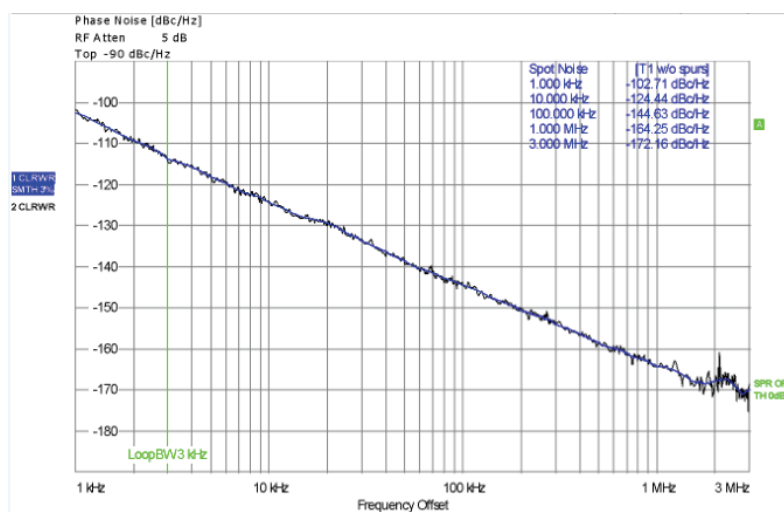
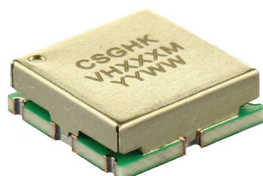


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency

69-71MHz

VF70M



FEATURES

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

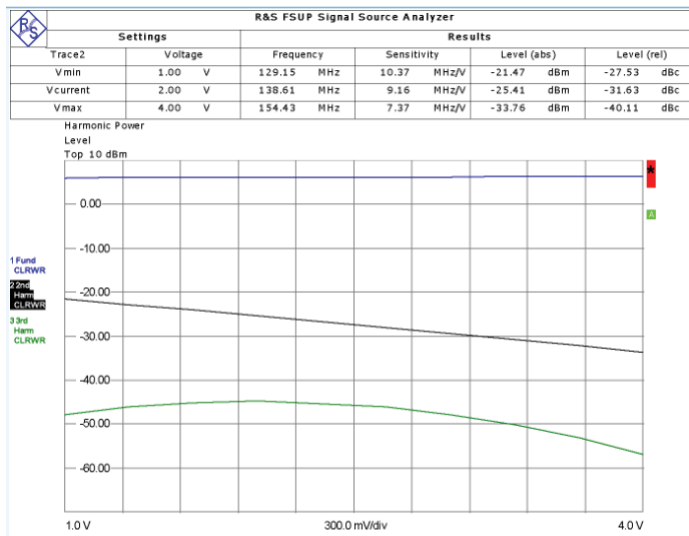
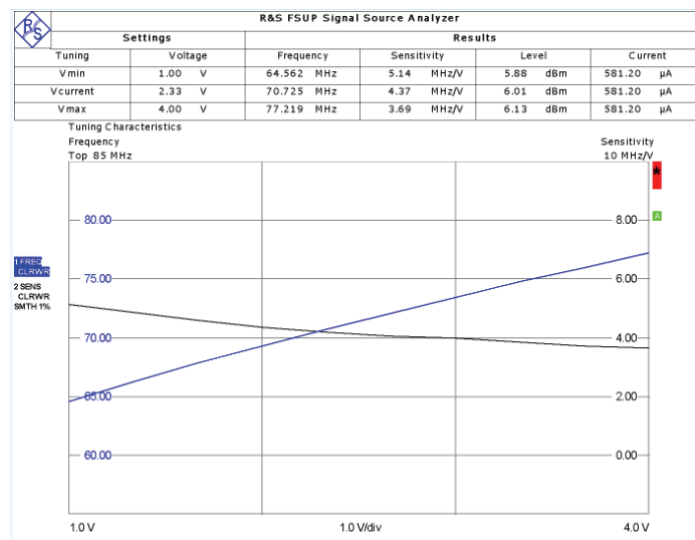
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		69	70	71	MHz
Tuning Voltage (V)		1		4	V
RF Output Power	70MHz	5.0	6.0		dBm
Supply Voltage (Vcc)		4.75	5	5.25	V
Supply Current (Icc)			13	16	mA
Phase Noise :					
	@10kHz Offset:		-124	-122	dBc/Hz
	@100kHz Offset:		-144	-142	dBc/Hz
Average Tuning Sensitivity	69--71MHz		4		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-38		-27	dBc
OperatingTemperature Range		-40		+85	°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℃
1.0	5.1	65.4	64.9	64.8	6.1	6.1	5.7	-27	-27	-27
1.5	4.7	67.8	67.3	67.3	6.2	6.1	5.8	-29	-29	-29
2.0	4.3	70.0	69.5	69.3	6.2	6.0	5.9	-30	-31	-31
2.5	4.1	72.1	71.6	71.3	6.1	6.0	5.9	-32	-32	-32
3.0	3.9	74.1	73.6	73.4	6.1	5.9	5.8	-34	-34	-34
3.5	3.8	76.1	75.5	75.2	6.0	5.9	5.8	-36	-36	-36
4.0	3.3	78.0	77.4	77.1	6.0	5.9	5.8	-37	-38	-37

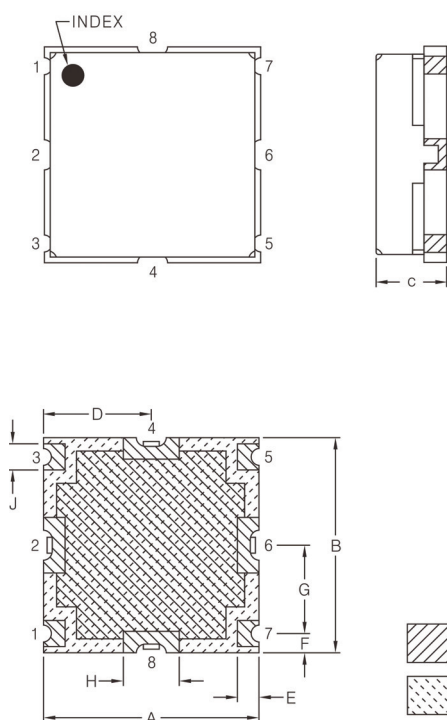


Case Style

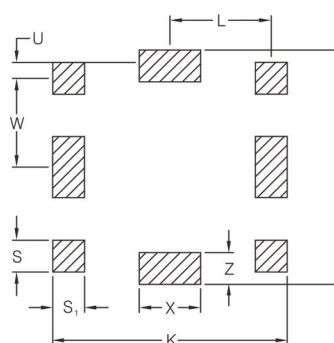
SK625

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.