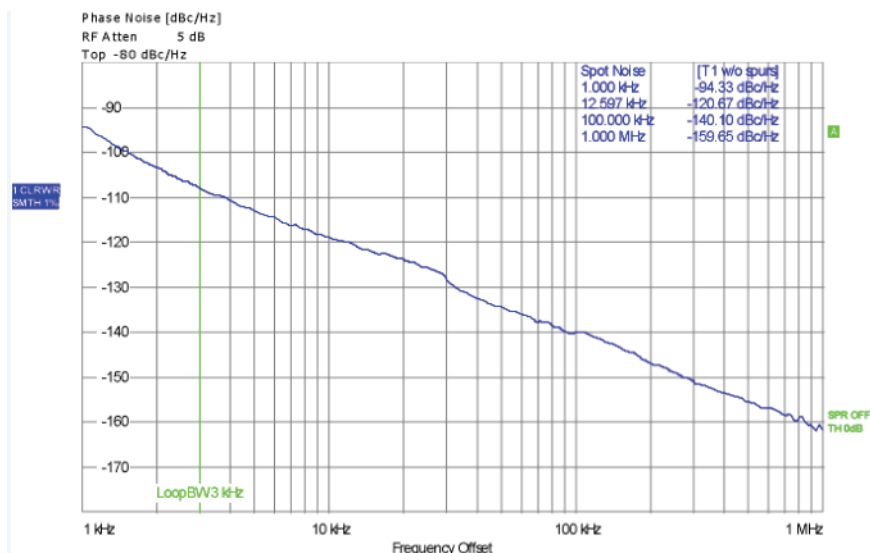
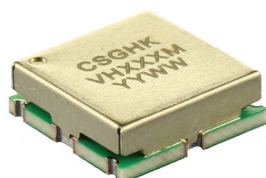


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 136-174MHz

VH155MT



FEATURES

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

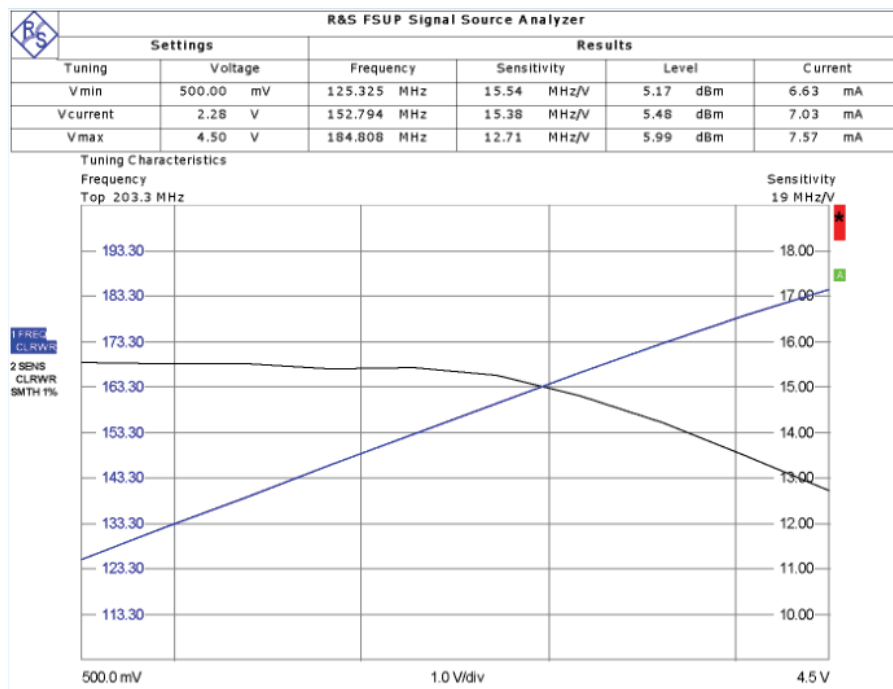
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		136		174	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	136-174MHz	5.0	5.5	6.5	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			13	15	mA
Phase Noise :					
	@12.5kHz Offset:		-119	-118	dBc/Hz
	@100kHz Offset:		-140	-138	dBc/Hz
Average Tuning Sensitivity	136-174MHz		14.5		MHz/V
Modulation deviation	@Freq:1kHz		± 70		KHz
Harmonic Outputs		-4.6		-3.6	dBc
OperatingTemperature		-40		+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

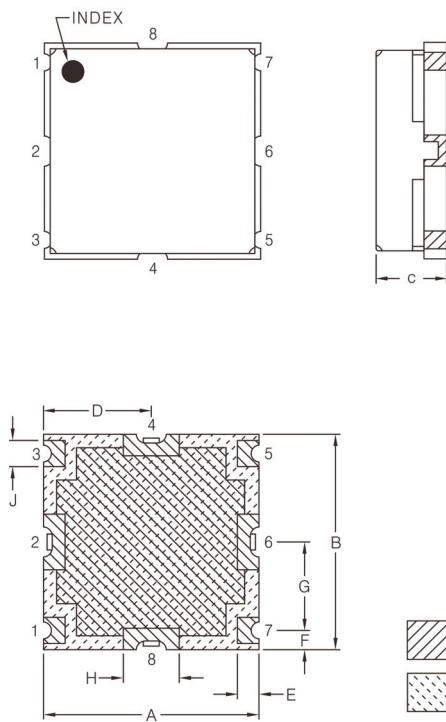
V TUNE	TUNING SENS. (MHz/V)	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
		-40℃	+25℃	+85℃	-40℃	+25℃	+85℃	-40℃	+25℃	+85℃
								2 ⁿ		
0.5	15.6	126.3	125.2	124.3	4.6	5.3	5.7	-3.1	-3.8	-4.1
1.0	15.5	134.3	133.0	132.0	4.7	5.5	5.8	-3.5	-4.3	-4.8
1.5	15.4	142.2	140.6	139.5	5.2	5.6	6.0	-3.1	-4.0	-4.6
2.0	15.4	150.0	148.2	146.8	5.2	5.7	5.9	-2.8	-3.7	-4.3
2.5	15.2	157.7	156.0	154.3	5.1	5.6	6.0	-2.9	-3.8	-4.3
3.0	14.9	165.2	163.7	162.0	5.2	6.0	6.0	-3.6	-4.4	-4.8
3.5	14.4	172.5	170.9	169.5	5.4	5.9	6.1	-3.8	-4.6	-5.2
4.0	13.5	179.4	178.2	176.6	5.2	5.9	6.1	-3.6	-4.6	-5.2
4.5	12.5	185.7	184.4	183.4	5.4	5.9	6.1	-3.3	-4.2	-4.8



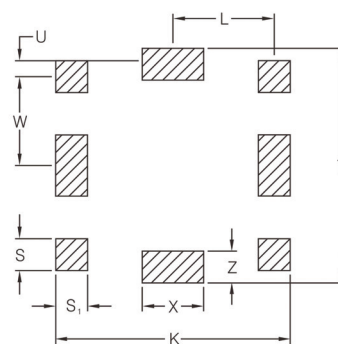
Case Style

SK625A

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.

