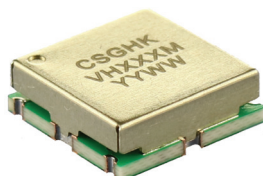




SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

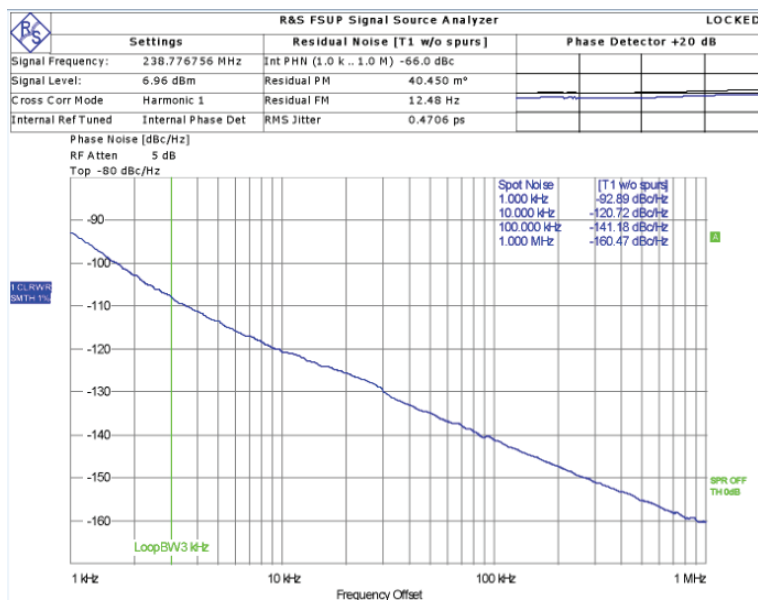
Frequency 221-248MHz

VH248MT



FEATURES

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



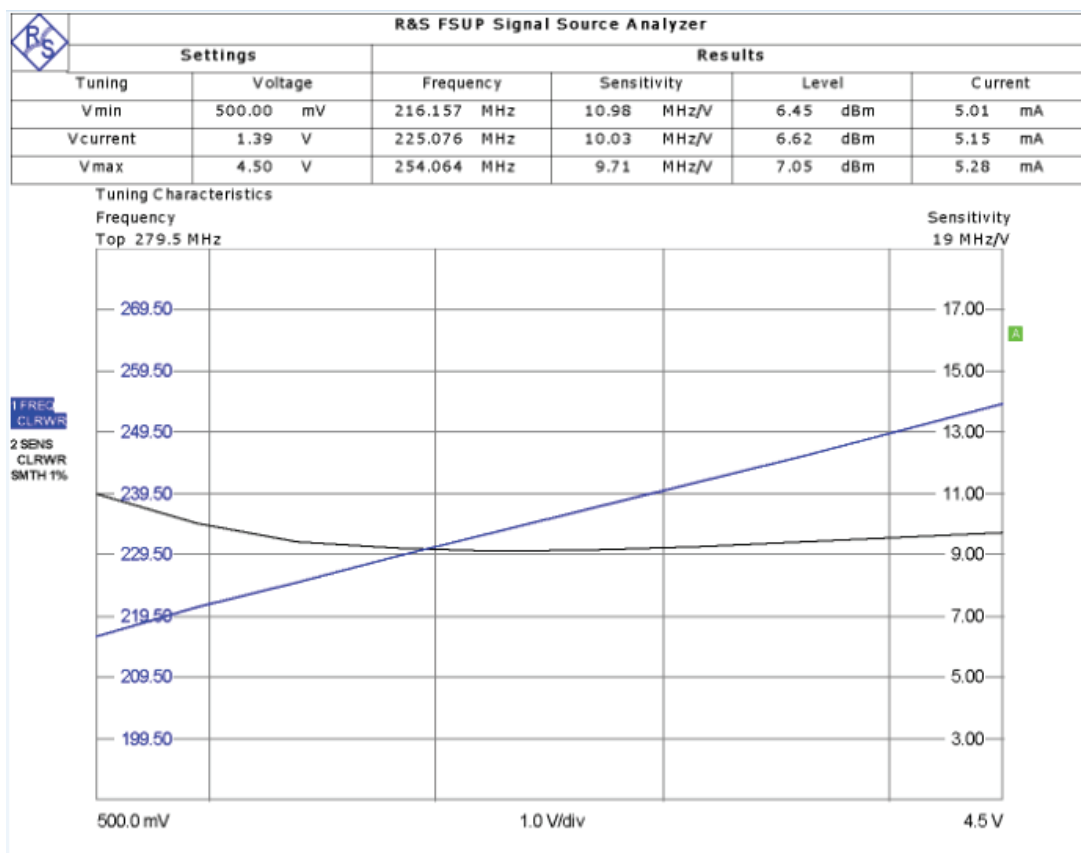
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +4.3\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		221		248	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	221~248MHz	5.0	6.5	8.0	dBm
Supply Voltage (Vcc)		4.15	4.3	5.0	V
Supply Current (Icc)			10	13	mA
Phase Noise :					
	@10kHz Offset:	-121	-120	-119	dBc/Hz
	@100kHz Offset:	-141	-140	-139	dBc/Hz
Average Tuning Sensitivity	221~248MHz		9.5		MHz/V
Modulation deviation	@Freq:1kHz Ampl:500mV				KHz
Harmonic Outputs		-2.8	-4	-4.5	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)		
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	-55°C	+25°C	+85°C
								2 ⁿ		
0.5	10.9	217.9	216.2	215.1	6.0	6.6	6.7	-2.8	-3.5	-3.8
1.0	10.1	223.2	221.6	220.4	6.1	6.7	6.7	-3.0	-3.8	-4.0
1.5	9.4	228.1	226.3	225.1	6.2	6.8	6.8	-3.2	-4.0	-4.4
2.0	9.2	232.7	230.9	229.7	6.2	6.8	6.8	-3.3	-4.0	-4.5
2.5	9.1	237.4	235.6	234.2	6.2	6.8	6.8	-3.2	-4.0	-4.5
3.0	9.3	242.1	240.2	238.8	6.2	6.8	6.8	-2.9	-3.9	-4.4
3.5	9.5	246.7	244.8	243.4	6.3	6.8	6.8	-2.7	-3.8	-4.2
4.0	9.6	251.5	249.6	248.1	6.3	6.9	6.9	-2.9	-3.8	-4.1
4.5	9.7	256.5	254.5	252.9	6.4	7.0	7.0	-3.2	-4.0	-4.3

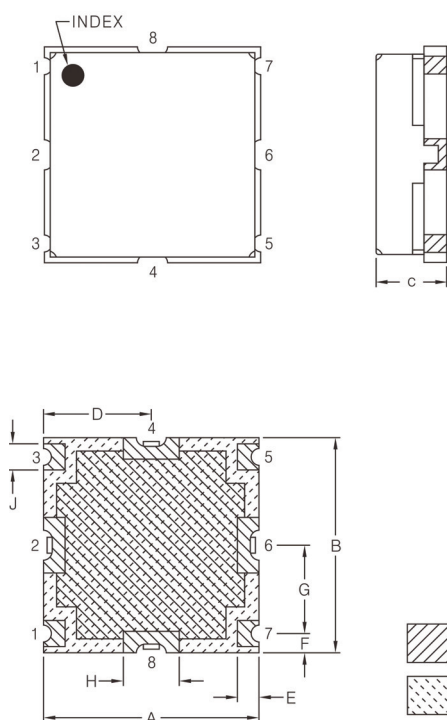


Case Style

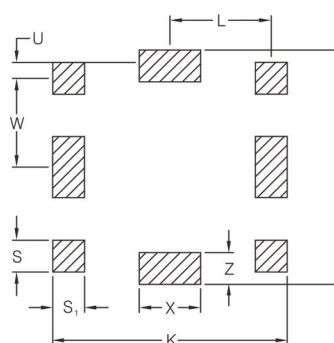
SK625

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.