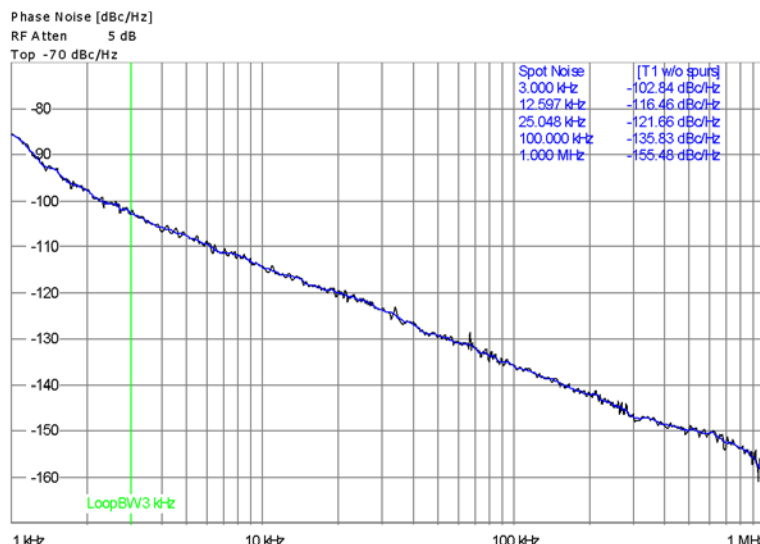


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 400-530MHz

VH465A



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)

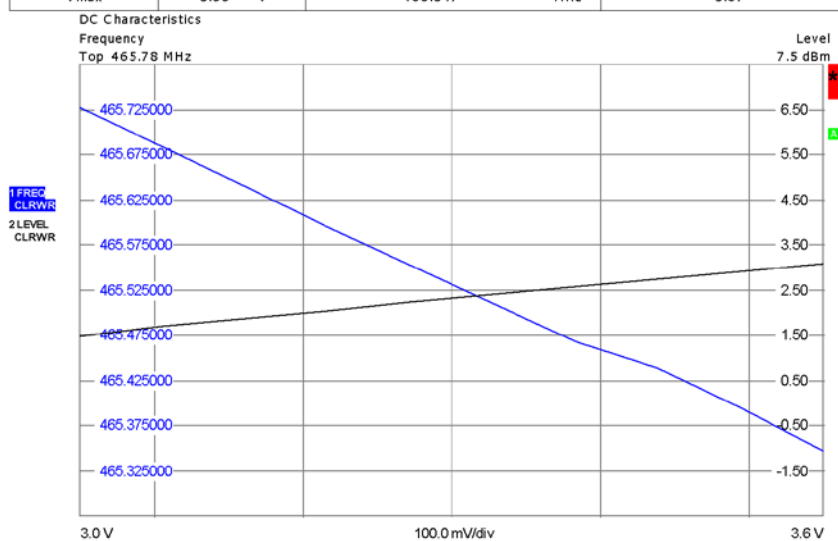
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		400		530	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	400–530MHz	0.0		4.0	dBm
Supply Voltage (Vcc)		3.05		3.55	V
Supply Current (Icc)			11	14	mA
Phase Noise :					
	@12.5kHz Offset:		-116	-113	dBc/Hz
	@100kHz Offset:		-135	-132	dBc/Hz
Average Tuning Sensitivity	400–530MHz		39.2		MHz/V
Harmonic Outputs			-5		dBc
OperatingTemperature Range		-40		+85	°C
Tune Input Capacitance			100		PF
Output Impedance –			50		Ω
Package Type	SK625(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)		
		-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
0.5	40.9	390.8	384.0	380.0	0.5	1.8	1.9	-5.0	-7.2	-9.9
1.0	43.9	412.2	405.6	401.6	0.7	1.7	1.9	-4.4	-8.5	-11.4
1.5	44.6	433.8	427.4	422.4	0.9	1.8	2.0	-5.2	-9.4	-11.3
2.0	43.3	456.6	449.2	443.8	1.0	2.2	2.5	-6.1	-9.8	-10.2
2.5	41.1	478.4	470.8	464.8	1.3	2.4	2.8	-6.6	-8.5	-8.9
3.0	40.4	498.6	491.0	486.8	1.6	2.7	2.6	-6.7	-7.3	-9.4
3.5	36.3	516.8	510.8	507.8	1.7	2.6	2.5	-6.1	-7.8	-10.7
4.0	30.1	533.0	527.4	523.6	1.7	2.4	2.6	-5.3	-8.4	-11.9
4.5	23.4	546.0	540.6	537.0	1.6	2.4	2.7	-5.3	-9.7	-12.6

B6	R&S FSUP Signal Source Analyzer				
	Settings		Results		
	Supply	Voltage	Frequency		Level
	Vmin	3.05 V	465.728	MHz	1.46 dBm
	Vcurrent	3.30 V	465.531	MHz	2.33 dBm
	Vmax	3.55 V	465.347	MHz	3.07 dBm



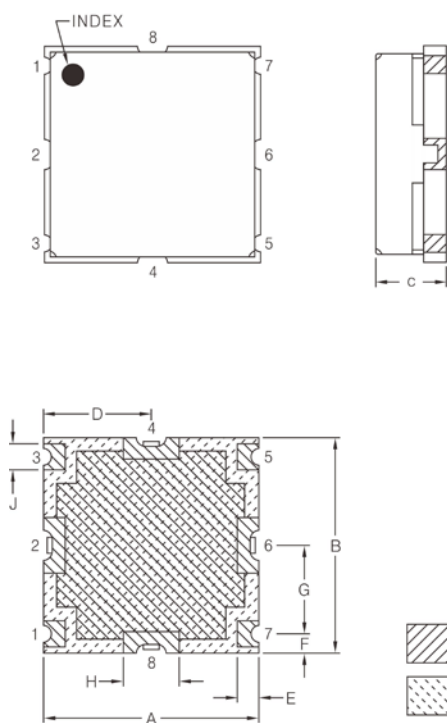
Measurement Aborted

Date: 19.APR.2013 16:05:07

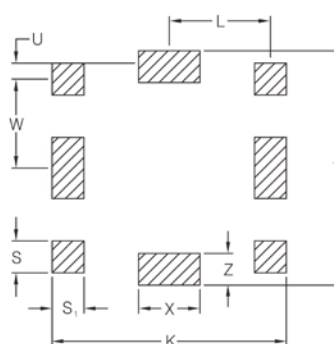
Case Style

SK625

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	VT	GND	NC	GND	RF OUT	GND

Notes:

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