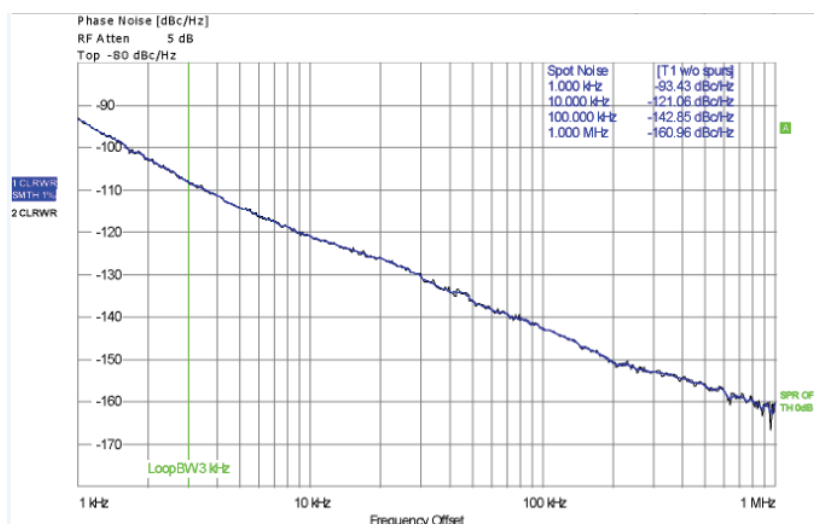
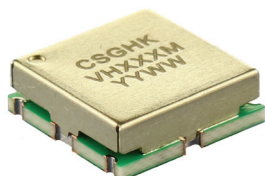


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 140MHz

VH140MT



FEATURES

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

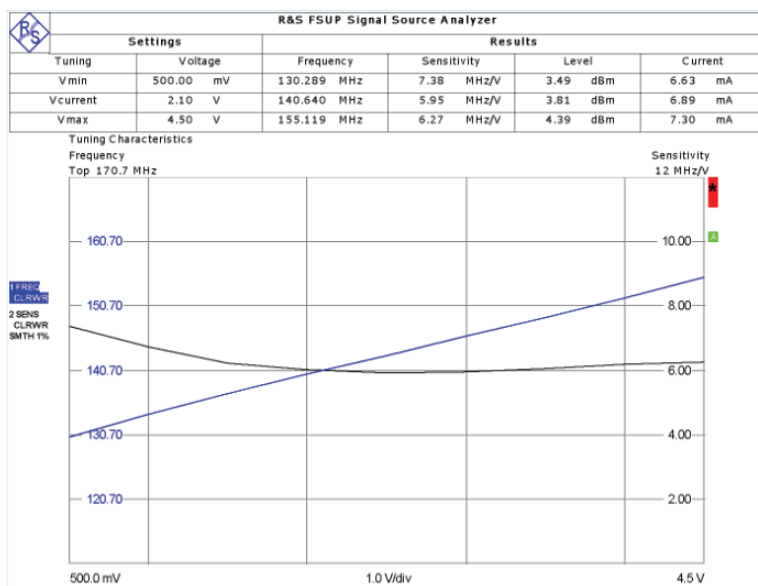
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		130	140	155	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	140MHz		4.8	5.1	dBm
Supply Voltage (Vcc)			5.0		V
Supply Current (Icc)			11	14	mA
Phase Noise :					
	@10kHz Offset:	-122	-121		dBc/Hz
	@100kHz Offset:	-143	-141		dBc/Hz
Average Tuning Sensitivity	130-155MHz		6.2		MHz/V
Modulation deviation	@Freq:1kHz Ampl:500mV		± 70		KHz
Harmonic Outputs		-5.7		-5.5	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℃
								2 ⁿ		
0.5	7.3	131.4	130.3	129.5	3.3	4.5	4.9	-3.8	-5.5	-6.3
1.0	6.7	135.0	133.8	133.0	3.4	4.6	4.9	-3.8	-5.7	-6.6
1.5	6.2	138.2	137.0	136.2	3.6	4.7	5.0	-3.9	-5.7	-6.6
2.0	5.9	141.3	140.0	139.2	3.7	4.9	5.1	-3.9	-5.6	-6.6
2.5	5.9	144.3	143.0	142.2	3.8	5.0	5.3	-3.8	-5.6	-6.6
3.0	5.9	147.3	146.0	145.1	3.9	5.0	5.4	-3.8	-5.5	-6.5
3.5	6.0	150.3	149.0	148.0	4.0	5.1	5.4	-3.8	-5.5	-6.6
4.0	6.1	153.4	152.0	151.0	4.2	5.2	5.5	-3.8	-5.5	-6.5
4.5	6.2	156.7	155.3	154.1	4.3	5.3	5.6	-3.9	-5.5	-6.6

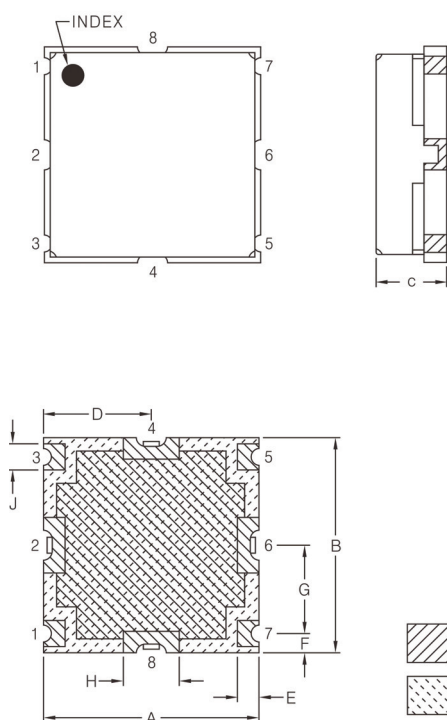


Case Style

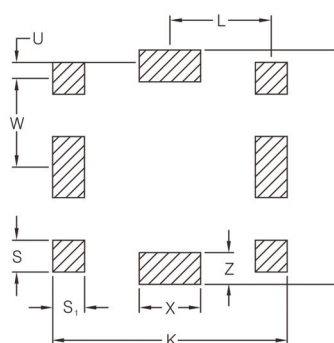
SK625

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.

