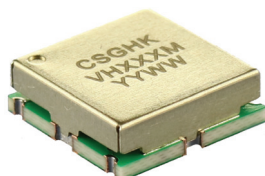


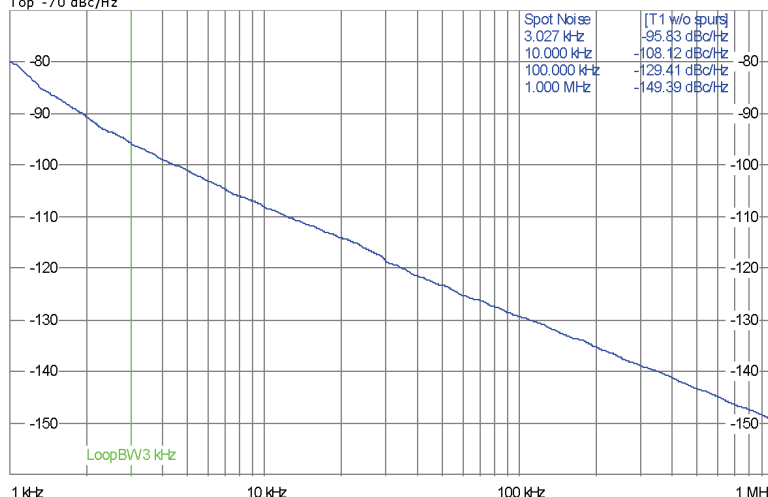
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 1685-1735MHz

WH1710A



Phase Noise [dBc/Hz]
RF Atten 5 dB
Top -70 dBc/Hz



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)

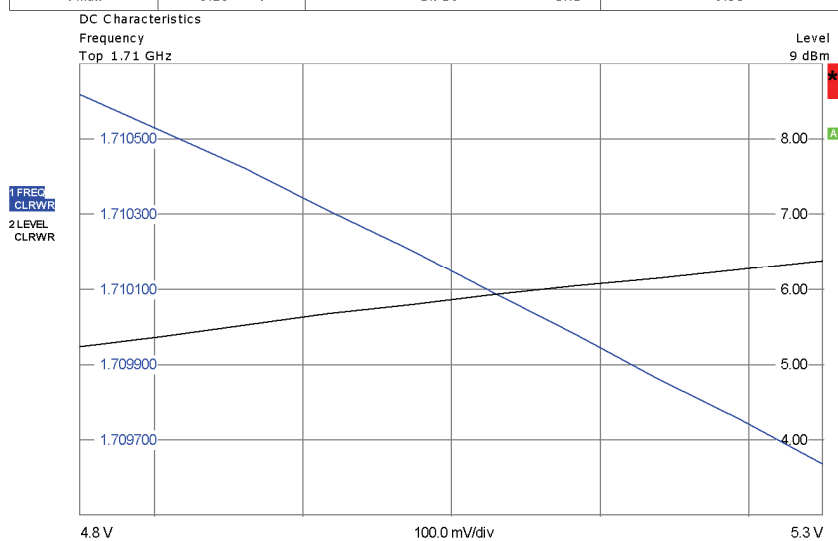
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1685		1735	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	1685-1735MHz	3.0		7.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			18	21	mA
Phase Noise :					
	@10kHz Offset:		-107	-104	dBc/Hz
	@100kHz Offset:		-128	-125	dBc/Hz
Average Tuning Sensitivity	1685-1735MHz		24.3		MHz/V
Harmonic Outputs			-15		dBc
OperatingTemperature Range		-55		+85	°C
Tune Input Capacitance			20		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	31.0	1673.8	1662.0	1656.3	6.8	5.6	4.2	-14.4	-17.6	-22.2
1.0	27.7	1687.0	1676.2	1670.9	6.9	5.7	4.3	-14.1	-17.0	-22.2
1.5	25.4	1699.8	1689.0	1683.9	7.1	5.9	4.4	-14.7	-16.9	-21.4
2.0	24.5	1712.5	1701.0	1695.7	7.1	6.0	4.5	-14.6	-17.5	-21.6
2.5	23.9	1724.7	1713.2	1707.7	6.8	5.8	4.5	-13.8	-17.8	-22.4
3.0	23.2	1737.0	1725.6	1719.7	6.5	5.5	4.3	-13.1	-17.6	-23.3
3.5	22.3	1748.0	1737.6	1731.5	6.5	5.0	3.9	-13.0	-16.7	-23.0
4.0	21.0	1758.2	1748.6	1743.0	6.5	4.9	3.7	-13.0	-16.6	-22.3
4.5	19.6	1767.6	1758.4	1753.7	6.6	4.8	3.5	-12.9	-16.6	-21.8

R&S FSUP Signal Source Analyzer					
Settings			Results		
Supply	Voltage		Frequency		Level
Vmin	4.75	V	1.711	GHz	5.24 dBm
Vcurrent	5.00	V	1.710	GHz	5.84 dBm
Vmax	5.25	V	1.710	GHz	6.38 dBm

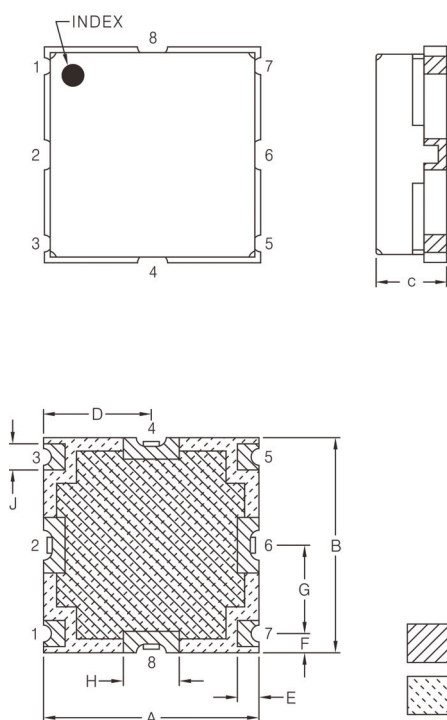


Measurement Aborted

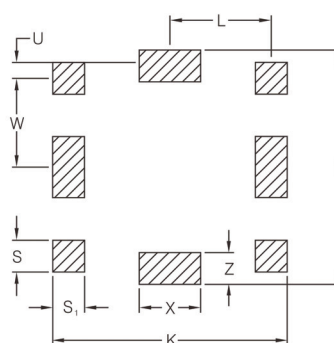
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D

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.