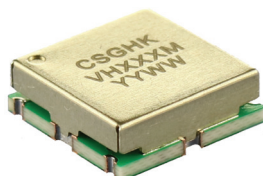


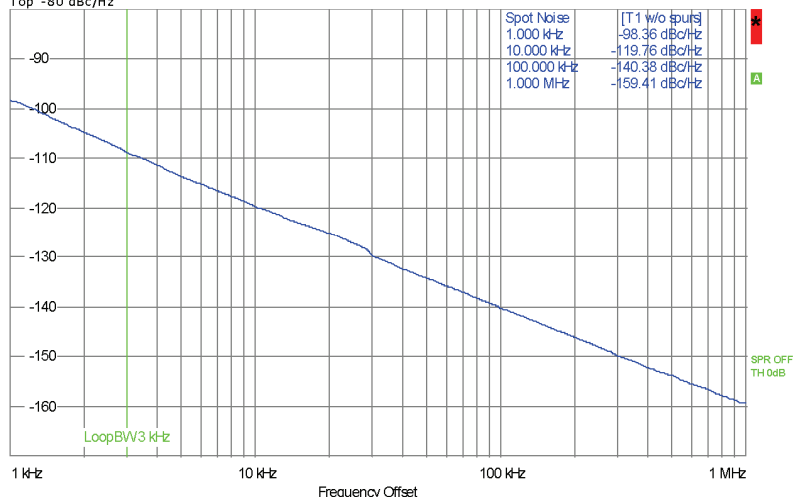
SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency

S885M



Phase Noise [dBc/Hz]
RF Atten 10 dB manual
Top -80 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)

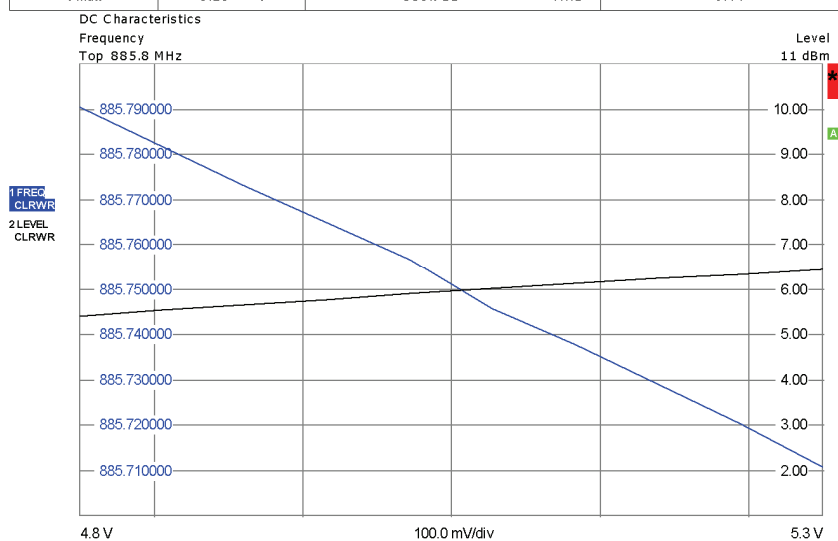
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs			885		MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power		4.0		8.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			23	27	mA
Phase Noise :					
	@10kHz Offset:		-119	-116	dBc/Hz
	@100kHz Offset:		-140	-137	dBc/Hz
Average Tuning Sensitivity			8.8		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-55		+85	$^\circ\text{C}$
Tune Input Capacitance			39		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°C	+25°C	+85°C	-55°C	+25°C	+85°C	-55°C	+25°C	+85°C
0.5	13.4	867.8	865.6	863.3	5.8	5.2	5.2	-12.9	-14.5	-14.7
1.0	11.5	874.0	871.8	869.6	5.6	5.2	5.2	-13.2	-14.6	-14.7
1.5	10.0	879.4	877.2	874.8	5.5	5.2	5.3	-13.4	-14.5	-14.9
2.0	9.3	884.4	882.0	879.6	5.4	5.2	5.3	-13.5	-14.3	-14.7
2.5	8.8	889.0	886.6	884.0	5.4	5.3	5.4	-13.4	-14.2	-14.5
3.0	8.6	893.4	891.0	888.4	5.3	5.3	5.4	-13.2	-13.9	-14.4
3.5	8.4	897.8	895.2	892.6	5.2	5.4	5.4	-13.0	-13.8	-14.1
4.0	8.3	902.2	899.6	896.6	5.2	5.4	5.5	-12.8	-13.4	-14.0
4.5	8.3	906.6	903.6	901.0	5.2	5.5	5.6	-12.7	-13.3	-13.8

R&S FSUP Signal Source Analyzer					
Settings			Results		
Supply	Voltage		Frequency		Level
Vmin	4.75	V	885.790	MHz	5.40 dBm
Vcurrent	5.00	V	885.751	MHz	5.94 dBm
Vmax	5.25	V	885.711	MHz	6.44 dBm



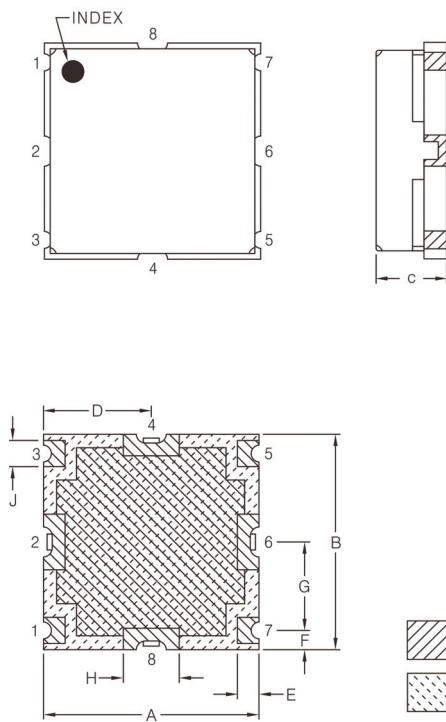
Measurement Aborted

Date: 26.NOV.2014 15:24:29

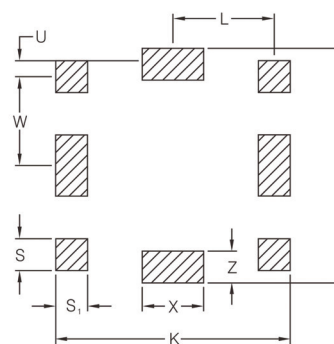
Case Style

SK625A

Outline Dimensions



PCB Land Pattern



SK625A	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	NC	GND	VT	GND	RF OUT	GND

Notes:

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