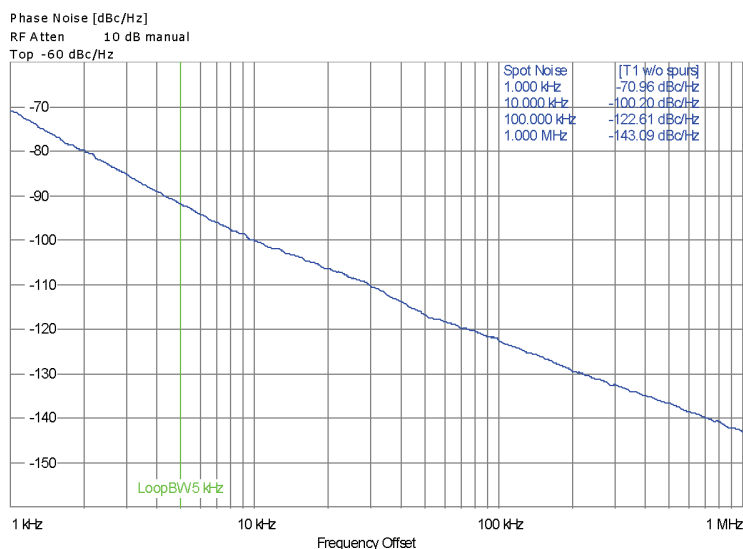
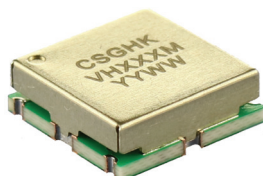


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency **1220-1510MHz**

S1510M



FEATURES

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

Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +4.5\text{V}$ (unless otherwise stated)

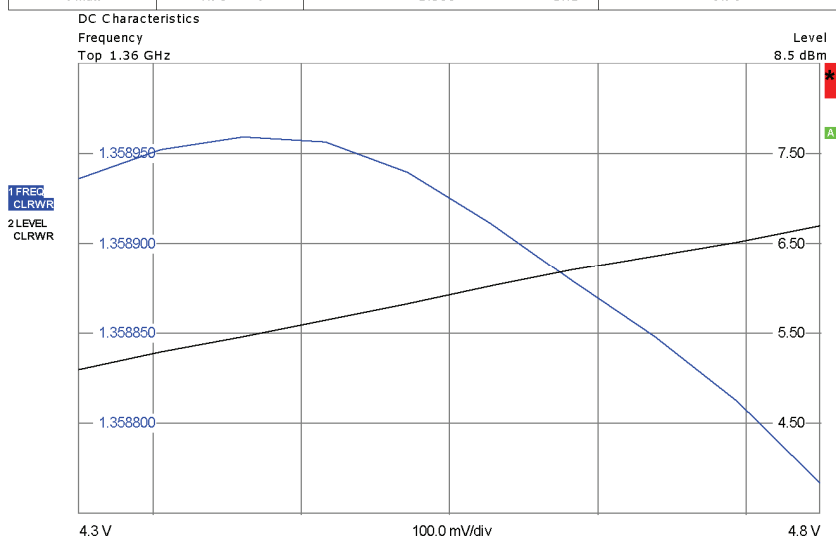
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1220		1510	MHz
Tuning Voltage (V)		1.0		4.2	V
RF Output Power	1220~1510MHz	5.0		9.0	dBm
Supply Voltage (Vcc)		4.25	4.5	4.75	V
Supply Current (Icc)			18	21	mA
Phase Noise :					
	@10kHz Offset:		-100	-97	dBc/Hz
	@100kHz Offset:		-121	-118	dBc/Hz
Average Tuning Sensitivity	1220~1510MHz		113.2		MHz/V
Harmonic Outputs			-15		dBc
OperatingTemperature Range		-55		+85	℃
Tune Input Capacitance			-		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		
		-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
1.0	109.6	1215.8	1196.8	1179.6	5.9	7.9	6.8	-11.0	-12.6	-14.4
1.5	111.8	1271.0	1251.6	1233.8	5.8	7.6	7.0	-11.5	-12.9	-16.4
2.0	114.0	1326.0	1307.2	1292.2	5.5	7.9	7.1	-11.3	-14.6	-17.5
2.5	116.6	1383.6	1367.6	1352.0	5.6	7.5	6.2	-13.1	-15.0	-17.5
3.0	114.9	1443.6	1428.4	1411.0	5.1	7.1	6.1	-13.3	-15.9	-19.8
3.5	110.2	1499.6	1482.8	1467.6	4.9	7.1	6.2	-14.8	-17.6	-20.4
4.0	106.8	1552.6	1536.4	1523.0	4.9	6.9	5.9	-17.9	-20.1	-23.1
4.2	107.8	1572.4	1558.0	1543.0	4.8	6.7	5.9	-19.8	-24.4	-23.7

BS	R&S FSUP Signal Source Analyzer					
	Settings			Results		
	Supply	Voltage		Frequency		Level
	Vmin	4.25	V	1.359	GHz	5.09 dBm
	Vcurrent	4.50	V	1.359	GHz	5.93 dBm
	Vmax	4.75	V	1.359	GHz	6.70 dBm



Measurement Aborted

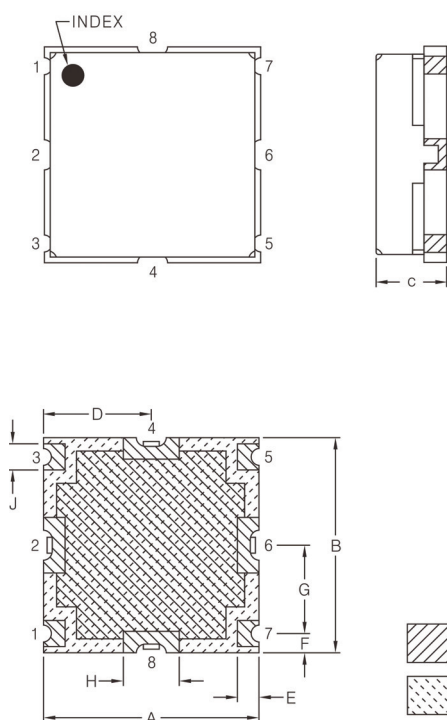
Date: 21.NOV.2014 14:10:13

Case Style

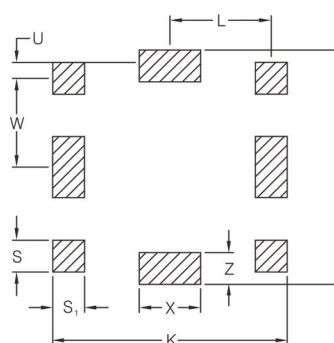
SK625

A

Outline Dimensions



PCB Land Pattern



SK625A	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

SK625A	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.