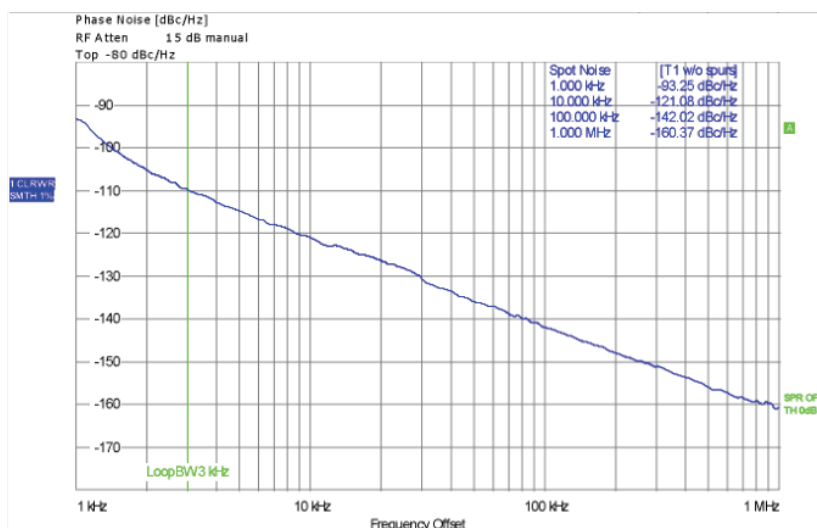
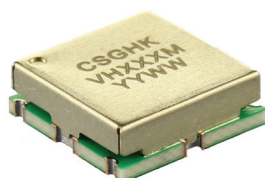


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 136-174MHz

VH155MR1



FEATURES

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

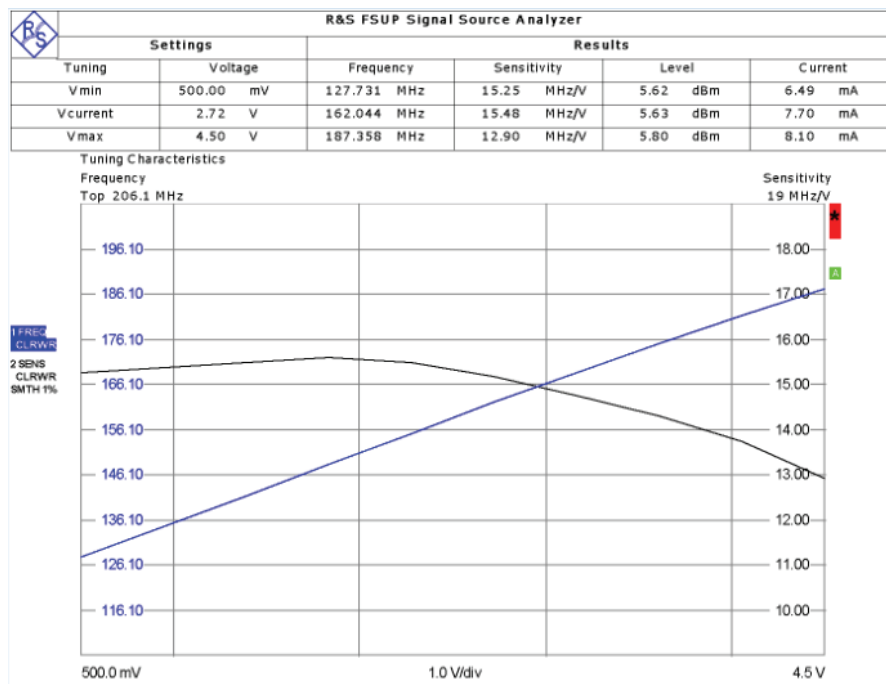
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +4.0\text{V}$ (unless otherwise stated)

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	4.5	5.0	6.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			11.4	14	mA
Phase Noise :					
	@10kHz Offset:	-121	-120	-119	dBc/Hz
	@100kHz Offset:		-141	-140	dBc/Hz
Average Tuning Sensitivity	136-174MHz		15.0		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-50		-22	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	15.3	129.2	127.8	127.1	5.3	5.5	5.7	-22	-22	-23
1.0	15.4	137.0	135.6	134.5	5.3	5.6	5.6	-26	-27	-27
1.5	15.4	144.8	143.4	142.0	5.4	5.6	5.6	-30	-31	-31
2.0	15.5	153.0	150.9	149.5	5.2	5.5	5.5	-34	-35	-35
2.5	15.3	160.5	158.7	157.3	5.1	5.5	5.4	-36	-39	-39
3.0	14.9	168.3	166.2	164.7	4.9	5.3	5.3	-39	-42	-42
3.5	14.5	175.4	173.6	172.5	4.9	5.2	5.1	-44	-45	-46
4.0	13.7	182.1	180.7	179.7	5.0	5.2	5.1	-45	-50	-50
4.5	12.9	189.3	187.5	186.4	5.1	5.3	5.2	-50	-56	-56

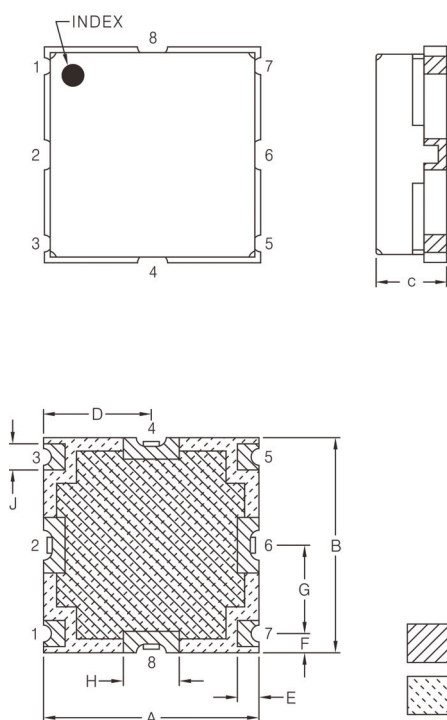


Case Style

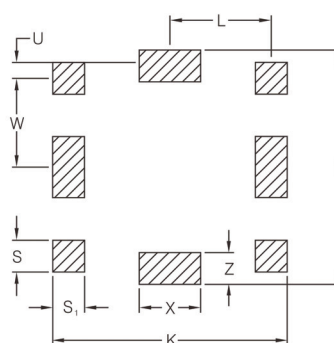
SK625

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.

