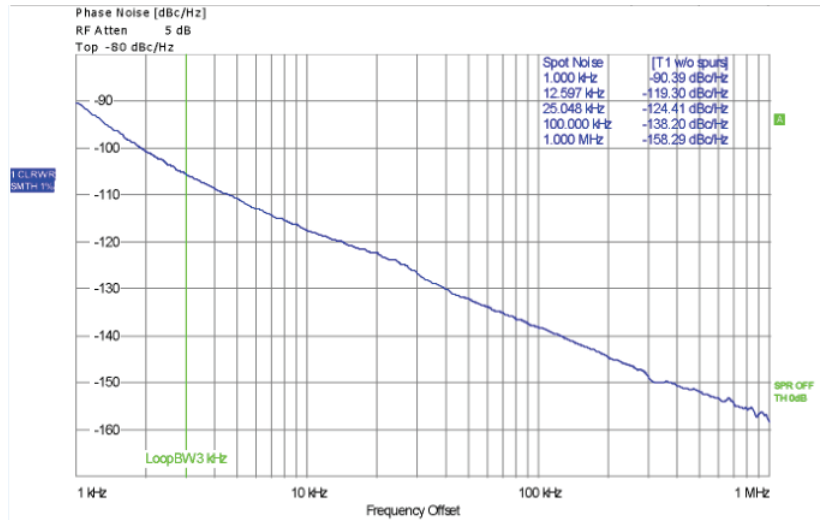
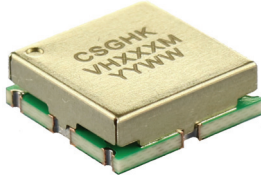


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 276-326MHz

VH301MR



FEATURES

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

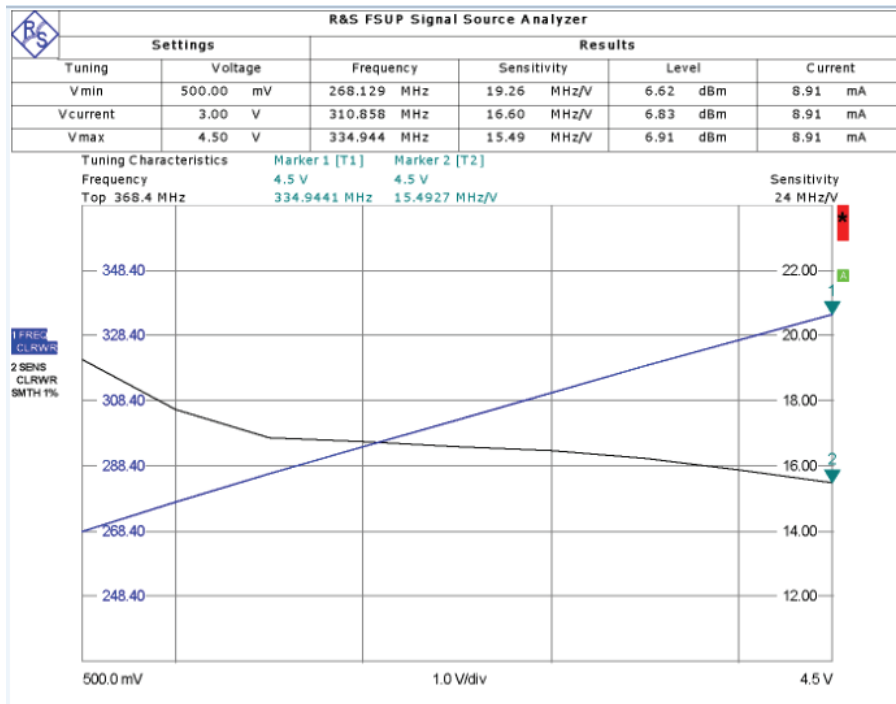
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		276		326	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	276-326MHz		6.5	7.5	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			9	10	mA
Phase Noise :					
	@12.5kHz Offset:		-119	-117	dBc/Hz
	@100kHz Offset:		-138	-137	dBc/Hz
Average Tuning Sensitivity	276-326MHz		16.8		MHz/V
Modulation deviation					KHz
Harmonic Outputs		-6.0	-4.5	-2.8	dBc
OperatingTemperature Range		-40		+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) 2 ⁿ		
		-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
0.5	19.3	270.3	268.4	266.0	5.8	5.9	5.8	-3.1	-2.8	-3.4
1.0	17.8	279.8	277.7	275.3	6.1	6.2	6.0	-2.8	-3.4	-3.7
1.5	16.8	288.6	286.1	283.8	6.4	6.6	6.3	-4.0	-4.4	-5.1
2.0	16.7	296.9	294.5	292.1	6.7	6.8	6.8	-4.1	-4.9	-6.0
2.5	16.6	305.2	302.7	300.2	6.6	6.8	6.9	-3.8	-4.7	-5.7
3.0	16.5	313.7	311.1	308.1	6.3	6.7	6.7	-3.3	-4.4	-5.1
3.5	16.3	322.0	319.3	316.4	6.2	6.6	6.5	-3.6	-4.5	-5.0
4.0	15.8	330.0	327.7	324.7	6.0	6.3	6.2	-3.8	-4.6	-5.4
4.5	15.3	338.4	335.4	332.8	5.8	6.2	6.0	-3.2	-4.1	-5.3

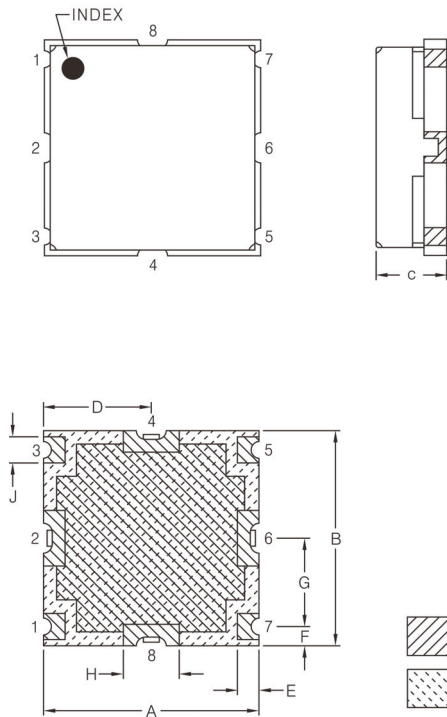


Case Style

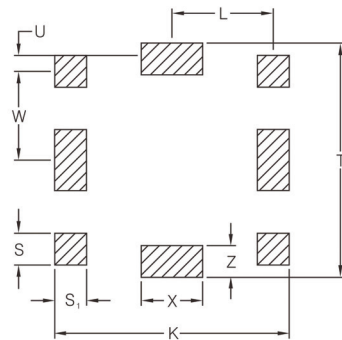
SK625

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.