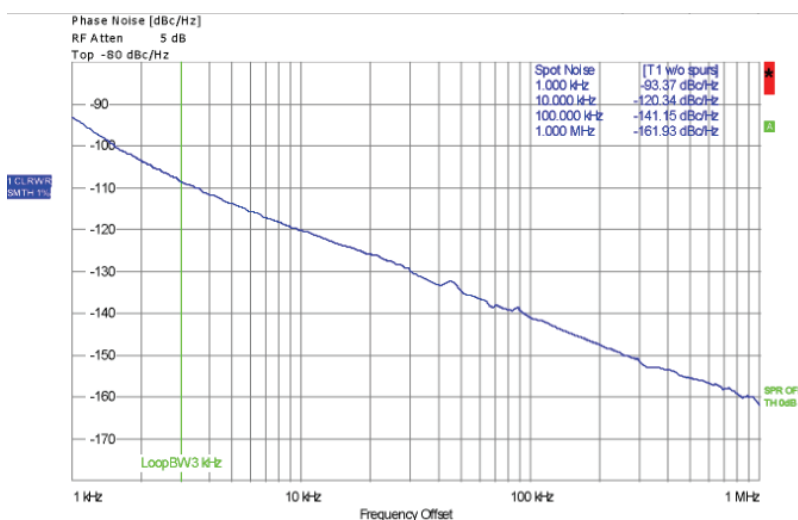
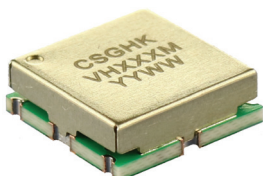


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 170-235MHz

VH202MR



FEATURES

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

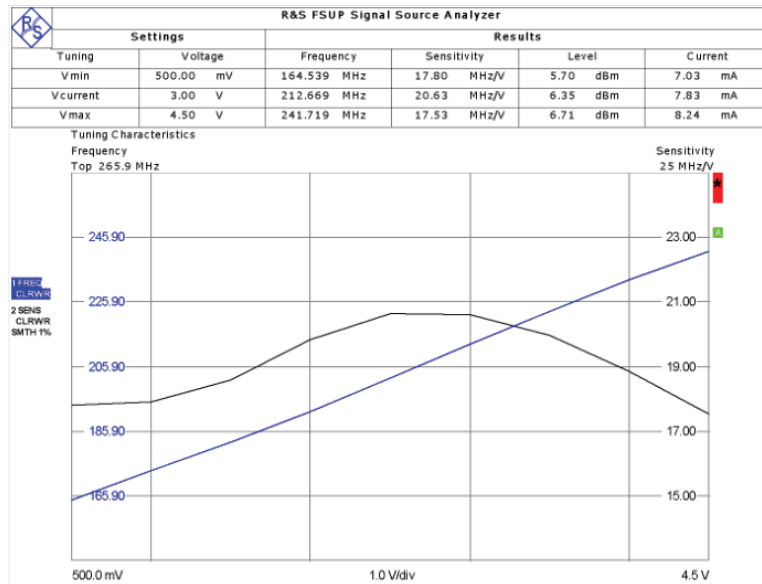
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		170		235	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	170-235MHz	6.2	6.6	7.0	dBm
Supply Voltage (Vcc)			5.0		V
Supply Current (Icc)			12	15	mA
Phase Noise :					
	@10kHz Offset:	-120	-119	-117	dBc/Hz
	@100kHz Offset:	-141	-140	-138	dBc/Hz
Average Tuning Sensitivity	170-235MHz		19.5		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-4.7		-3.3	dBc
OperatingTemperature Range		-55		+85	$^\circ\text{C}$
Tune Input Capacitance			100		PF
Output Impedance -			50		Ω
Package Type	SK625A(9.52X9.52X3.1mm)				

Comments

X Indicates parameter to be tested 100% in production

V TUNE	TUNING SENS. (MHz/V)	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
		-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
0.5	17.8	165.9	164.7	164.1	5.1	6.2	6.3	-2.7	-3.3	-3.5
1.0	17.9	175.4	173.7	172.6	5.3	6.3	6.4	-3.0	-3.6	-3.9
1.5	18.5	184.8	182.7	181.3	5.5	6.5	6.6	-3.3	-4.0	-4.3
2.0	19.8	195.0	192.3	190.5	5.6	6.6	6.7	-3.3	-4.0	-4.5
2.5	20.6	205.1	202.6	200.5	5.6	6.6	6.7	-3.1	-3.9	-4.3
3.0	20.5	215.5	213.1	211.2	5.7	6.7	6.8	-3.4	-4.2	-4.7
3.5	19.9	225.3	223.1	221.6	5.8	6.8	6.9	-3.6	-4.5	-5.0
4.0	18.4	235.0	233.1	231.9	5.9	6.9	7.0	-3.7	-4.7	-5.4
4.5	17.5	244.1	242.0	240.8	5.9	6.9	7.0	-3.6	-4.7	-5.3

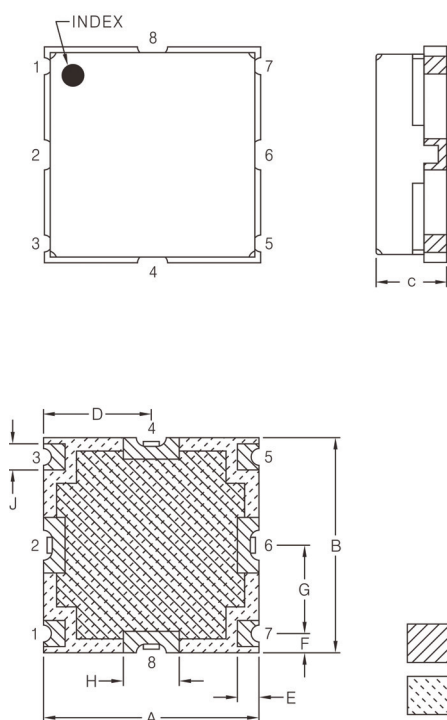


Case Style

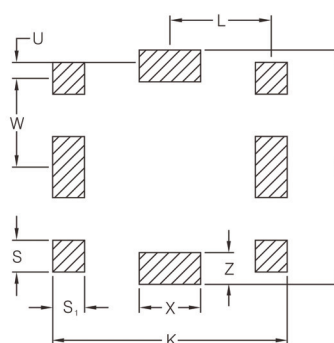
SK625

A

Outline Dimensions



PCB Land Pattern



SK625	A	B	C	D	E	F	G	H	J
MILLIMETERS	9.52	9.52	3.10	4.76	1.00	0.85	3.91	2.40	1.10
INCHES	0.375	0.375	0.122	0.187	0.039	0.033	0.154	0.094	0.043

SK625	K	L	S	S ₁	T	U	W	X	Z
MILLIMETERS	10.3	4.47	1.40	1.40	10.30	0.70	3.91	2.70	1.40
INCHES	0.406	0.176	0.055	0.055	0.406	0.028	0.154	0.106	0.055

PIN	1	2	3	4	5	6	7	8
APPLICATION	VCC	GND	NC	GND	VT	GND	RF OUT	GND

Notes:

1. Case material: Nickel-Silver alloy.
2. Base: Printed wiring laminate.

