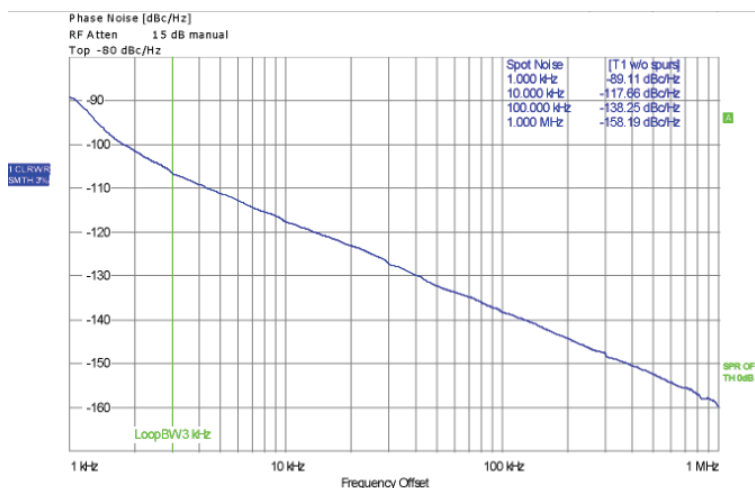
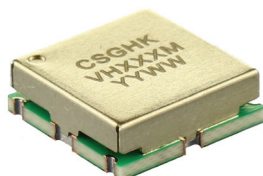


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 416-496MHz

VH496MR1



FEATURES

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

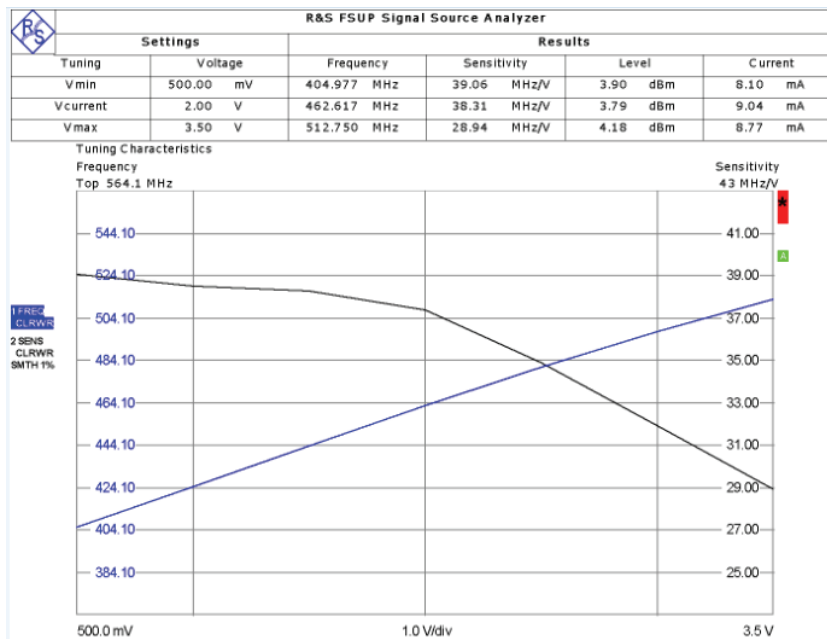
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +4.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Ranges		416		496	MHz
Tuning Voltage (V)		0.5		3.5	V
RF Output Power	416~496MHz	4.0	4.1	4.4	dBm
Supply Voltage (Vcc)			4.0		V
Supply Current (Icc)			14	16	mA
Phase Noise :					
	@10kHz Offset:		-117	-116	dBc/Hz
	@100kHz Offset:		-138	-137	dBc/Hz
Average Tuning Sensitivity	416~496MHz		35.6		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-56		-36	dBc
Operating Temperature 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°C	+25°C	+85°C	-55°C	+25°C	+85°C	-55°C	+25°C	+85°C
								2 ⁿ		
0.5	39.0	410.0	404.8	401.2	3.2	4.3	4.1	-34	-36	-38
1.0	38.4	430.0	424.4	420.8	3.4	4.0	3.9	-36	-41	-43
1.5	38.2	449.2	443.6	439.2	3.7	4.1	4.0	-40	-48	-49
2.0	37.3	468.4	462.8	457.6	3.6	4.1	4.3	-50	-54	-53
2.5	34.9	486.8	481.2	475.6	3.4	4.0	4.3	-52	-56	-55
3.0	31.9	503.2	498.0	492.8	3.4	4.2	4.2	-50	-42	-51
3.5	28.9	518.0	513.2	509.6	3.4	4.4	4.0	-47	-47	-48

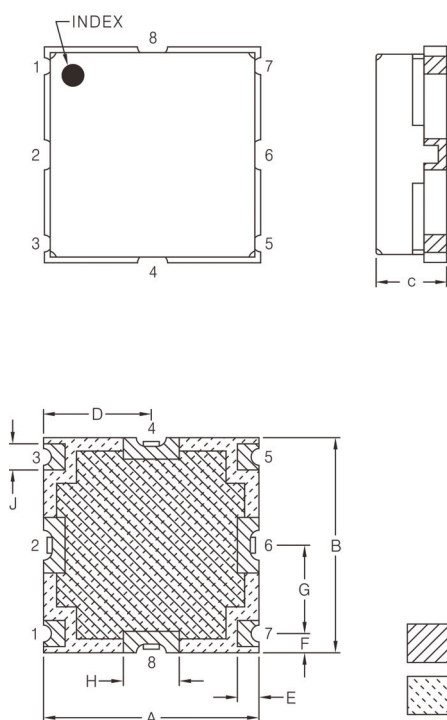


Case Style

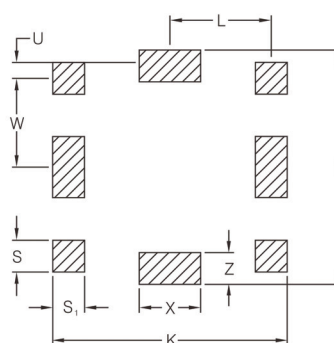
SK625

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.

