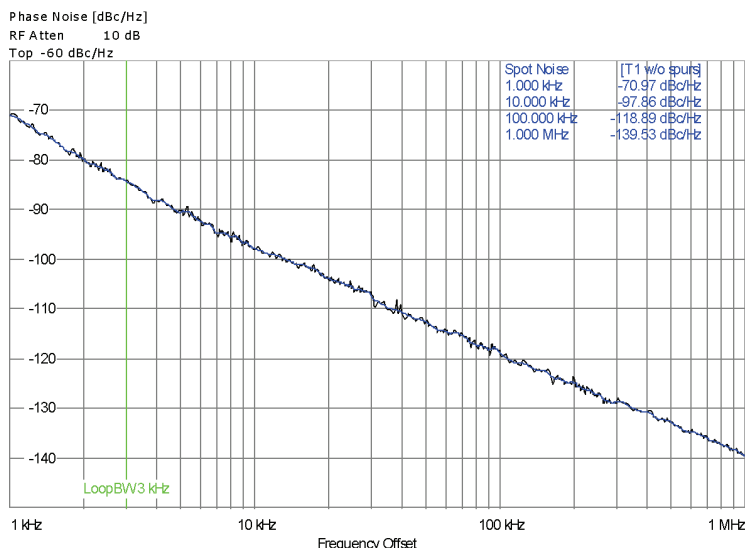
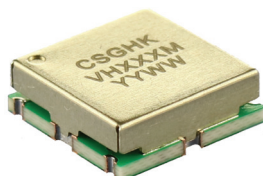


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 1100-1612MHz

VS1612M



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)

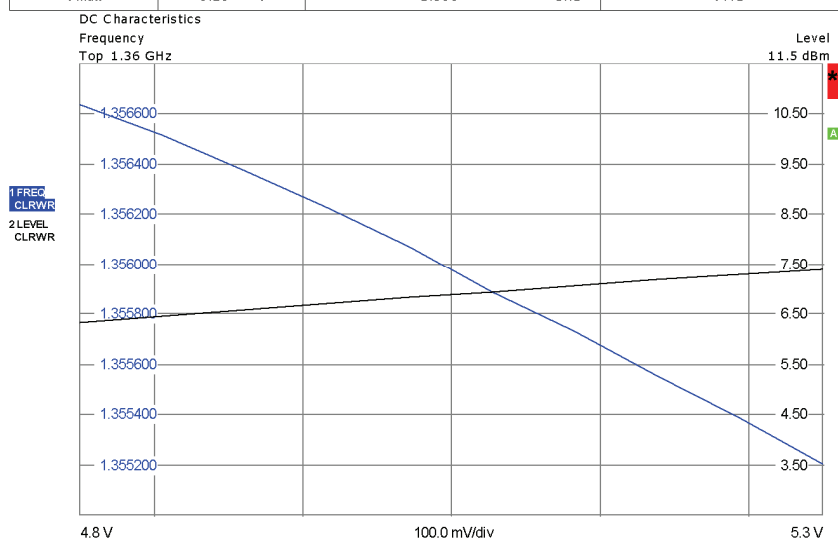
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1100		1612	MHz
Tuning Voltage (V)		0.3		4.7	V
RF Output Power	1100~1612MHz	5.0		9.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			17	20	mA
Phase Noise :					
	@10kHz Offset:		-97	-94	dBc/Hz
	@100kHz Offset:		-118	-115	dBc/Hz
Average Tuning Sensitivity	1100~1612MHz		143.1		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-55		+85	°C
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	TUNING	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
TUNE	SENS.							2 ⁿ		
	(MHz/V)	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
0.3	162.4	1070.6	1042.6	1009.8	5.9	6.3	5.5	-9.7	-10.5	-19.8
0.5	147.1	1103.8	1075.8	1045.4	6.2	6.6	5.9	-10.6	-11.0	-15.3
1.0	149.6	1179.0	1154.0	1125.0	6.8	6.9	6.4	-11.6	-12.2	-14.4
1.5	148.5	1251.8	1224.8	1202.2	6.7	7.4	6.3	-12.7	-14.1	-14.7
2.0	147.0	1323.0	1300.4	1278.2	7.2	7.0	6.0	-13.9	-14.3	-16.5
2.5	150.3	1401.1	1375.0	1355.4	6.5	6.8	5.8	-12.4	-14.3	-16.5
3.0	148.8	1474.2	1452.4	1431.4	6.5	6.7	5.5	-12.0	-13.5	-16.5
3.5	136.0	1545.4	1524.0	1504.2	6.2	6.3	5.3	-13.0	-15.4	-19.2
4.0	124.1	1609.2	1590.0	1571.8	6.2	6.2	5.2	-14.7	-17.2	-20.8
4.5	118.9	1669.8	1648.0	1630.2	6.1	6.3	5.2	-17.1	-20.4	-22.8
4.7	114.1	1692.2	1671.2	1652.4	5.9	6.1	5.4	-17.9	-19.9	-24.5

R&S FSUP Signal Source Analyzer					
Settings			Results		
Supply	Voltage		Frequency		Level
Vmin	4.75	V	1.357	GHz	6.33 dBm
Vcurrent	5.00	V	1.356	GHz	6.89 dBm
Vmax	5.25	V	1.355	GHz	7.41 dBm



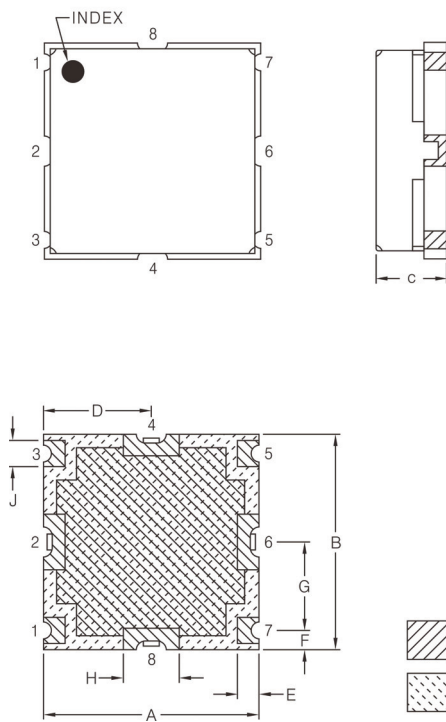
Measurement Aborted

Date: 29.DEC.2014 15:08:24

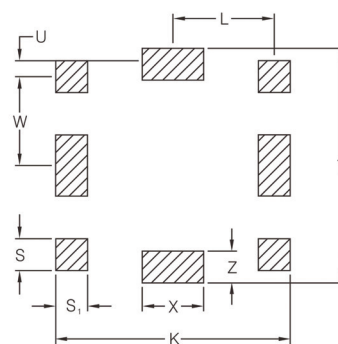
Case Style

SK625A

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

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.