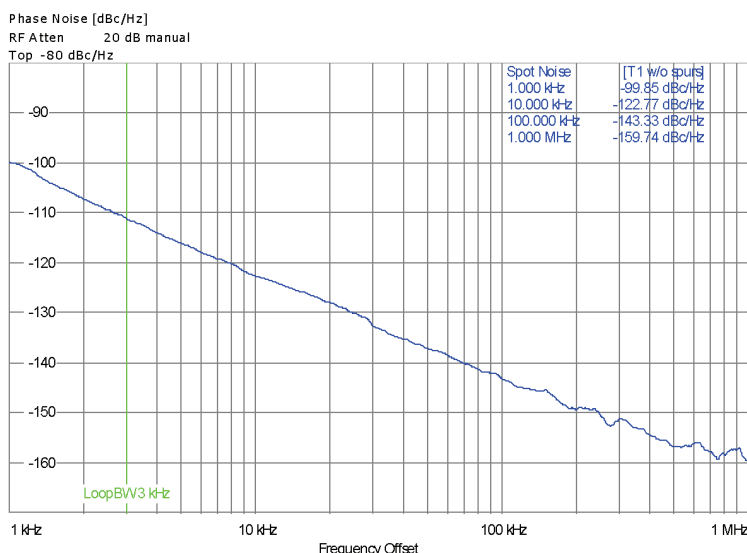
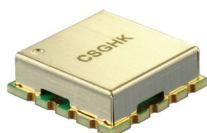


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency

VT410A



FEATURES

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

Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +4.75\text{V}$ (unless otherwise stated)

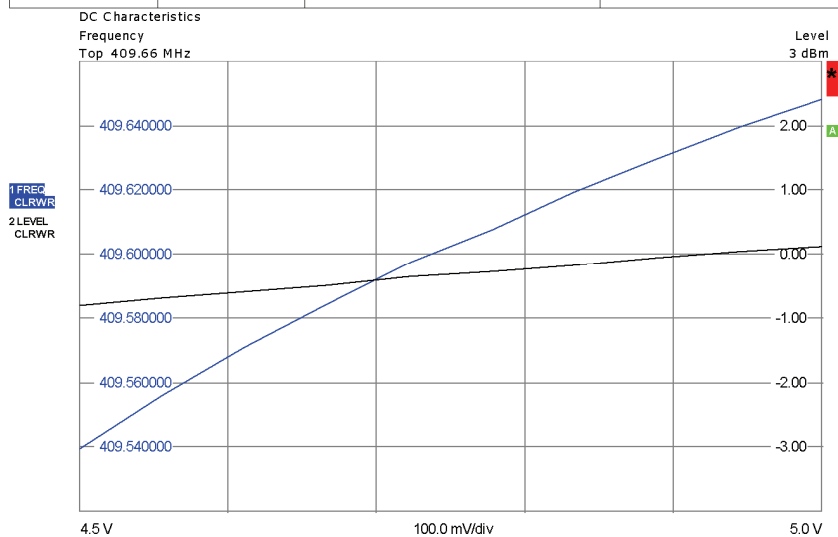
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs			409.6		MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power		-2.0		2.0	dBm
Supply Voltage (Vcc)		4.50	4.75	5.00	V
Supply Current (Icc)			19	22	mA
Phase Noise :					
	@10kHz Offset:		-121	-118	dBc/Hz
	@100kHz Offset:		-142	-139	dBc/Hz
Average Tuning Sensitivity			5.4		MHz/V
Harmonic Outputs			-14		dBc
Operating Temperature Range		-55		+85	$^\circ\text{C}$
Tune Input Capacitance			100		PF
Output Impedance -			50		Ω
Package Type	SK605(12.7X12.7X4.3mm)				

Comments

X Indicates parameter to be tested 100% in production

V TUNE	TUNING SENS. (MHz/V)	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc) 2 ⁿ		
		-55℃	+25℃	+85℃	-55℃	+25℃	+85℃	-55℃	+25℃	+85℃
0.5	7.6	398.6	397.0	395.6	-0.6	-0.6	-0.8	-14.0	-14.0	-14.1
1.0	6.5	402.2	400.4	399.0	-0.5	-0.5	-0.7	-14.0	-14.1	-14.2
1.5	5.9	405.4	403.6	402.2	-0.6	-0.5	-0.7	-14.1	-14.1	-14.2
2.0	5.5	408.4	406.4	405.2	-0.6	-0.4	-0.7	-14.1	-14.2	-14.2
2.5	5.4	411.2	409.2	408.0	-0.6	-0.4	-0.8	-14.2	-14.2	-14.2
3.0	5.4	414.0	412.0	410.6	-0.6	-0.4	-0.8	-14.1	-14.2	-14.3
3.5	5.5	417.0	414.8	413.6	-0.5	-0.4	-0.9	-14.3	-14.2	-14.4
4.0	5.6	419.8	417.4	416.2	-0.5	-0.4	-0.9	-14.1	-14.2	-14.5
4.5	5.9	422.8	420.4	419.2	-0.5	-0.5	-1.0	-13.9	-14.0	-14.5

B6	R&S FSUP Signal Source Analyzer					
	Settings			Results		
	Supply	Voltage		Frequency		Level
	Vmin	4.50	V	409.539	MHz	-0.80 dBm
	Vcurrent	4.75	V	409.603	MHz	-0.31 dBm
	Vmax	5.00	V	409.648	MHz	0.12 dBm



Measurement Aborted

Date: 12.OCT.2015 22:04:32

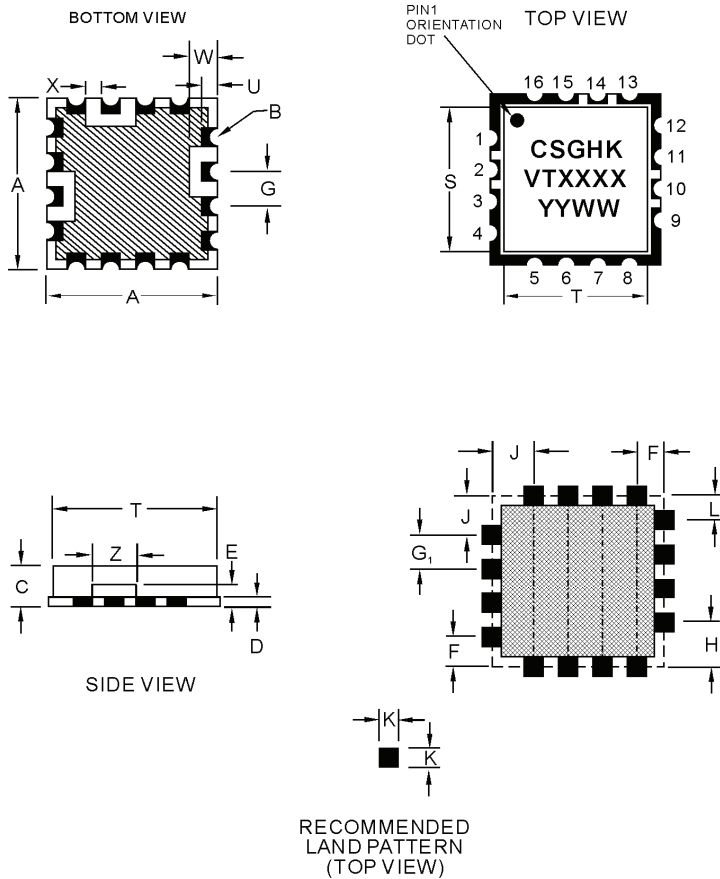
REVISIONS

NOTE. UNLESS OTHERWISE SPECIFIED:

1. THE METAL CASE IS GROUND
2. ALL HALF VIA CONTACTS ARE PLATED THRU FROM THE PAD ON THE TOP SIDE TO THE PAD ON THE BOTTOM SIDE OF THE BOARD.
3. HATCHED AREAS GROUND AND ARE COVERED WITH LPI SOLDER MASK OVER BARE COPPER. ALL CONTACT AREAS ARE PLATED. SIGNAL VIAS MAY BE LOCATED WITHIN GROUND PLANE.
4. SUBSTRATE MATERIAL: FR-4
5. XXXX REPRESENTS THE MODEL NUMBER.
6. YYWW IS THE DATA CODE.

PIN OUT FOR PLL	
PIN	APPLICATION
2	VT
10	RF OUT
14	VCC

ALL OTHER PINS ARE GROUND



SYMBOL	DIMENSION	
	MILLIMETERS	INCHES
A	12.7±0.25	0.50±0.010
B	R=0.50	R=0.019
C	4.3	0.169
D	0.99MAX	0.039MAX
E	1.75MAX	0.069MAX
F	2.16	0.085
G	2.54±0.08	0.100±0.003
G ₁	2.54	0.100
H	3.07	0.121
J	2.92	0.115
K	1.52	0.060
L	2.00	0.079
S	11.68	0.460
T	11.81	0.465
U	1.10	0.043
W	1.78	0.188
X	1.02	0.040
Z	3.49	0.137

	APPROVALS	DATA	 SK605 PACKAGE MECHANICAL PCB OUTLINE
DRAWN BY			
CHECKED BY			
PROCESS ENG			
QUALITY			