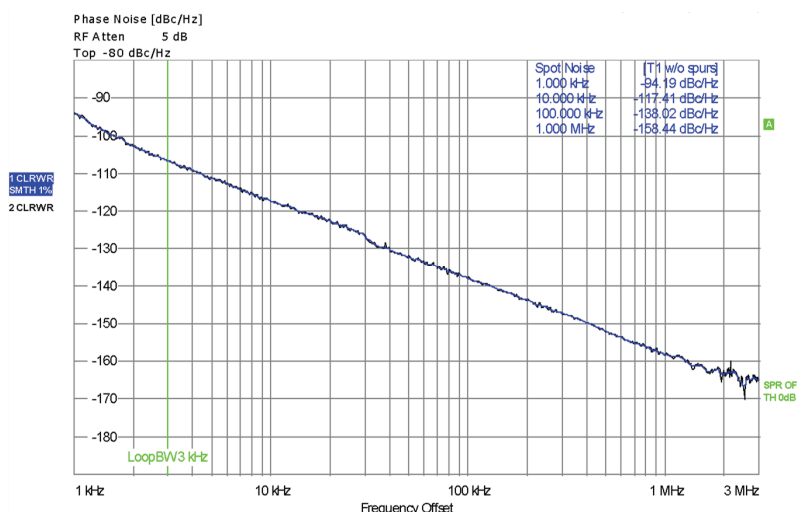
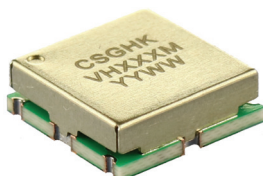


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 154--213MHz

V213MB



FEATURES

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

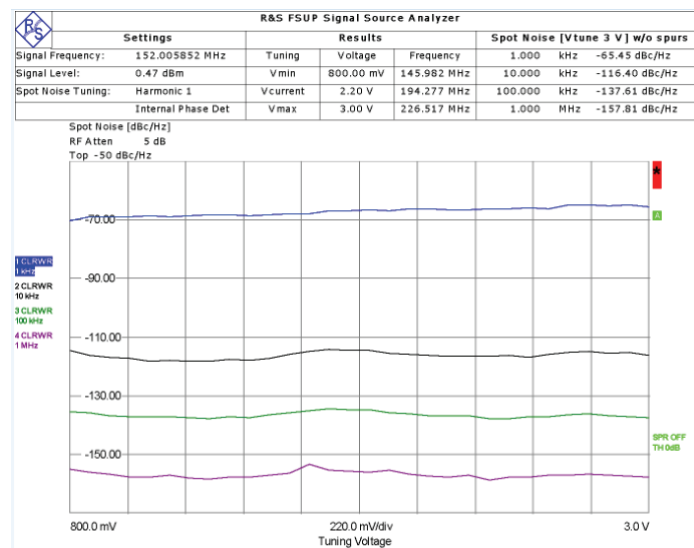
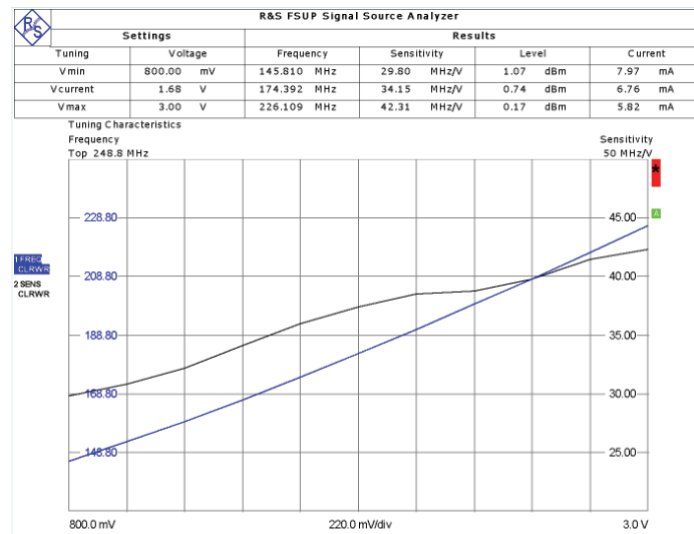
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +3.3\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		154		213	MHz
Tuning Voltage (V)		0.8		3	V
RF Output Power	154--213MHz	-1	0	1.5	dBm
Supply Voltage (Vcc)		3.0	3.3	3.5	V
Supply Current (Icc)			12	14	mA
Phase Noise :					
	@10kHz Offset:	-117	-115	-114	dBc/Hz
	@100kHz Offset:	-138	-136	-134	dBc/Hz
Average Tuning Sensitivity	154--213MHz		36		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-33		-24	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	TUNING	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
TUNE	SENS. (MHz/V)	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
0.8	29.8	149.4	146.2	143.7	0.4	1.0	1.2	-26	-27	-26
1.0	30.6	155.9	152.0	149.4	0.1	0.9	1.2	-26	-27	-26
1.5	35.3	173.0	168.8	164.9	0.0	0.9	1.2	-24	-24	-25
2.0	38.1	191.6	186.7	183.1	-0.5	0.5	1.1	-25	-26	-25
2.5	40.0	210.3	206.0	202.2	-0.7	0.3	0.7	-25	-25	-25
3.0	42.3	230.3	226.6	223.5	-0.7	-0.1	0.4	-31	-33	-30

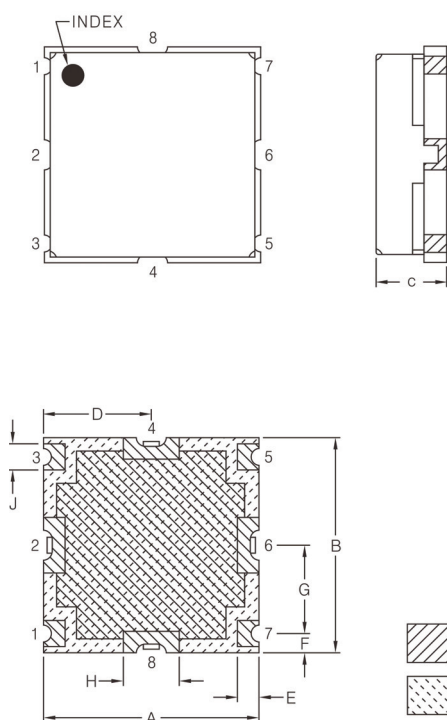


Case Style

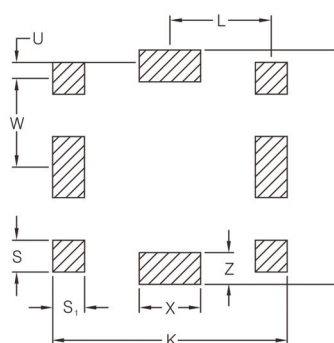
SK625

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	GND	GND	VT	GND	RF OUT	GND

Notes:

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