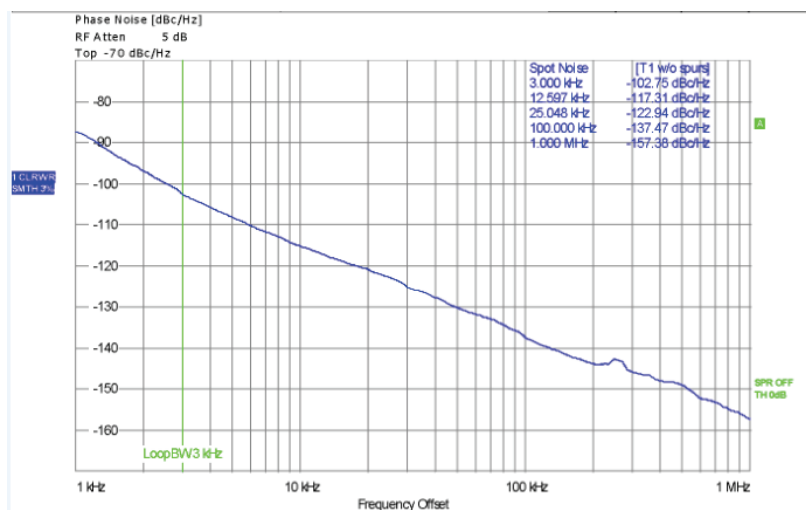
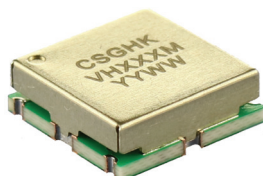


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 400-470MHz

VH435MT



FEATURES

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

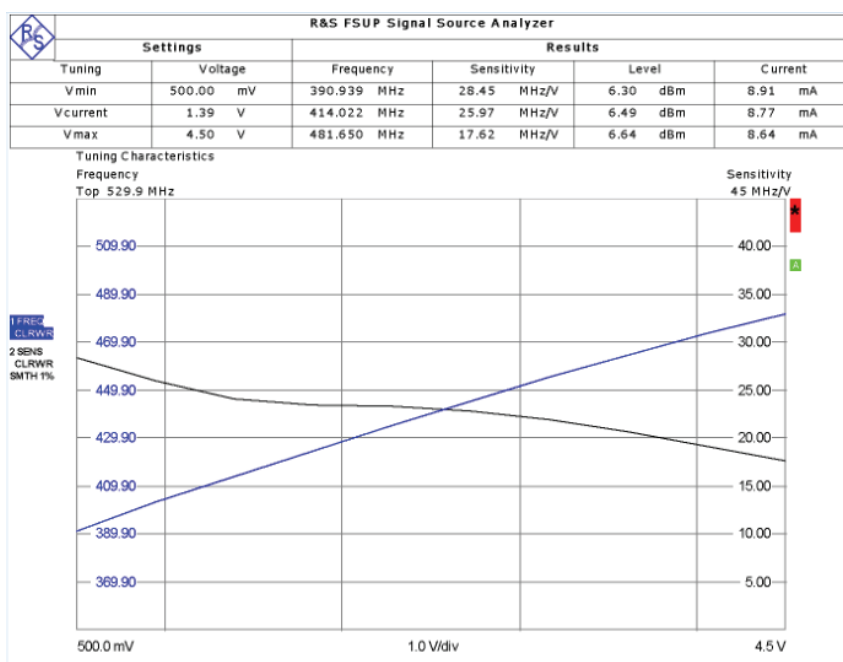
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Ranges		400		470	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	400–470MHz	6.0	6.5	7.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)		8	9	10	mA
Phase Noise :					
	@12.5kHz Offset:		-117	-115	dBc/Hz
	@100kHz Offset:		-137	-135	dBc/Hz
Average Tuning Sensitivity	400–470MHz		22.5		MHz/V
Modulation deviation	@Freq:1kHz Vp-p:500mv		± 70		KHz
Harmonic Outputs		-6.6		-4.6	dBc
Operating Temperature 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	28.4	395.2	391.0	387.7	4.8	6.2	6.3	-5.3	-6.2	-6.5
1.0	25.8	409.3	405.0	401.2	5.0	6.4	6.5	-5.7	-6.1	-6.3
1.5	23.8	422.1	417.1	413.2	5.1	6.5	6.4	-5.6	-5.7	-6.3
2.0	23.2	433.9	428.8	425.5	5.1	6.5	6.4	-5.2	-5.4	-6.6
2.5	23.0	445.7	440.6	437.5	5.0	6.4	6.3	-4.6	-5.3	-6.6
3.0	22.2	456.6	452.1	448.7	5.0	6.3	6.2	-4.6	-5.6	-6.5
3.5	20.9	467.5	463.0	459.4	4.9	6.3	6.3	-5.2	-6.1	-6.6
4.0	19.3	477.8	473.1	469.5	5.0	6.5	6.4	-5.6	-6.2	-6.6
4.5	17.6	487.1	482.6	478.4	5.1	6.6	6.5	-5.8	-6.0	-6.5

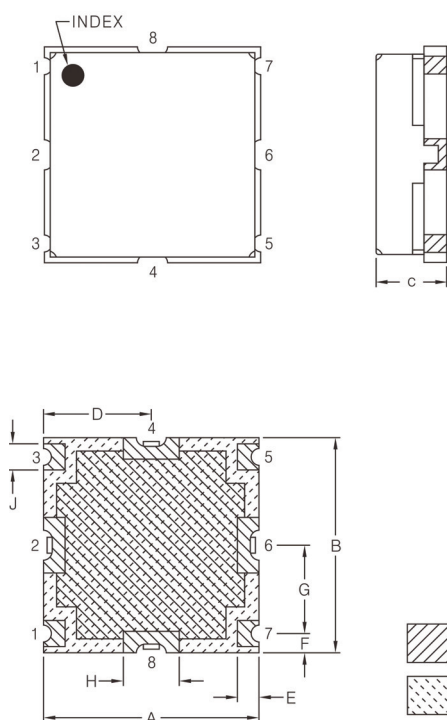


Case Style

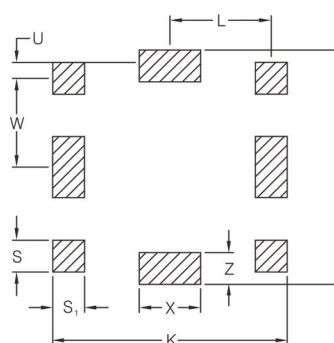
SK625

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.