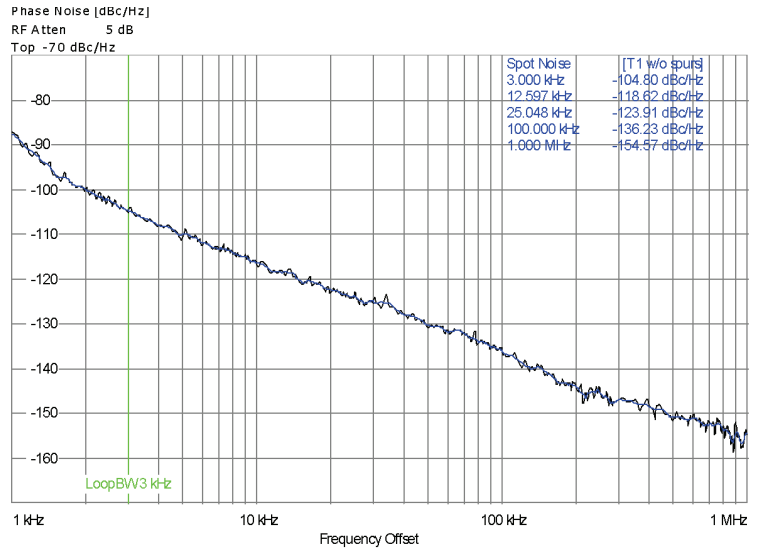
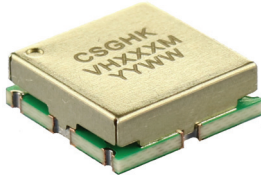


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 347-455MHz

VH401MR



FEATURES

- ▶ Miniature Size
- ▶ Surface Mount Package
- ▶ Low Phase Noise Performance
- ▶ Electrically Shielded
- ▶ Highly Linear Tuning

Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +3.3\text{V}$ (unless otherwise stated)

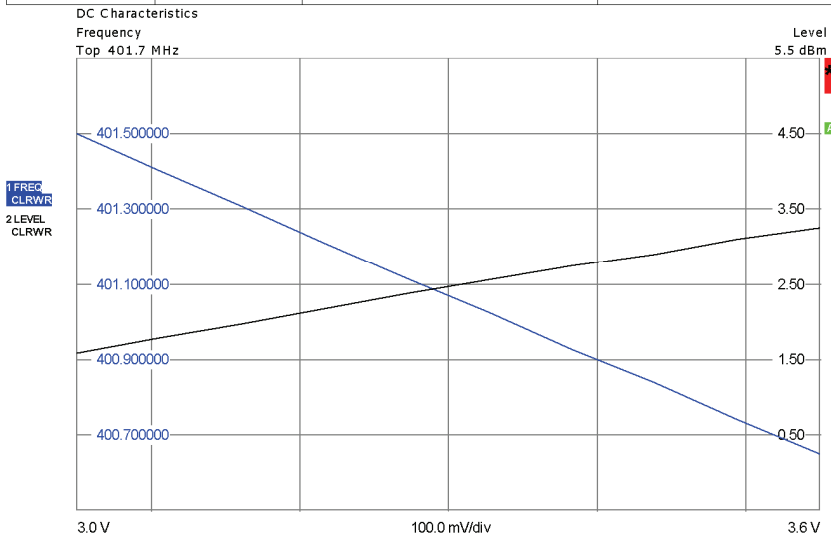
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		347		455	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	347-455MHz	0.0		4.0	dBm
Supply Voltage (Vcc)		3.05	3.3	3.55	V
Supply Current (Icc)			11	14	mA
Phase Noise :					
	@12.5kHz Offset:		-118	-115	dBc/Hz
	@100kHz Offset:		-136	-133	dBc/Hz
Average Tuning Sensitivity	347-455MHz		33.7		MHz/V
Harmonic Outputs			-5		dBc
OperatingTemperature Range		-40		+85	$^\circ\text{C}$
Tune Input Capacitance			100		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)		
		-40°C	+25°C	+85°C	-55°C	+25°C	+85°C	-40°C	+25°C	+85°C
0.5	33.8	343.3	337.5	333.8	-0.5	1.6	2.0	-3.4	-7.0	-8.6
1.0	33.7	360.5	354.0	350.2	0.3	1.8	2.2	-4.3	-6.5	-7.8
1.5	39.1	379.0	371.8	368.3	1.0	2.5	2.5	-4.8	-7.3	-10.2
2.0	39.3	399.3	392.8	388.5	1.2	2.4	2.6	-4.8	-9.1	-12.6
2.5	36.2	417.8	411.5	407.3	1.3	2.6	2.8	-5.4	-10.1	-13.0
3.0	32.2	434.8	428.5	404.5	1.4	2.5	2.8	-6.0	-10.1	-11.9
3.5	26.2	449.0	443.3	439.3	1.8	2.8	3.1	-7.3	-10.9	-13.0
4.0	21.1	461.0	455.3	451.3	2.0	3.1	3.5	-8.0	-11.3	-11.7
4.5	15.7	470.0	464.3	460.3	2.2	3.4	3.8	-7.8	-10.6	-11.1

R&S FSUP Signal Source Analyzer						
Settings			Results			
Supply	Voltage		Frequency		Level	
Vmin	3.05	V	401.501	MHz	1.58	dBm
Vcurrent	3.30	V	401.068	MHz	2.47	dBm
Vmax	3.55	V	400.647	MHz	3.26	dBm



Measurement Aborted

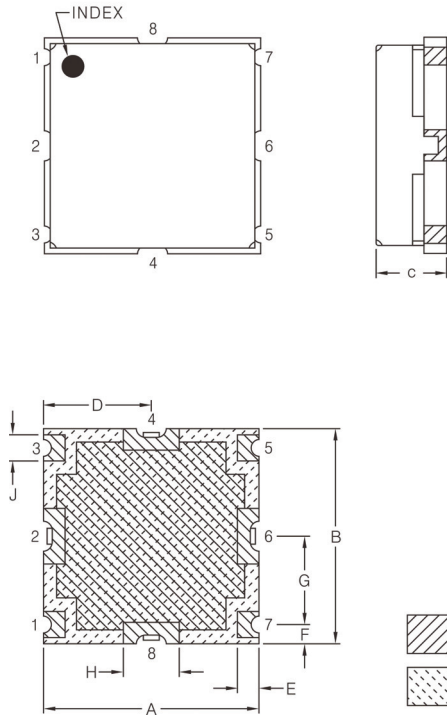
Date: 23.MAY.2013 15:22:09

Case Style

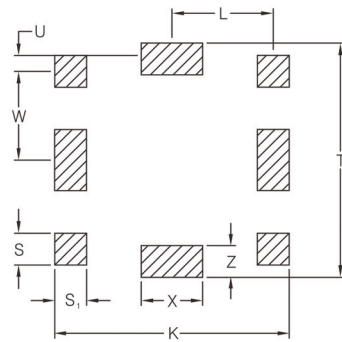
SK625

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	GND	GND	VT	GND	RF OUT	GND

Notes:

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