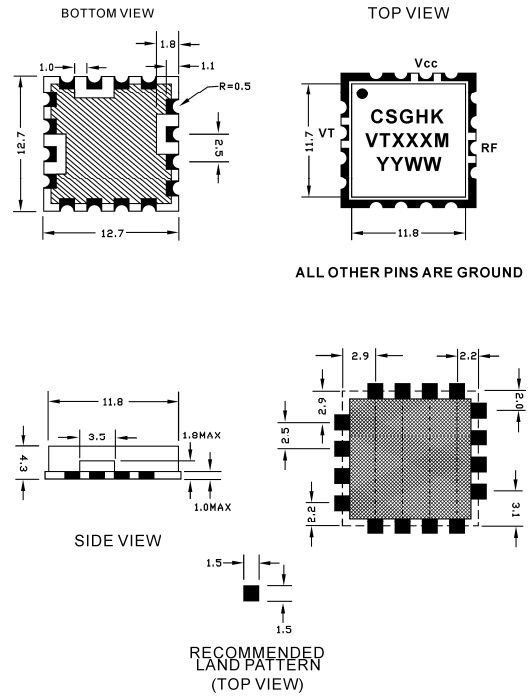
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 545-595MHz

VT595M

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		545		595	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	545-595MHz	0.0		3.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			15	20	mA
Phase Noise :					
	@10kHz Offset:		-107	-104	dBc/Hz
	@100kHz Offset:		-128	-125	dBc/Hz
Average Tuning Sensitivity	545-595MHz		20.7		MHz/V
Harmonic Outputs			-10		dBc
Operating Temperature Range		-45		+85	$^\circ\text{C}$
Tune Input Capacitance			100		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				



SMD Voltage Controlled Oscillator

Frequency 545-595MHz

VT595M

Tuning Voltage (V)	-40°C			+25°C			+85°C		
	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)	Frequency (MHz)	Power (dBm)	2 ⁿ (dBc)
0.5	533.8	1.0	-24.9	529.2	0.5	-33.1	525.0	0.0	-23.0
1.0	544.3	1.0	-25.3	539.2	0.6	-34.1	535.3	0.1	-24.1
1.5	554.7	1.0	-24.8	549.1	0.6	-35.7	545.3	0.1	-25.0
2.0	565.3	1.1	-23.9	559.4	0.6	-38.5	555.5	0.0	-26.9
2.5	575.3	1.2	-23.8	569.6	0.8	-41.7	565.9	0.1	-29.5
3.0	585.7	1.2	-23.7	579.6	0.8	-45.2	576.2	0.1	-29.6
3.5	596.3	1.2	-23.2	590.0	0.8	-40.4	586.8	-0.2	-28.7
4.0	606.8	1.3	-22.9	601.0	0.7	-34.3	598.1	-0.4	-59.1
4.5	616.7	1.4	-22.7	611.8	0.7	-30.7	609.1	-0.5	-28.6