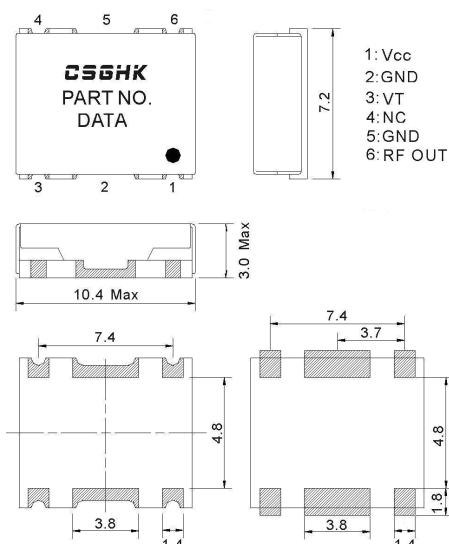


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency **1700-1740MHz**

VP1720A



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)

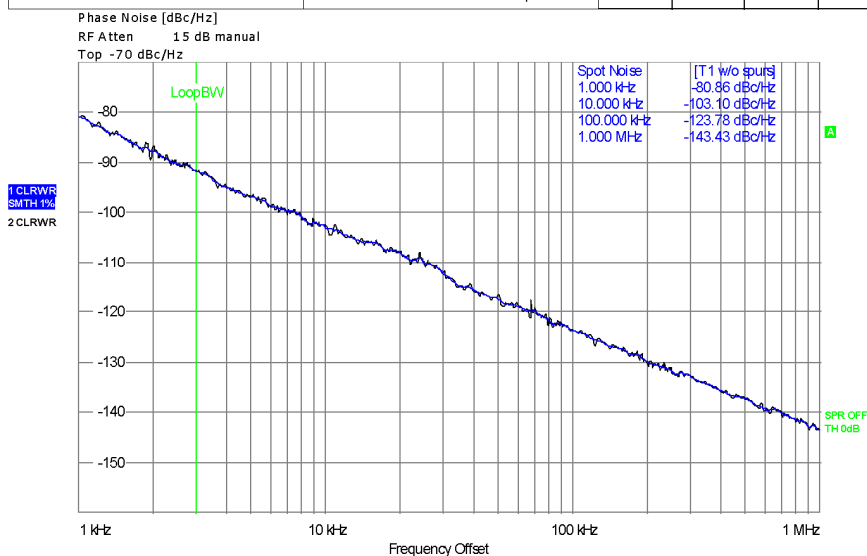
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1700		1740	MHz
Tuning Voltage (V)		0.5		3.0	V
RF Output Power	1700-1740MHz	-2.0		2.0	dBm
Supply Voltage (Vcc)		3.0	3.3	3.6	V
Supply Current (Icc)			11	14	mA
Phase Noise :					
	@10kHz Offset:		-103	-100	dBc/Hz
	@100kHz Offset:		-123	-120	dBc/Hz
Average Tuning Sensitivity	1700-1740MHz		34.5		MHz/V
Harmonic Outputs			-10		dBc
Operating Temperature Range		-40		+85	$^\circ\text{C}$
Tune Input Capacitance			20		PF
Output Impedance -			50		Ω

Comments

X Indicates parameter to be tested 100% in production

V TUNE	TUNING SENS. (MHz/V)	FREQUENCY(MHz)			POWER OUTPUT(dBm)			HARMONIC(dBc)		
		-40℃	+25℃	+85℃	-40℃	+25℃	+85℃	-40℃	2 ⁿ +25℃	+85℃
0.5	36.2	1690.6	1678.0	1670.0	-1.3	-1.4	-2.3	-11.4	-14.8	-17.9
1.0	34.1	1709.1	1696.5	1688.4	-1.3	-1.4	-2.1	-11.4	-14.7	-18.5
1.5	32.9	1726.4	1714.3	1706.0	-1.2	-1.3	-2.2	-11.1	-14.7	-18.0
2.0	32.8	1743.4	1730.9	1723.0	-1.2	-1.2	-2.0	-10.6	-14.5	-18.2
2.5	33.1	1759.6	1747.3	1739.4	-1.1	-1.2	-2.0	-11.2	-13.9	-17.6
3.0	34.1	1777.1	1764.3	1755.8	-1.3	-1.1	-1.9	-11.5	-14.6	-17.8

B6	R&S FSUP Signal Source Analyzer				LOCKED			
	Settings		Residual Noise [T1 w/o spurs]		Phase Detector +0 dB			
	Signal Frequency:	1.719584 GHz	Int PHN (1.0 k..1.0 M)	-51.8 dBc				
	Signal Level:	-1.07 dBm	Residual PM	0.207 °				
	Cross Corr Mode	Harmonic 1	Residual FM	94.88 Hz				
	Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.3346 ps				



Measurement Aborted

Date: 31.AUG.2011 12:02:25