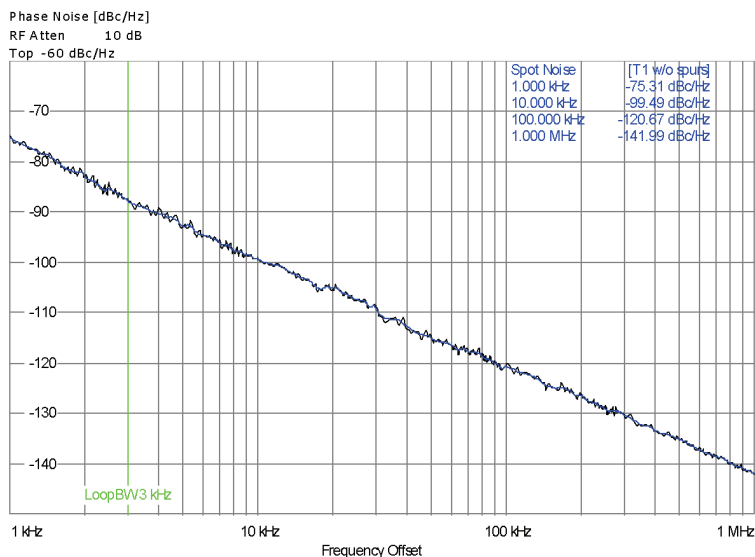
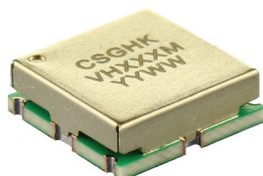


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 1100-1612MHz

VSQ1612E



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)

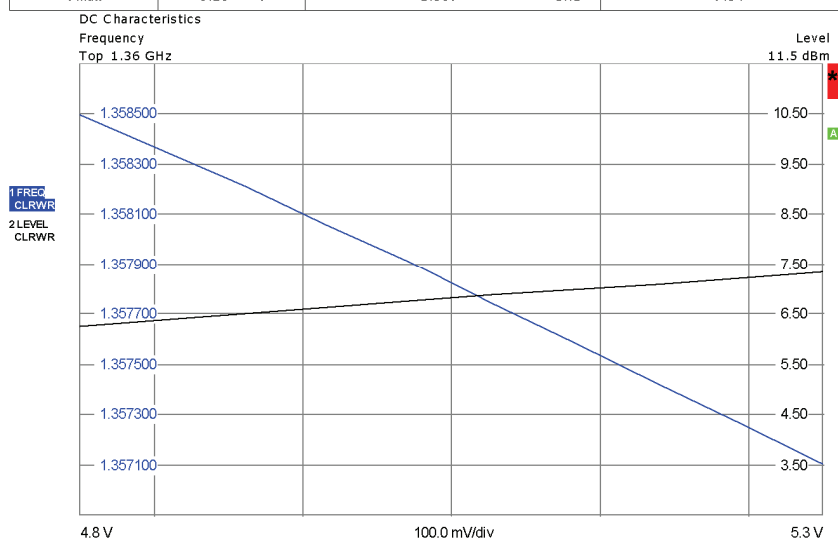
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1100		1612	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	1100~1612MHz	4.0		8.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			18	21	mA
Phase Noise :					
	@10kHz Offset:		-99	-96	dBc/Hz
	@100kHz Offset:		-120	-117	dBc/Hz
Average Tuning Sensitivity	1100~1612MHz		186		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-55		+85	°C
Tune Input Capacitance			22		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℃
0.5	186.7	1047.2	1019.1	990.2	6.3	6.2	5.5	-9.7	-14.0	-18.1
1.0	179.0	1137.2	1108.7	1083.6	6.7	6.7	6.1	-8.9	-12.3	-15.2
1.5	182.1	1225.4	1199.7	1173.8	7.0	6.9	6.4	-8.3	-11.1	-13.5
2.0	191.5	1320.8	1295.1	1270.0	7.2	6.8	6.1	-8.0	-9.8	-13.5
2.5	194.5	1417.0	1391.7	1371.0	7.2	6.9	5.8	-7.8	-8.7	-13.2
3.0	192.2	1514.2	1490.5	1467.4	7.0	6.6	5.7	-9.7	-8.5	-14.2
3.5	176.7	1605.4	1584.1	1562.8	6.9	6.6	5.8	-12.4	-12.1	-16.9
4.0	152.3	1687.2	1666.7	1645.4	6.6	6.1	5.5	-12.9	-13.2	-18.0
4.5	128.7	1759.8	1738.5	1715.0	5.6	5.5	5.3	-13.0	-14.1	-18.6

B6	R&S FSUP Signal Source Analyzer				
	Settings		Results		
	Supply	Voltage	Frequency		Level
	Vmin	4.75 V	1.358	GHz	6.25 dBm
	Vcurrent	5.00 V	1.358	GHz	6.80 dBm
	Vmax	5.25 V	1.357	GHz	7.34 dBm



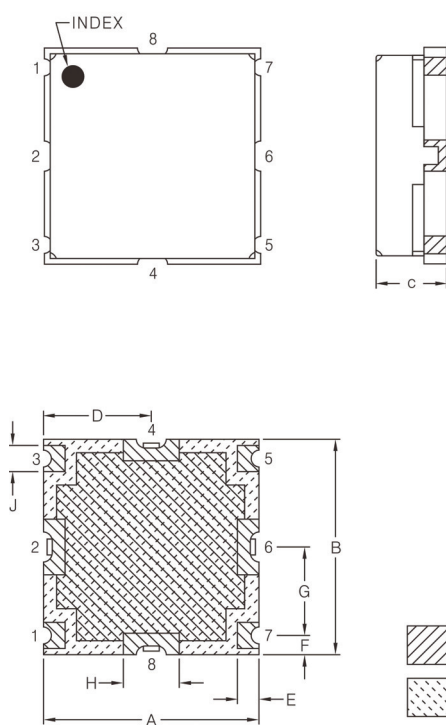
Measurement Aborted

Date: 29.DEC.2014 15:21:23

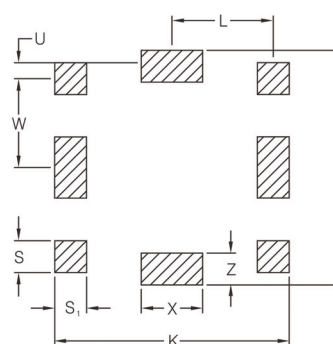
Case Style

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.