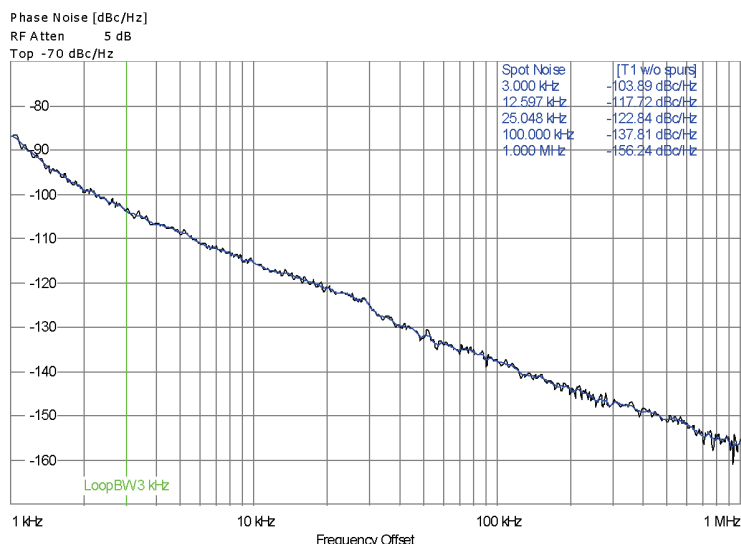
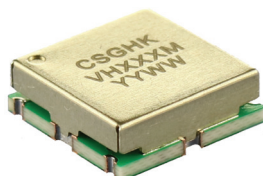


SURFACE MOUNT MODEL

VOLTAGE CONTROLLED OSCILLATOR

Frequency 420-527MHz

VH474MT



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)

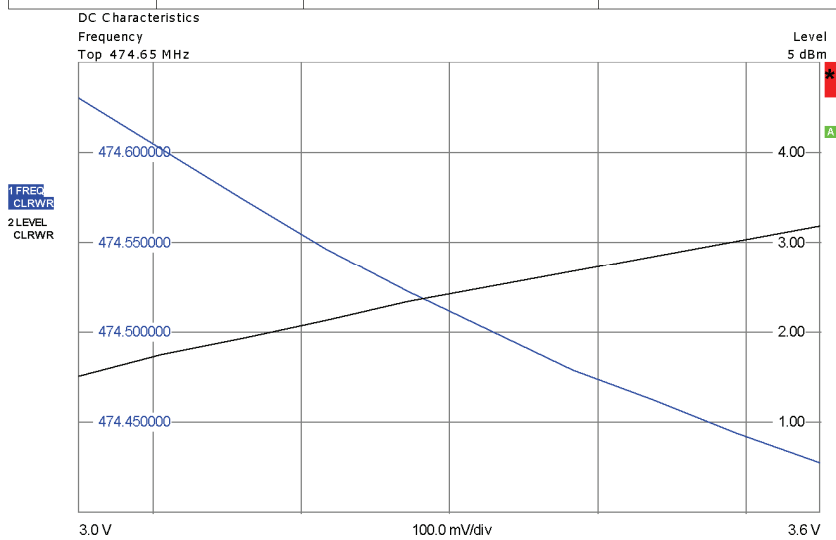
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Ranges		420		527	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	420-527MHz	0.0		4.0	dBm
Supply Voltage (Vcc)		3.05		3.55	V
Supply Current (Icc)			10	13	mA
Phase Noise :					
	@12.5kHz Offset:		-117	-114	dBc/Hz
	@100kHz Offset:		-137	-134	dBc/Hz
Average Tuning Sensitivity	420-527MHz		33.5		MHz/V
Modulation deviation	@Freq:1kHz Ampl:500mV		± 70		KHz
Harmonic Outputs			-5		dBc
Operating Temperature 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℃	+25℃	+85℃	-40℃	+25℃	+85℃	-40℃	+25℃	+85℃
0.5	36.2	415.8	409.8	406.2	0.5	2.4	2.0	-4.6	-7.0	-8.7
1.0	36.8	433.2	427.8	423.8	0.8	2.5	2.1	-4.5	-7.8	-9.7
1.5	37.2	451.4	445.8	441.4	0.8	2.5	2.3	-4.8	-8.6	-10.2
2.0	36.0	470.2	463.8	458.8	1.0	2.8	2.6	-5.6	-8.6	-9.1
2.5	35.2	488.2	481.1	476.8	1.3	3.0	2.6	-5.3	-7.1	-8.7
3.0	33.8	505.6	499.1	495.0	1.4	3.2	2.8	-5.9	-7.8	-9.8
3.5	30.0	521.0	514.9	511.2	1.6	3.3	2.8	-6.2	-7.5	-9.8
4.0	24.8	533.6	528.3	525.2	1.7	3.2	2.7	-6.0	-8.0	-10.4
4.5	18.9	544.2	538.9	536.0	1.7	3.1	2.7	-5.2	-8.4	-11.0

R&S FSUP Signal Source Analyzer					
Settings			Results		
Supply	Voltage		Frequency		Level
Vmin	3.05	V	474.630	MHz	1.51 dBm
Vcurrent	3.30	V	474.511	MHz	2.41 dBm
Vmax	3.55	V	474.428	MHz	3.18 dBm



Measurement Aborted

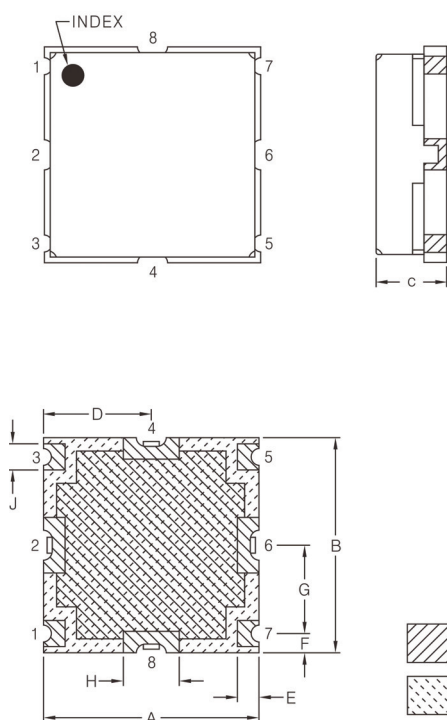
Date: 28.APR.2013 17:23:15

Case Style

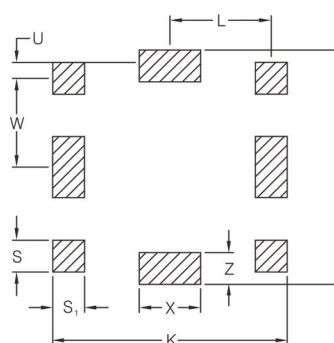
SK625

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	MD	GND	VT	GND	RF OUT	GND

Notes:

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