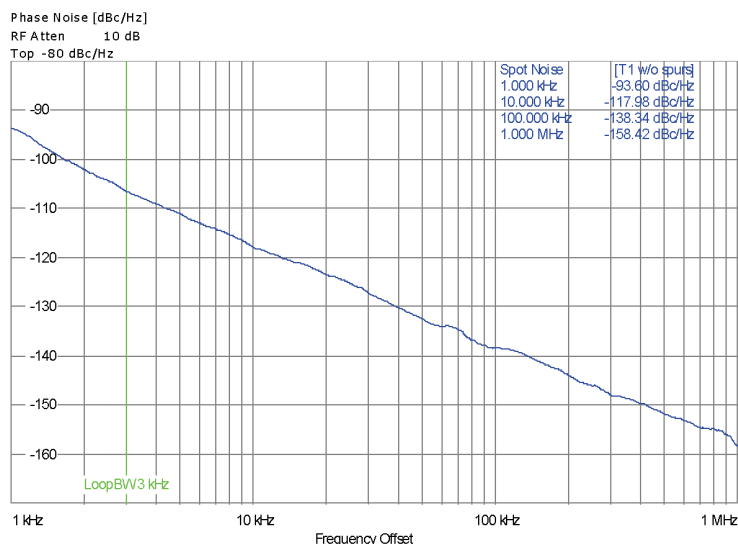
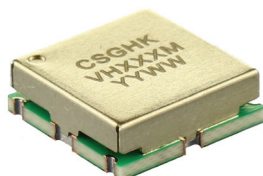


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 370-470MHz

VH420M



FEATURES

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

Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +3.3\text{V}$ (unless otherwise stated)

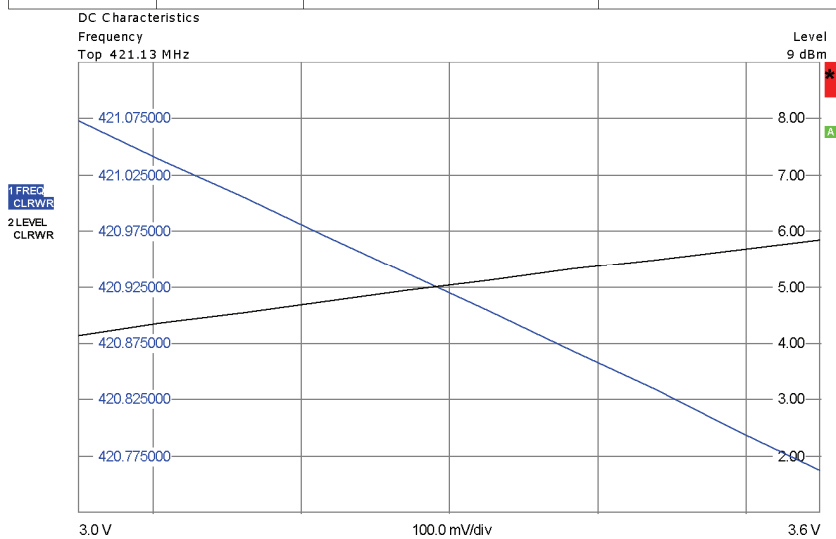
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		370		470	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	370-470MHz	3.0		7.0	dBm
Supply Voltage (Vcc)		3.05	3.3	3.55	V
Supply Current (Icc)			10	13	mA
Phase Noise :					
	@10kHz Offset:		-117	-114	dBc/Hz
	@100kHz Offset:		-138	-135	dBc/Hz
Average Tuning Sensitivity	370-470MHz		29.5		MHz/V
Harmonic Outputs			-5		dBc
OperatingTemperature Range		-40		+85	°C
Tune Input Capacitance			100		PF
Output Impedance -			50		Ω
Package Type	SK625(9.52X9.52X3.1mm)				

Comments

X Indicates parameter to be tested 100% in production

V	TUNING	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
TUNE	SENS.							2 ⁿ		
	(MHz/V)	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
0.5	31.3	368.0	363.3	360.0	3.7	4.7	5.2	-4.4	-6.9	-7.6
1.0	31.0	384.6	378.9	375.8	3.8	5.0	5.3	-4.4	-6.3	-7.9
1.5	31.6	400.4	394.9	391.3	4.2	5.1	5.2	-4.8	-6.6	-8.9
2.0	32.1	415.8	411.3	407.4	3.9	5.0	5.3	-4.2	-7.5	-9.7
2.5	31.2	432.0	427.3	423.3	4.1	5.0	5.3	-4.0	-7.3	-8.9
3.0	28.9	447.2	442.5	438.9	4.2	5.1	5.4	-5.1	-8.1	-8.8
3.5	25.2	460.4	456.1	452.3	4.6	5.4	5.7	-6.1	-8.5	-8.6
4.0	21.0	471.6	467.5	464.1	4.7	5.6	5.7	-6.6	-8.4	-8.0
4.5	16.5	480.6	477.1	473.9	4.8	5.6	5.7	-6.8	-7.6	-8.4

B6	R&S FSUP Signal Source Analyzer					
	Settings			Results		
	Supply	Voltage		Frequency		Level
	Vmin	3.05	V	421.074	MHz	4.13 dBm
	Vcurrent	3.30	V	420.920	MHz	5.04 dBm
	Vmax	3.55	V	420.762	MHz	5.84 dBm



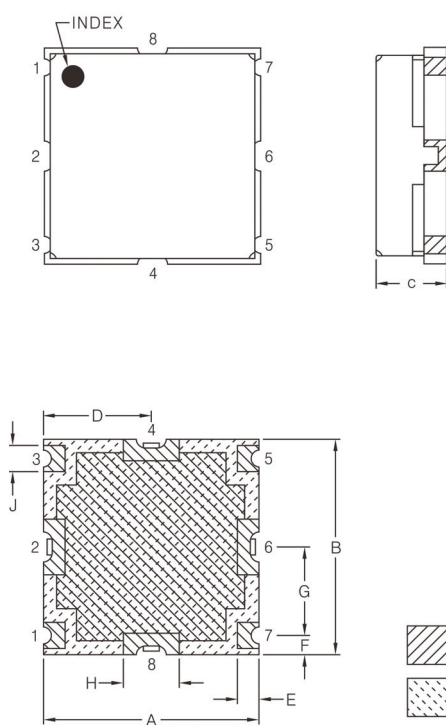
Measurement Aborted

Date: 12.NOV.2014 15:34:01

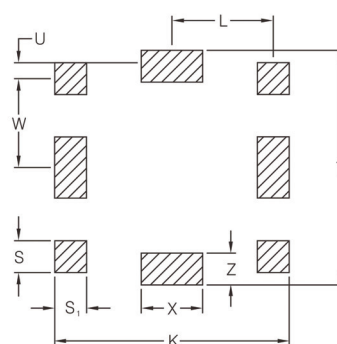
Case Style

SK625

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	VT	GND	NC	GND	RF OUT	GND

Notes:

1. Case material: Nickel-Silver alloy.
2. Base: Printed wiring laminate.