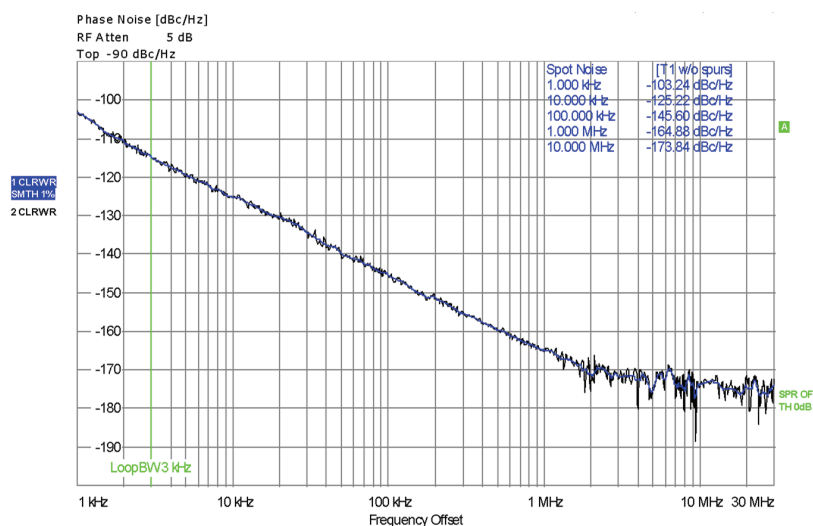
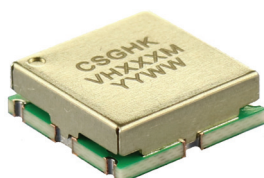


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency

124MHz

VH124MR1



FEATURES

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

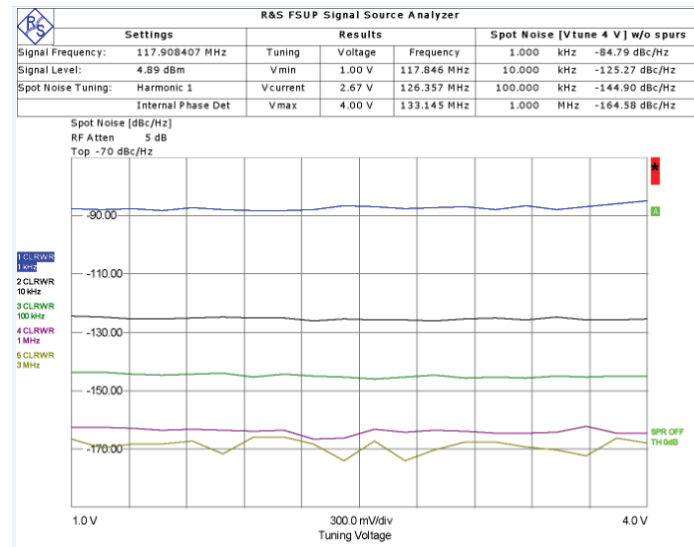
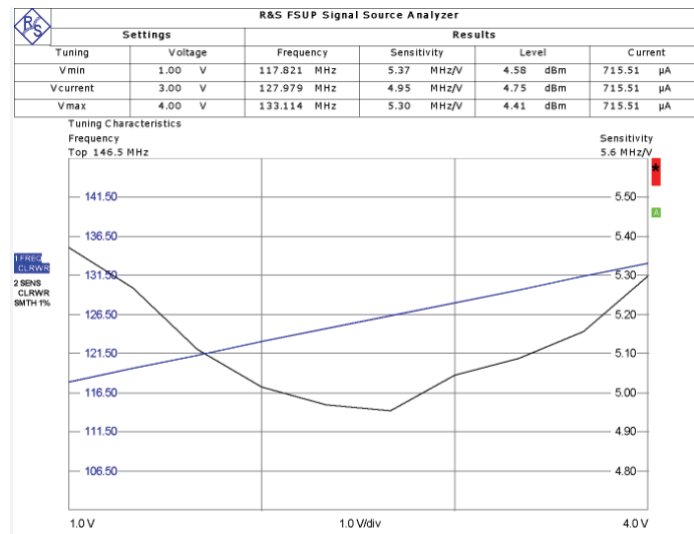
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs			124		MHz
Tuning Voltage (V)		1		4	V
RF Output Power	124MHz	4.5	5.0	5.4	dBm
Supply Voltage (Vcc)		4.75	5	5.25	V
Supply Current (Icc)			12	14	mA
Phase Noise :					
	@10kHz Offset:		-125	-123	dBc/Hz
	@100kHz Offset:		-145	-143	dBc/Hz
Average Tuning Sensitivity	117---133MHz		5		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-50		-40	dBc
OperatingTemperature Range		-55		+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)		
		-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
1.0	5.3	118.6	117.8	117.2	5.2	5.1	4.8	-42	-40	-40
1.5	5.2	121.3	120.5	119.9	5.2	5.2	4.7	-45	-43	-42
2.0	5.0	123.9	123.1	122.5	5.3	5.2	4.7	-45	-44	-43
2.5	4.9	126.3	125.6	124.9	5.4	5.2	4.8	-46	-46	-45
3.0	5.0	128.7	128.3	127.4	5.4	5.0	4.7	-46	-47	-46
3.5	5.1	131.2	130.6	129.9	5.3	5.0	4.5	-49	-48	-48
4.0	5.2	135.0	133.3	132.5	5.2	4.8	4.5	-50	-50	-49

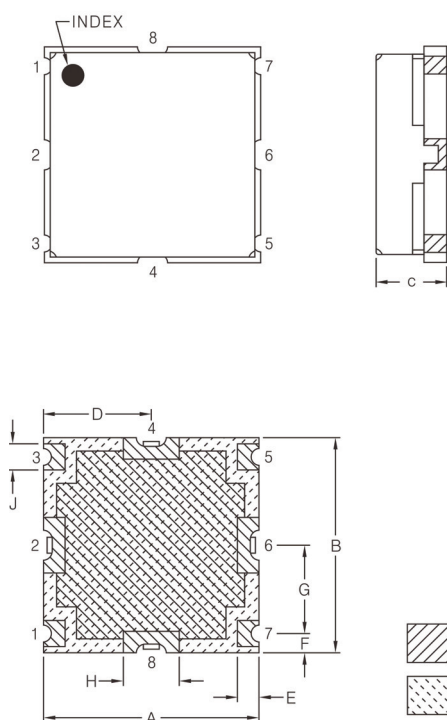


Case Style

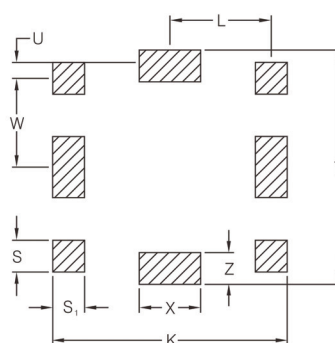
SK625

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.