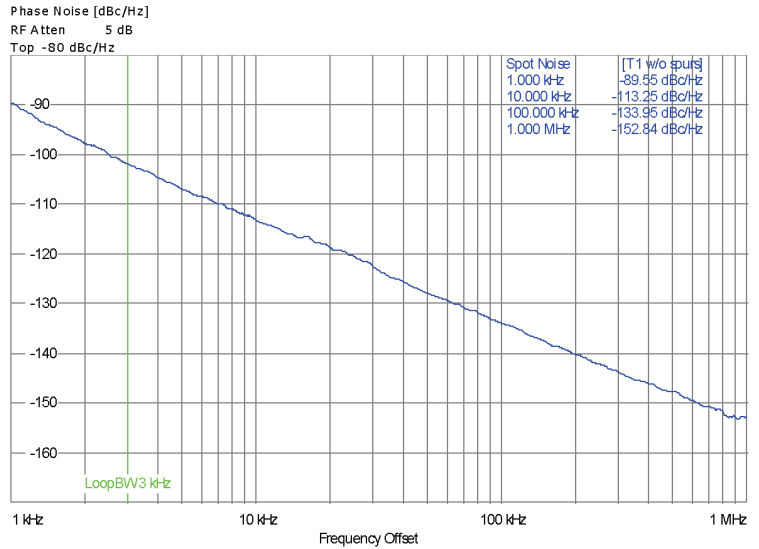
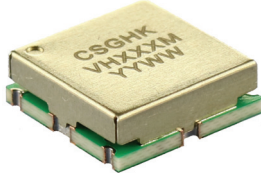


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 1005-1053MHz

S1053M



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)

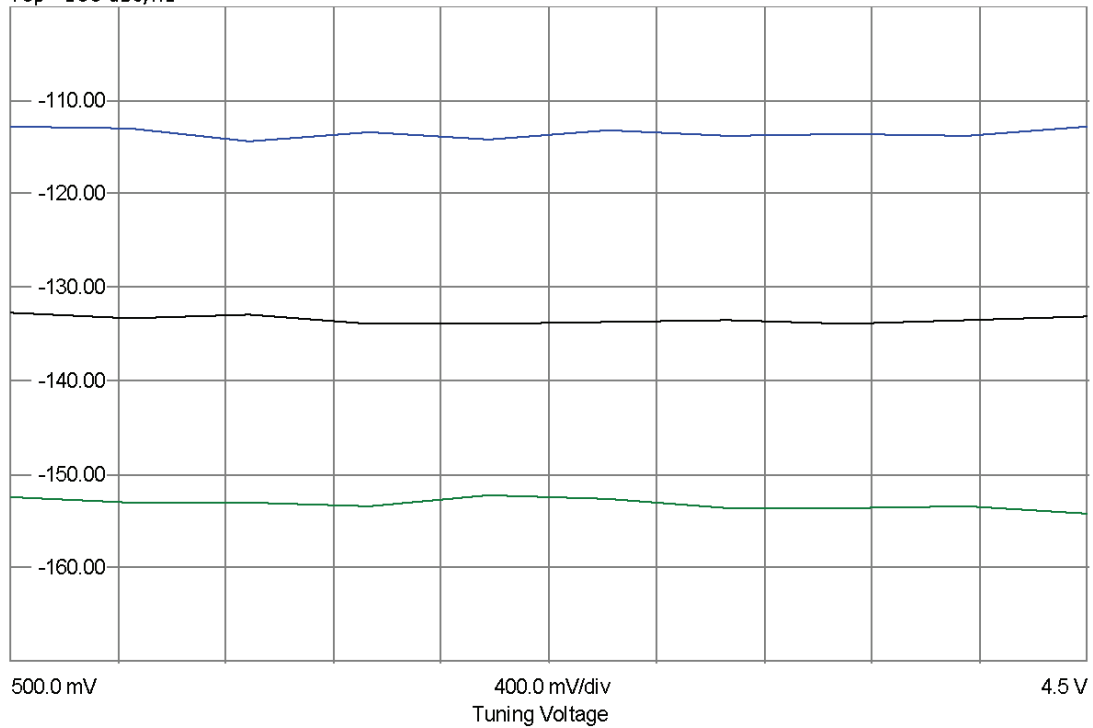
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1005		1053	MHz
Tuning Voltage (V)		1.0		4.0	V
RF Output Power	1005-1053MHz	4.0		8.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			24	27	mA
Phase Noise :					
	@10kHz Offset:		-113	-110	dBc/Hz
	@100kHz Offset:		-133	-130	dBc/Hz
Average Tuning Sensitivity	1005-1053MHz		23		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-55		+85	$^\circ\text{C}$
Tune Input Capacitance			33		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°C	+25°C	+85°C	-55°C	+25°C	+85°C	-55°C	+25°C	+85°C
		1.0	24.3	997.7	994.6	991.8	6.0	5.7	4.8	-11.9
1.5	23.3	1010.1	1006.6	1003.6	5.7	5.7	4.7	-11.9	-11.2	-12.8
2.0	22.5	1021.9	1018.2	1014.6	5.7	5.7	4.9	-12.4	-11.7	-12.8
2.5	22.1	1033.5	1029.4	1026.0	5.8	5.9	5.0	-11.2	-11.7	-12.7
3.0	22.0	1044.7	1040.6	1037.0	5.9	6.0	5.1	-10.9	-11.5	-12.6
3.5	21.9	1056.1	1051.6	1048.2	6.0	6.1	5.2	-10.9	-11.4	-12.7
4.0	21.9	1067.5	1062.6	1059.0	6.1	6.2	5.3	-10.5	-11.2	-12.6

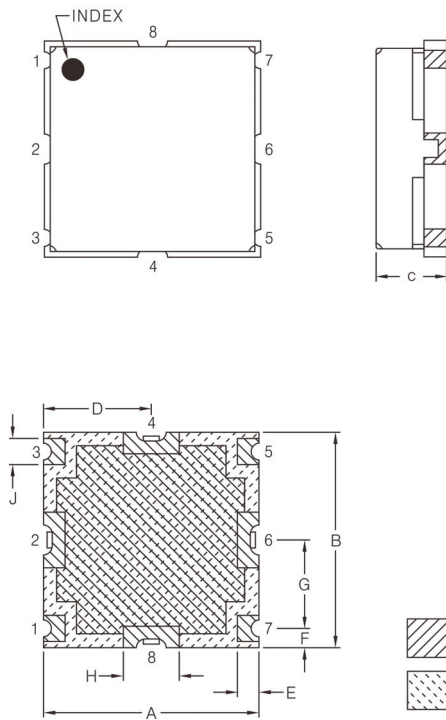
Spot Noise [dBc/Hz]
 RF Atten 5 dB
 Top -100 dBc/Hz



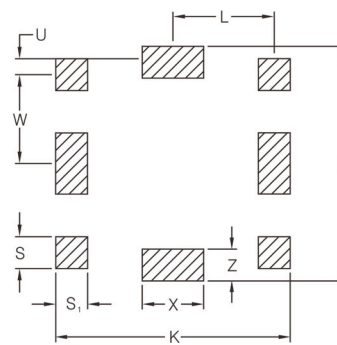
Case Style

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.