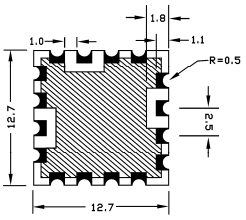
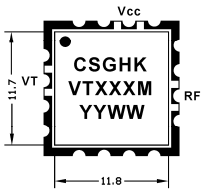
SURFACE MOUNT MODEL
VOLTAGE CONTROLLED OSCILLATOR

Frequency **315-602MHz** **VL602M**

BOTTOM VIEW



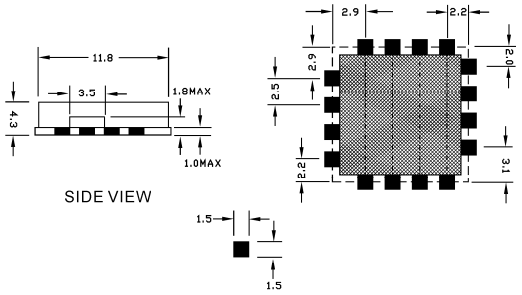
TOP VIEW



ALL OTHER PINS ARE GROUND

FEATURES:

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



RECOMMENDED
LAND PATTERN
(TOP VIEW)

Electrical Specifications,T_A = +25℃,V_{CC} = +12.0V(unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		315		602	MHz
Tuning Voltage (V)		2.0		18.0	V
RF Output Power	315-602MHz	6.0		9.0	dBm
Supply Voltage (Vcc)		11.75	12.0	12.25	V
Supply Current (Icc)			20	25	mA
Phase Noise：					
	@10kHz Offset:		-108	-103	dBc/Hz
	@100kHz Offset:		-128	-125	dBc/Hz
Average Tuning Sensitivity	315-602MHz		21.0		MHz/V
Harmonic Outputs			-15	-10	dBc
OperatingTemperature Range		-55		+85	℃
Tune Input Capacitance			100		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				

Shenzhen Sways Electronic Co., Ltd Tel：86-0755-83938305 Fax：86-0755-83512043 E-mail:csghk@csghk.com

CSGHK

SMD Voltage Controlled Oscillator

Frequency 315-602MHz VL602M

Tuning Voltage (V)	−55℃			+25℃			+85℃		
	Frequency (MHz)	Power (dBm)	2^n (dBc)	Frequency (MHz)	Power (dBm)	2^n (dBc)	Frequency (MHz)	Power (dBm)	2^n (dBc)
2.0	305.8	8.2	−13.7	302.9	7.7	−15.2	301.7	7.2	−16.1
3.0	317.3	8.2	−12.3	313.8	7.9	−13.4	312.2	7.6	−14.4
4.0	328.7	8.2	−11.9	325.7	7.8	−12.6	323.6	7.4	−13.2
5.0	341.6	8.4	−11.5	338.1	8.0	−11.6	335.9	7.6	−12.2
6.0	356.2	8.5	−12.3	351.8	8.1	−12.4	349.3	7.8	−12.9
7.0	312.5	8.3	−11.8	368.1	7.9	−12.2	365.2	7.6	−12.6
8.0	391.3	8.6	−13.7	384.5	8.2	−13.6	382.6	7.9	−15.3
9.0	410.1	8.6	−13.9	405.8	8.1	−14.1	402.2	7.9	−14.4
10.0	432.3	8.5	−14.9	426.7	8.3	−15.5	422.8	7.9	−16.3
11.0	454.0	8.8	−17.4	449.3	8.1	−16.9	446.3	7.8	−17.4
12.0	479.6	8.3	−19.8	473.9	8.0	−18.5	468.9	7.8	−18.2
13.0	505.4	8.3	−20.8	497.2	8.3	−20.3	492.1	8.0	−20.0
14.0	530.4	8.7	−22.1	523.1	8.2	−22.7	518.9	7.7	−23.1
15.0	557.6	8.2	−26.7	552.3	7.7	−24.9	546.6	7.4	−24.7
16.0	586.7	7.7	−28.5	579.8	7.6	−27.3	573.8	7.5	−27.3
17.0	613.9	8.0	−30.4	606.6	7.6	−28.9	603.6	6.9	−30.5
18.0	639.6	7.5	−32.1	635.9	6.8	−33.8	633.2	6.3	−35.7

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