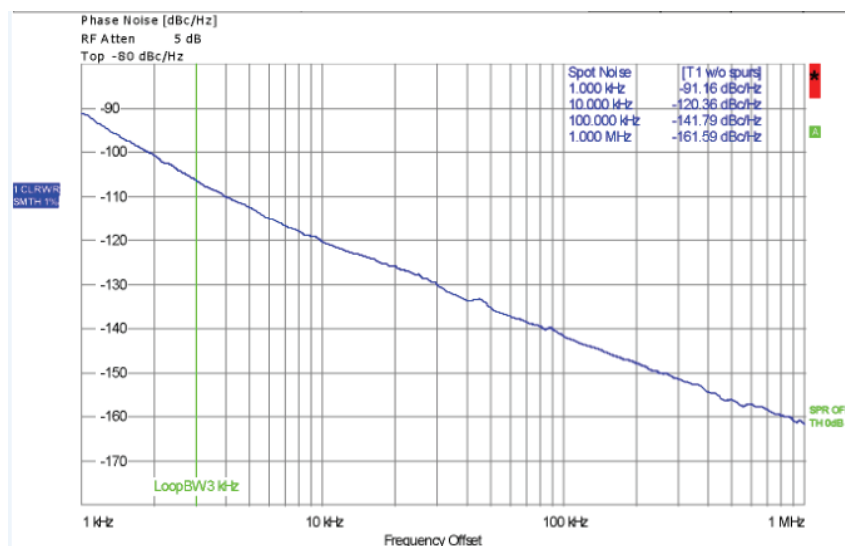
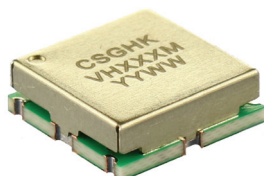


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 144MHz

VH144MR



FEATURES

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

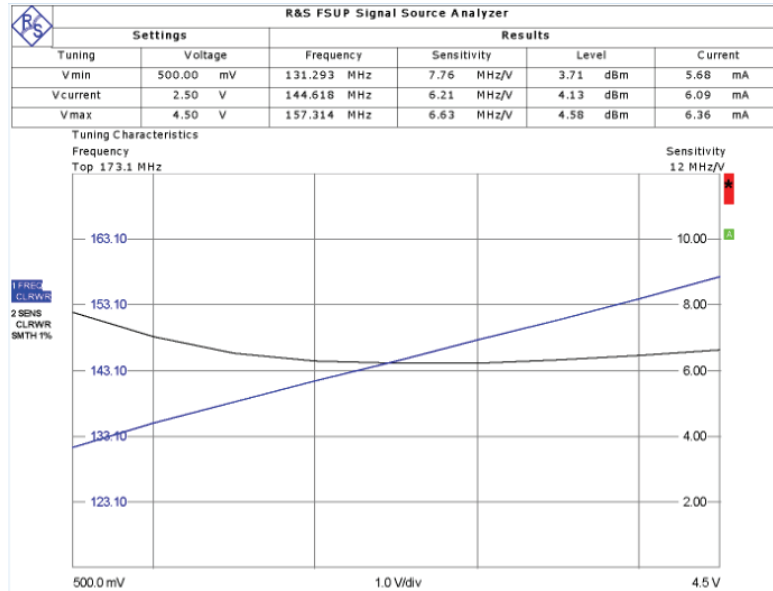
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		130	144	157	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	144MHz		4.8	5.1	dBm
Supply Voltage (Vcc)			5.0		V
Supply Current (Icc)			11	14	mA
Phase Noise :					
	@10kHz Offset:	-122	-120		dBc/Hz
	@100kHz Offset:	-142	-141		dBc/Hz
Average Tuning Sensitivity	130~157MHz		6.4		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-6.2		-5.8	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 TUNE	TUNING SENS. (MHz/V)	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
		-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
0.5	7.6	133.0	131.6	130.7	3.0	4.3	4.6	-4.2	-6.1	-7.1
1.0	6.9	136.7	135.3	134.4	3.2	4.5	4.7	-4.2	-6.2	-7.4
1.5	6.4	139.8	138.5	137.6	3.3	4.5	4.8	-4.2	-6.1	-7.4
2.0	6.2	143.5	141.7	140.8	3.4	4.6	5.0	-4.2	-6.1	-7.3
2.5	6.1	146.3	144.8	144.0	3.5	4.8	5.1	-4.2	-6.0	-7.3
3.0	6.2	149.4	148.1	146.7	3.6	4.8	5.2	-4.2	-6.0	-7.2
3.5	6.3	152.6	151.3	150.3	3.7	4.9	5.2	-4.2	-5.8	-7.1
4.0	6.4	155.8	154.5	153.1	3.7	5.0	5.3	-4.2	-5.8	-7.1
4.5	6.5	159.0	157.6	156.3	3.9	5.0	5.4	-4.2	-5.8	-7.1

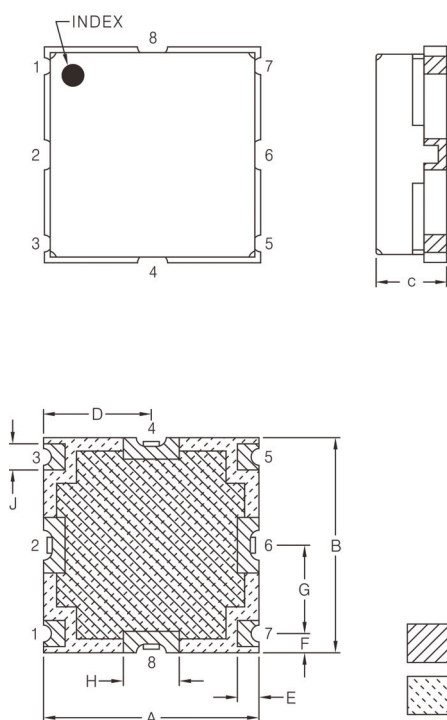


Case Style

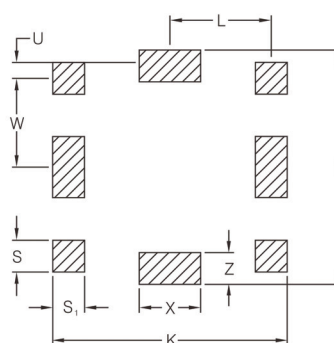
SK625

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.

