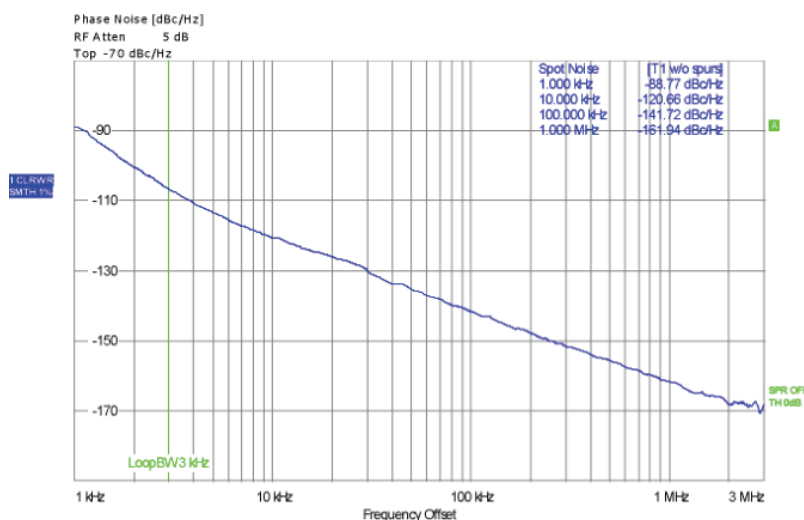
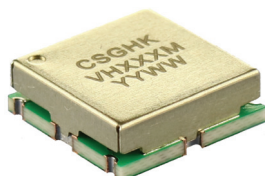


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 221-248MHz

S248MR



FEATURES

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

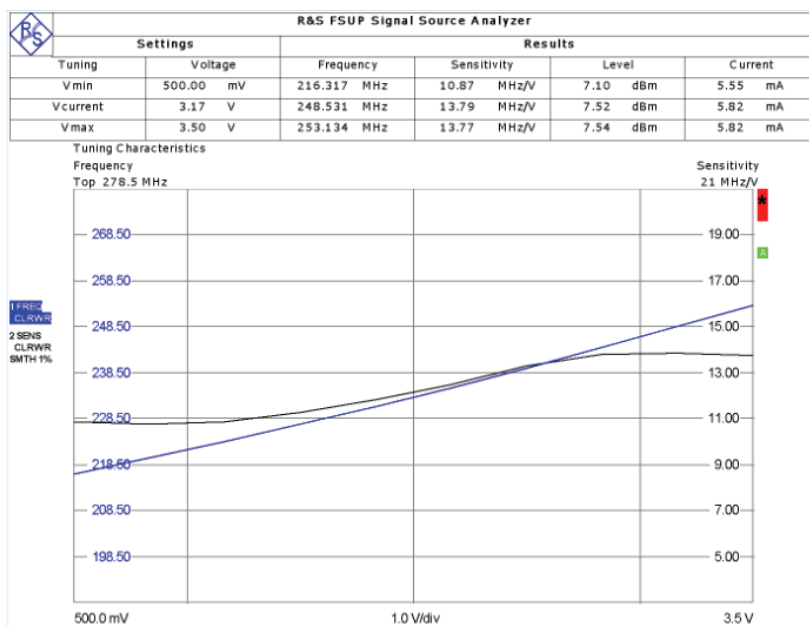
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +4.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		221		248	MHz
Tuning Voltage (V)		0.5		3.5	V
RF Output Power	221-248MHz	6.5	7.5	8.5	dBm
Supply Voltage (Vcc)		3.85	4.0	4.5	V
Supply Current (Icc)			5.8	10	mA
Phase Noise :					
	@10kHz Offset:	-121	-120	-119	dBc/Hz
	@100kHz Offset:	-142	-141	-140	dBc/Hz
Average Tuning Sensitivity	221-248MHz		12.3		MHz/V
Modulation deviation	@Freq:1kHz				KHz
Harmonic Outputs		-2.8	-4	-4.5	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	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
	SENS.							2 ⁿ		
	(MHz/V)	-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	-55°C	+25°C	+85°C
0.5	10.8	218.3	216.4	214.8	6.8	7.3	7.3	-3.0	-3.7	-4.3
1.0	10.9	224.2	222.3	220.4	6.8	7.3	7.3	-3.2	-3.8	-4.5
1.5	11.3	229.1	227.6	226.0	6.9	7.4	7.4	-3.2	-4.0	-4.6
2.0	12.2	235.0	233.2	231.6	6.9	7.5	7.5	-3.1	-4.0	-4.7
2.5	13.2	241.8	240.0	238.0	6.9	7.4	7.5	-2.8	-3.9	-4.5
3.0	13.7	248.7	246.8	244.8	7.0	7.5	7.5	-2.8	-3.7	-4.3
3.5	13.8	255.5	253.6	251.6	7.1	7.5	7.5	-3.1	-3.8	-4.5

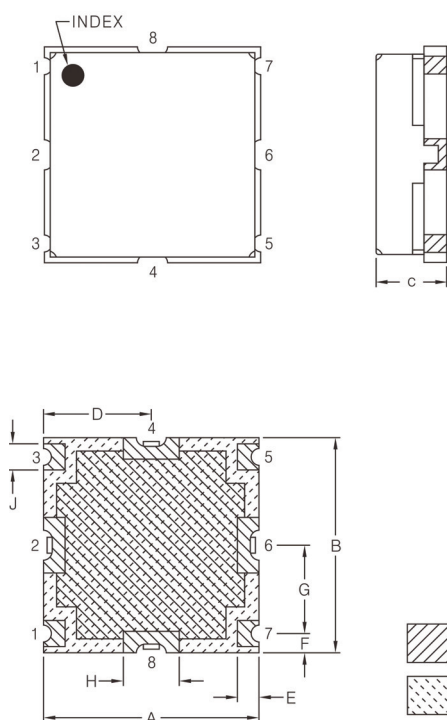


Case Style

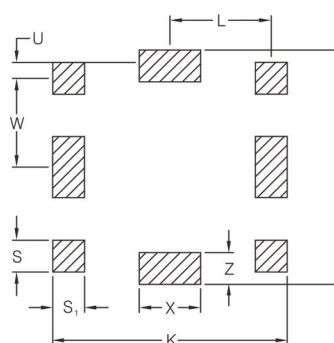
SK625

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.