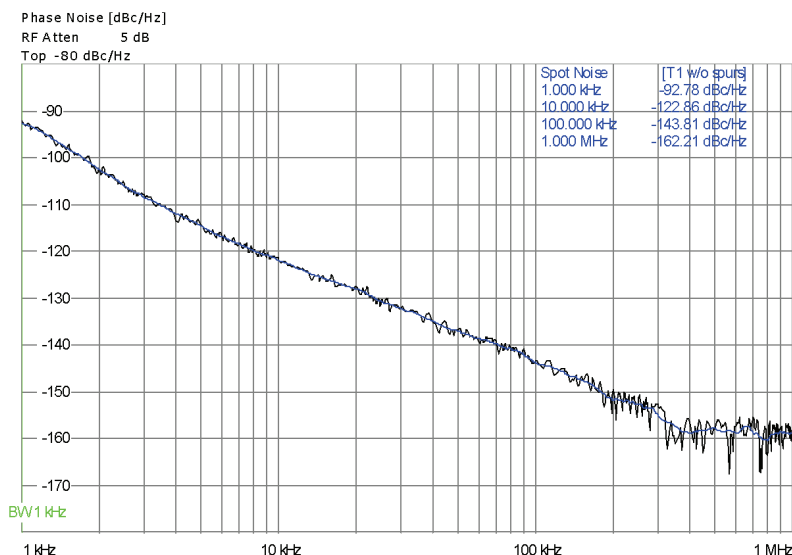
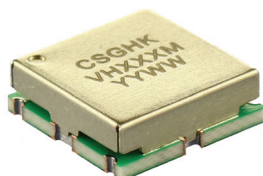


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 230-237MHz

VH237M



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)

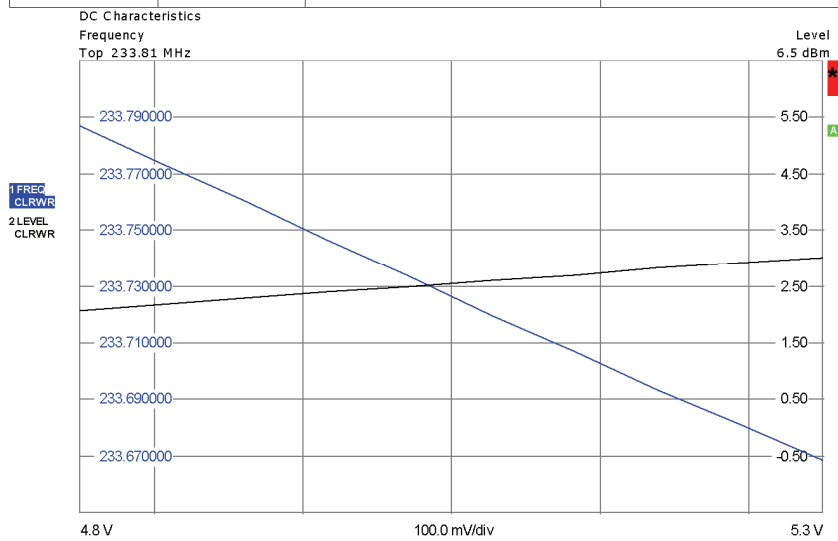
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		230		237	MHz
Tuning Voltage (V)		1.0		4.0	V
RF Output Power	230~237MHz	1.0		5.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			11	14	mA
Phase Noise :					
	@10kHz Offset:		-122	-119	dBc/Hz
	@100kHz Offset:		-143	-140	dBc/Hz
Average Tuning Sensitivity	230~237MHz		8.0		MHz/V
Harmonic Outputs			-5		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°C	+25°C	+85°C	-55°C	+25°C	+85°C	-55°C	+25°C	+85°C
1.0	8.8	223.5	221.8	220.5	1.9	2.6	2.7	-4.6	-5.9	-6.2
1.5	8.3	227.8	226.0	224.8	1.9	2.6	2.7	-4.5	-5.7	-6.2
2.0	7.9	232.0	230.0	228.8	1.8	2.6	2.7	-4.4	-5.7	-6.2
2.5	7.7	236.0	234.0	232.8	1.8	2.5	2.7	-4.3	-5.6	-6.2
3.0	8.0	240.0	238.0	236.5	1.8	2.5	2.7	-4.3	-5.6	-6.2
3.5	8.0	244.0	242.0	240.5	1.9	2.5	2.7	-4.3	-5.7	-6.2
4.0	8.0	248.0	246.0	244.5	1.9	2.5	2.7	-4.5	-5.8	-6.2

B6	R&S FSUP Signal Source Analyzer					
	Settings			Results		
	Supply	Voltage		Frequency		Level
	Vmin	4.75	V	233.787	MHz	2.05 dBm
	Vcurrent	5.00	V	233.727	MHz	2.56 dBm
	Vmax	5.25	V	233.668	MHz	3.01 dBm



Measurement Aborted

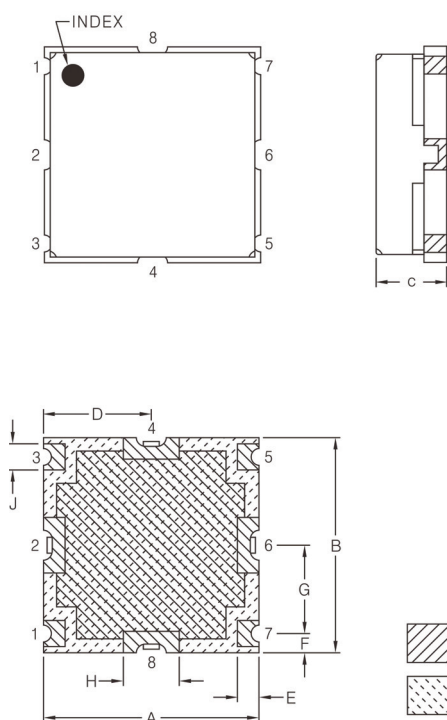
Date: 14.SEP.2013 09:19:57

Case Style

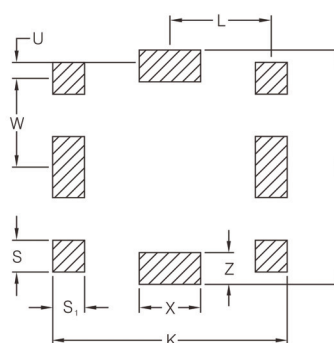
SK625

A

Outline Dimensions



PCB Land Pattern



SK625	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	MD	GND	VT	GND	RF OUT	GND

Notes:

1. Case material: Nickel-Silver alloy.
2. Base: Printed wiring laminate.