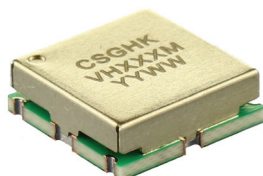




SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

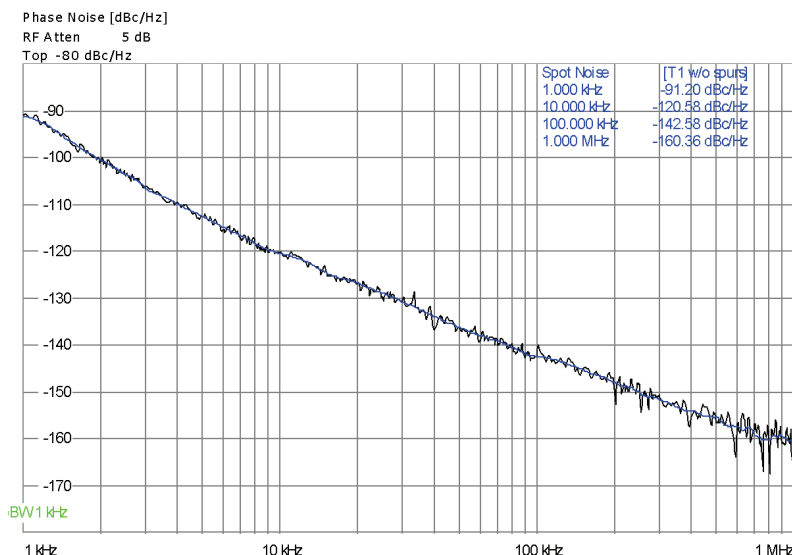
Frequency 268-275MHz

VH275M



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)

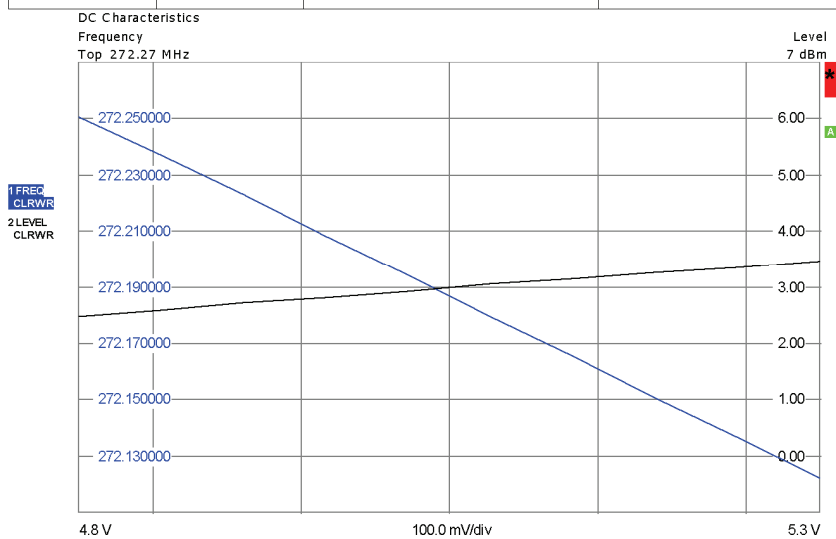
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		268		275	MHz
Tuning Voltage (V)		1.0		4.0	V
RF Output Power	268~275MHz	1.0		5.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			11	14	mA
Phase Noise :					
	@10kHz Offset:		-120	-117	dBc/Hz
	@100kHz Offset:		-142	-139	dBc/Hz
Average Tuning Sensitivity	268~275MHz		8.0		MHz/V
Harmonic Outputs			-4		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℃
1.0	9.5	260.5	258.5	257.3	1.8	2.6	2.7	-3.3	-4.1	-4.7
1.5	9.0	265.0	263.	262.0	1.8	2.6	2.7	-3.1	-4.1	-4.6
2.0	8.5	269.5	267.5	266.3	1.9	2.6	2.7	-3.0	-4.1	-4.5
2.5	8.2	273.5	271.5	270.3	2.0	2.7	2.8	-3.1	-4.3	-4.5
3.0	8.5	277.8	275.8	274.3	2.1	2.8	2.9	-3.2	-4.5	-4.6
3.5	8.5	282.0	280.0	278.5	2.2	2.9	3.1	-3.5	-4.8	-4.9
4.0	8.7	286.5	284.3	282.8	2.4	3.2	3.2	-4.1	-5.2	-5.2

B6	R&S FSUP Signal Source Analyzer				
	Settings		Results		
	Supply	Voltage	Frequency		Level
	Vmin	4.75 V	272.251	MHz	2.47 dBm
	Vcurrent	5.00 V	272.187	MHz	2.99 dBm
	Vmax	5.25 V	272.122	MHz	3.46 dBm



Measurement Aborted

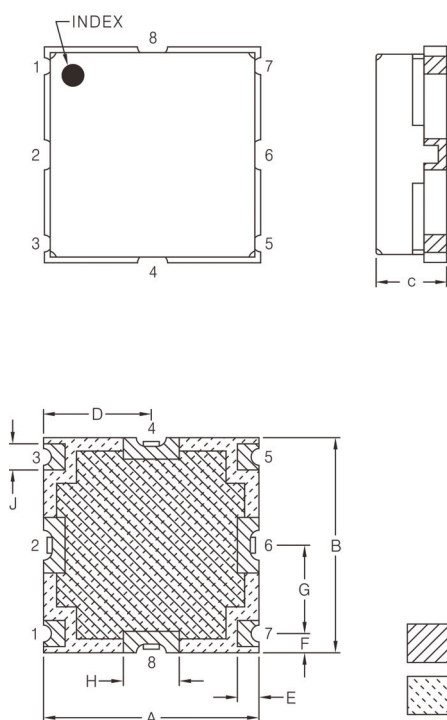
Date: 14.SEP.2013 09:07:45

Case Style

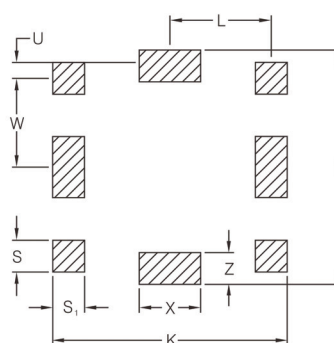
SK625

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.