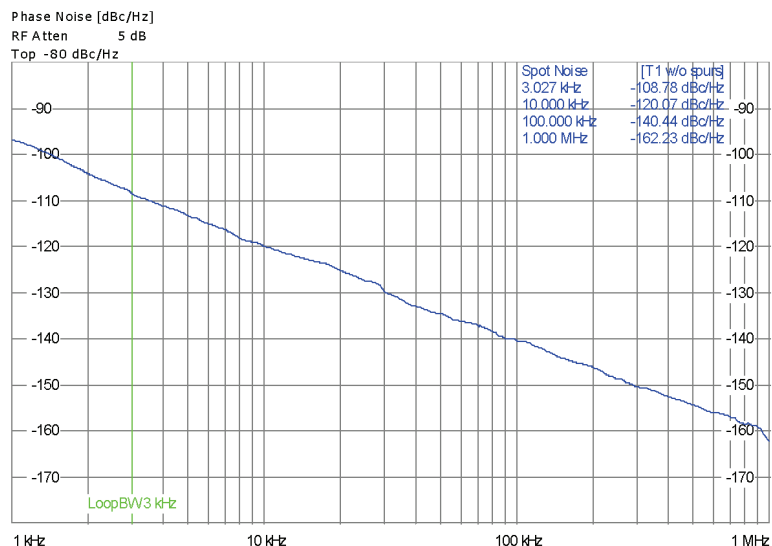
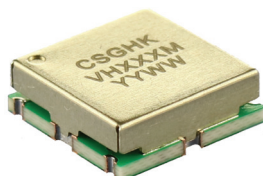


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 435-465MHz

WH450A



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)

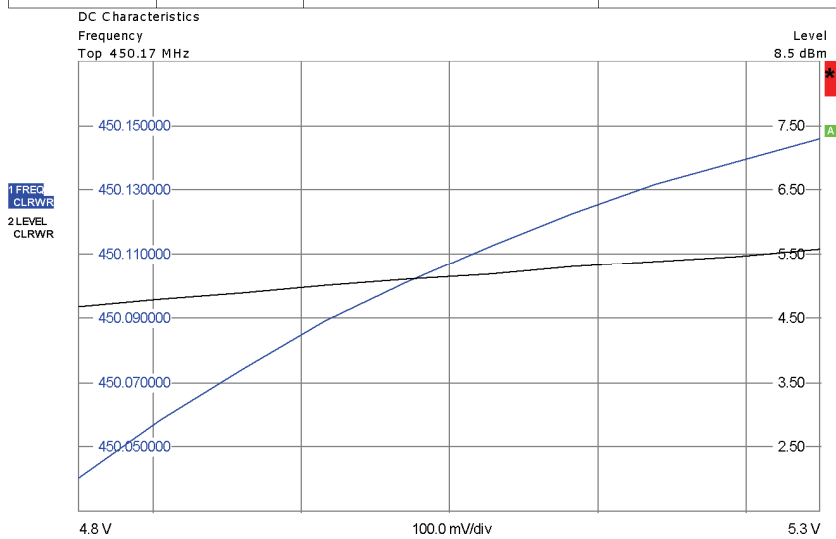
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		435		465	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	435-465MHz	3.0		7.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			24	27	mA
Phase Noise :					
	@10kHz Offset:		-120	-117	dBc/Hz
	@100kHz Offset:		-140	-137	dBc/Hz
Average Tuning Sensitivity	435-465MHz		-11.6		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-55		+85	°C
Tune Input Capacitance			82		PF
Output Impedance -			50		Ω
Package Type	SK625D(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℃
0.5	13.1	425.7	424.8	423.8	5.3	4.9	4.7	-11.5	-11.8	-12.1
1.0	11.9	432.5	431.0	430.2	5.4	5.0	4.8	-11.7	-11.7	-12.2
1.5	11.1	438.5	436.8	435.8	5.4	5.1	4.8	-11.7	-11.7	-12.3
2.0	11.0	444.1	442.2	441.4	5.4	5.1	4.8	-11.7	-11.9	-12.4
2.5	11.3	449.9	447.8	447.0	5.3	5.1	4.7	-11.7	-12.0	-12.6
3.0	11.7	455.9	453.6	452.7	5.3	5.0	4.6	-11.7	-11.9	-12.7
3.5	12.3	462.1	459.6	458.4	5.3	5.0	4.5	-11.8	-12.2	-12.9
4.0	13.1	468.7	465.8	464.8	5.3	4.9	4.3	-11.9	-12.2	-13.0
4.5	14.0	475.3	472.8	471.8	5.2	4.7	4.1	-11.8	-12.4	-13.1

R&S FSUP Signal Source Analyzer					
Settings			Results		
Supply	Voltage		Frequency		Level
Vmin	4.75	V	450.040	MHz	4.68 dBm
Vcurrent	5.00	V	450.107	MHz	5.15 dBm
Vmax	5.25	V	450.146	MHz	5.58 dBm

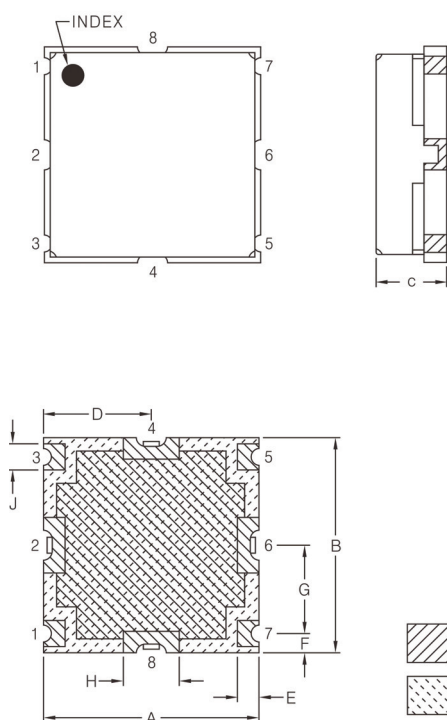


Measurement Aborted

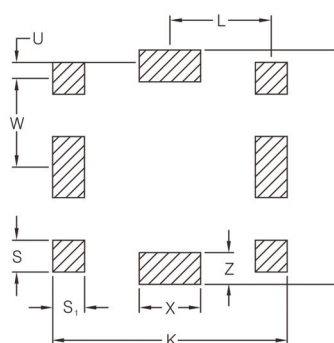
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D

Outline Dimensions



PCB Land Pattern



SK625D	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

SK625D	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	VT	GND	VCC	GND	RF OUT	GND	NC	GND

Notes:

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