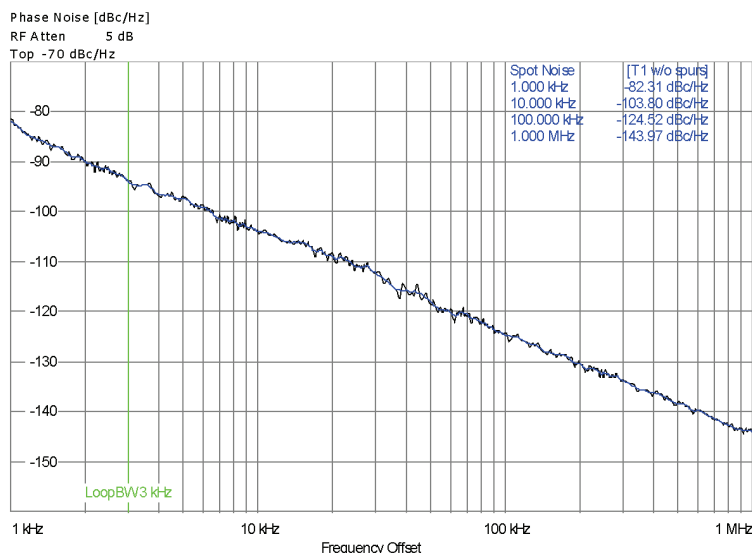




SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 1122-1300MHz

VH1300M



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)

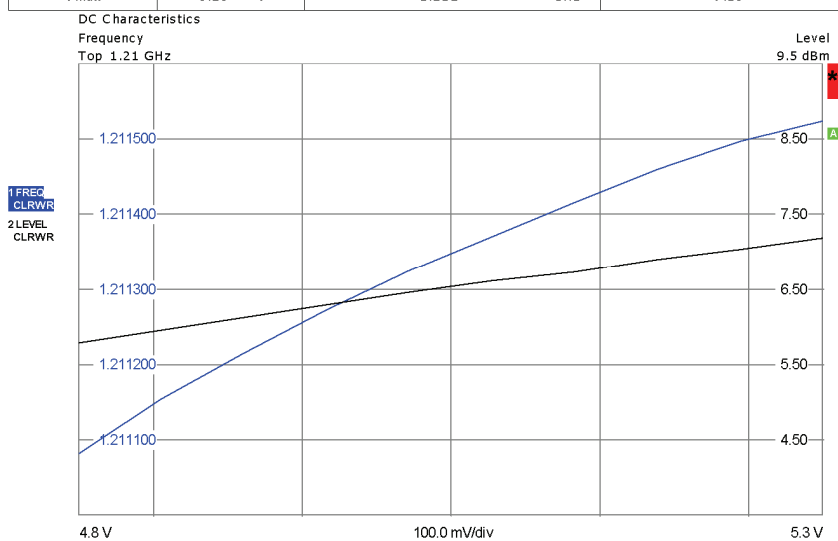
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1122		1300	MHz
Tuning Voltage (V)		0.3		4.7	V
RF Output Power	1122~1300MHz	5.0		9.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			20	23	mA
Phase Noise :					
	@10kHz Offset:		-103	-100	dBc/Hz
	@100kHz Offset:		-124	-121	dBc/Hz
Average Tuning Sensitivity	1122~1300MHz		57		MHz/V
Harmonic Outputs			-13		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	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	65.4	1098.0	1083.5	1073.2	5.6	5.8	4.4	-12.4	-14.0	-19.5
0.5	61.9	1110.8	1096.7	1086.8	5.7	5.9	4.6	-12.4	-14.1	-19.1
1.0	58.9	1141.0	1127.3	1118.6	5.8	5.9	4.6	-11.8	-14.0	-18.9
1.5	56.9	1170.0	1156.9	1148.4	6.3	6.1	4.8	-12.1	-13.5	-17.5
2.0	56.0	1196.6	1184.1	1175.6	6.7	6.5	5.2	-11.9	-13.9	-17.5
2.5	55.5	1224.2	1211.5	1204.0	6.8	6.6	5.4	-12.1	-14.3	-17.9
3.0	55.4	1252.8	1240.3	1232.8	6.6	6.3	5.2	-11.9	-14.7	-19.3
3.5	56.2	1281.2	1269.3	1262.0	6.8	6.2	4.9	-11.6	-13.8	-18.4
4.0	57.4	1308.0	1297.1	1289.6	7.1	6.4	5.2	-12.2	-14.7	-18.6
4.5	58.3	1336.0	1324.7	1317.2	7.1	6.5	5.4	-12.6	-15.6	-19.4
4.7	57.6	1348.0	1335.7	1328.8	7.0	6.4	5.5	-13.3	-16.2	-20.3

R&S FSUP Signal Source Analyzer						
Settings			Results			
Supply	Voltage		Frequency		Level	
Vmin	4.75	V	1.211	GHz	5.79	dBm
Vcurrent	5.00	V	1.211	GHz	6.51	dBm
Vmax	5.25	V	1.212	GHz	7.19	dBm



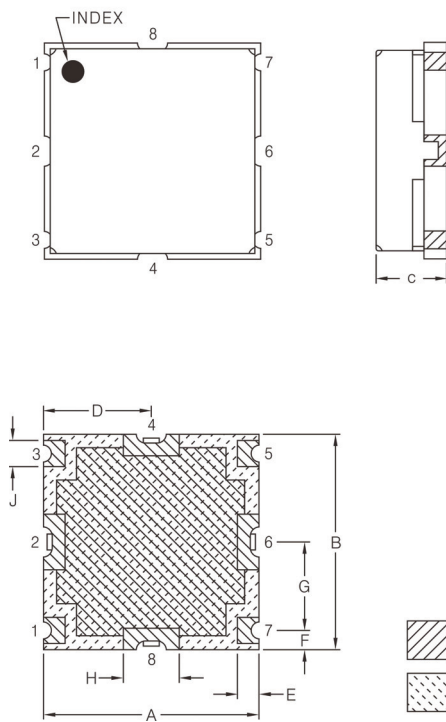
Measurement Aborted

Date: 12.MAY.2016 18:51:07

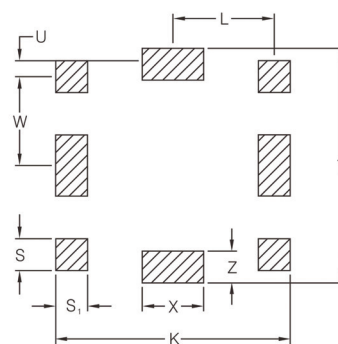
Case Style

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

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.