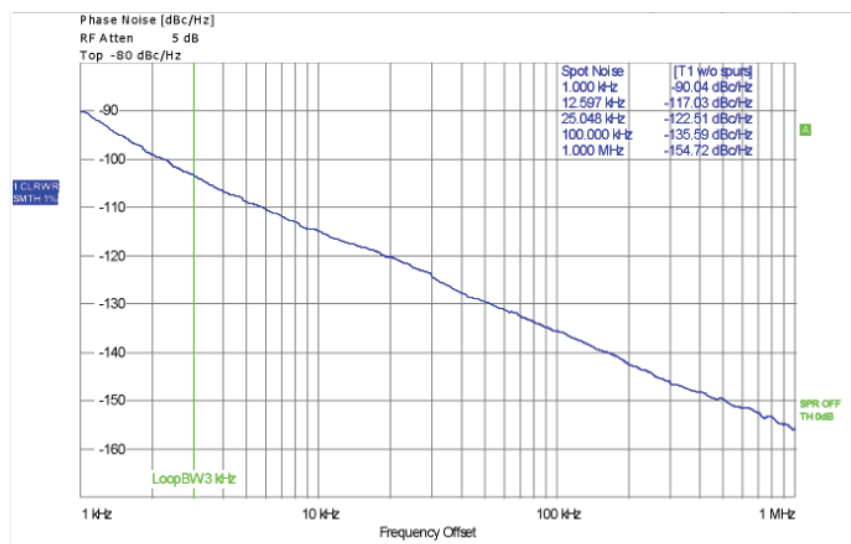
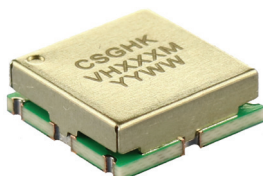


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 326-397MHz

VH361MR



FEATURES

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

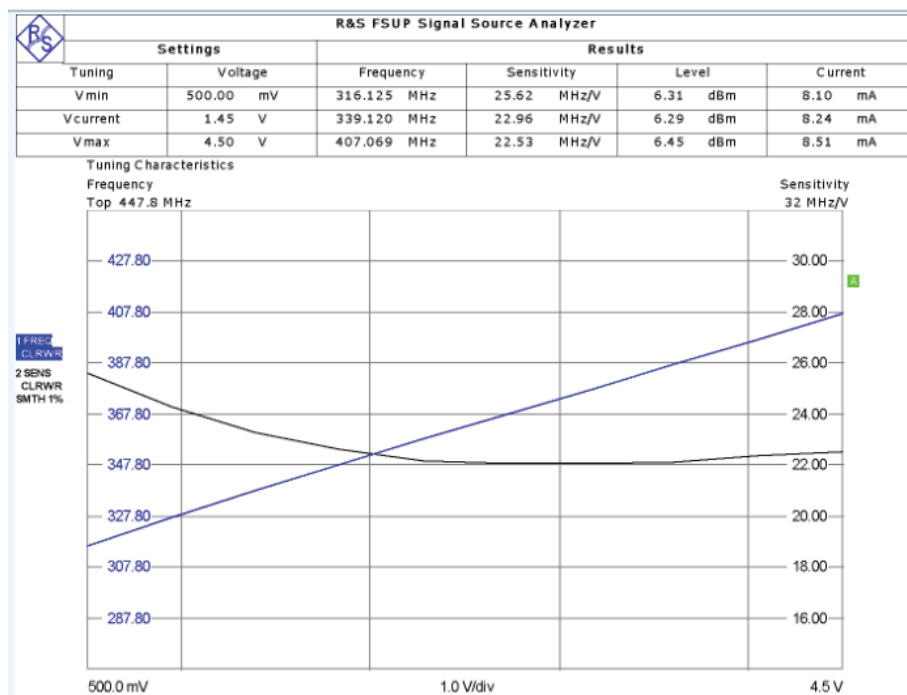
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		326		397	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	326-397MHz	5.4		7.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			8.2	10	mA
Phase Noise :					
	@12.5kHz Offset:		-117	-115	dBc/Hz
	@100kHz Offset:	-136	-135	-133	dBc/Hz
Average Tuning Sensitivity	326-371MHz		22.5		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-3.1		-6.8	dBc
OperatingTemperature Range		-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°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
								2 ⁿ		
0.5	25.5	319.0	315.8	314.3	5.3	6.0	5.8	-3.2	-3.9	-5.0
1.0	24.2	331.6	328.4	326.8	5.0	5.6	5.5	-3.4	-4.3	-5.4
1.5	23.0	343.1	340.0	338.1	4.7	5.4	5.4	-3.1	-3.8	-4.9
2.0	22.4	354.4	351.5	348.9	4.8	5.4	5.3	-3.0	-3.5	-4.9
2.5	22.1	365.8	362.6	359.6	5.2	5.9	5.7	-4.3	-4.9	-4.9
3.0	22.1	377.4	373.7	370.4	5.8	6.5	6.2	-5.1	-6.1	-6.8
3.5	22.2	388.8	384.5	381.3	5.8	6.7	6.5	-4.0	-5.3	-6.8
4.0	22.3	400.3	395.7	392.6	5.7	6.5	6.4	-4.0	-4.7	-6.2
4.5	22.5	411.6	407.5	404.1	5.7	6.3	6.1	-4.3	-5.2	-6.6

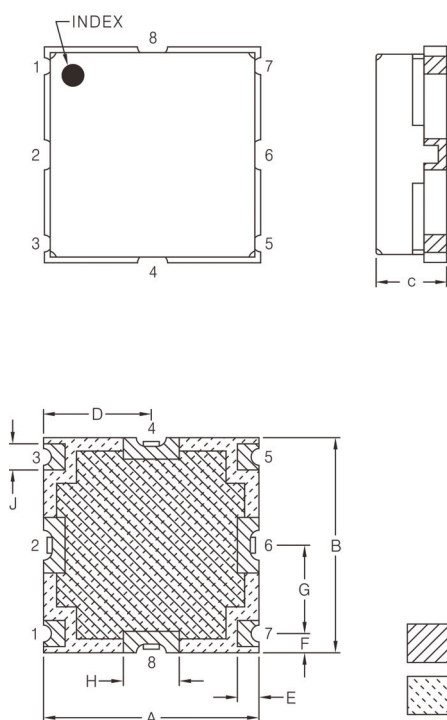


Case Style

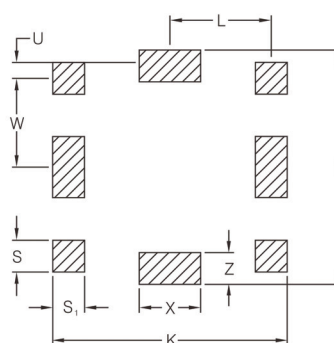
SK625

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.