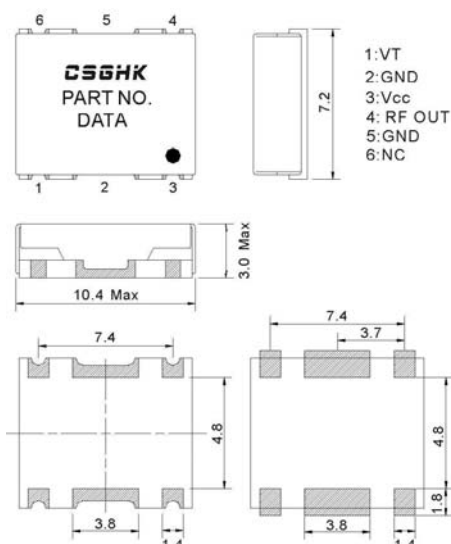


SURFACE MOUNT MODEL

VOLTAGE CONTROLLED OSCILLATOR

Frequency **1610-1650MHz**

VP1630M



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)

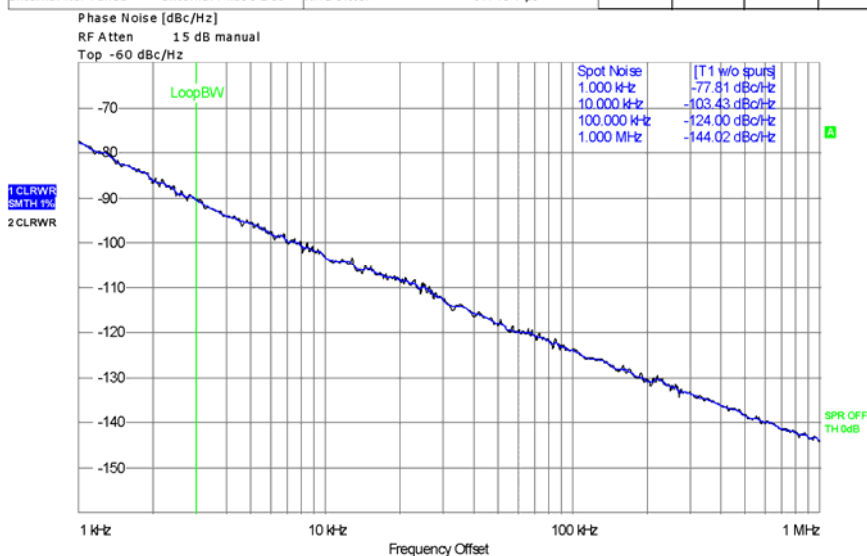
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1610		1650	MHz
Tuning Voltage (V)		0.5		3.0	V
RF Output Power	1610-1650MHz	-2.0		2.0	dBm
Supply Voltage (V _{CC})		3.0	3.3	3.6	V
Supply Current (I _{CC})			11	14	mA
Phase Noise :					
	@10kHz Offset:		-103	-100	dBc/Hz
	@100kHz Offset:		-123	-120	dBc/Hz
Average Tuning Sensitivity	1610-1650MHz		32.8		MHz/V
Harmonic Outputs			-10		dBc
Operating Temperature Range		-40		+85	°C
Tune Input Capacitance			20		PF
Output Impedance -			50		Ω
Package Type	VP(10.4X7.2X3.0mm)				

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℃	+25℃	+85℃
0.5	35.5	1604.0	1589.7	1581.4	-1.7	-1.2	-1.8	-8.7	-10.8	-12.5
1.0	32.3	1621.2	1607.3	1599.0	-1.6	-1.3	-1.8	-9.4	-10.3	-12.1
1.5	32.2	1637.0	1623.5	1615.6	-1.5	-1.2	-1.8	-9.2	-10.9	-12.3
2.0	31.9	1653.2	1639.3	1631.2	-1.6	-1.2	-1.7	-8.8	-10.5	-12.6
2.5	32.4	1669.2	1655.5	1647.0	-1.6	-1.2	-1.7	-9.3	-10.4	-12.3
3.0	31.1	1685.4	1671.7	1663.4	-1.6	-1.2	-1.8	-9.6	-10.9	-12.4

R&S FSUP Signal Source Analyzer				LOCKED			
Settings		Residual Noise [T1 w/o spurs]		Phase Detector +0 dB			
Signal Frequency:	1.630230 GHz	Int PHN (1.0 k .. 1.0 M)	-49.7 dBc				
Signal Level:	-0.64 dBm	Residual PM	0.264 °				
Cross Corr Mode	Harmonic 1	Residual FM	87.86 Hz				
Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.4494 ps				



Measurement Aborted

Date: 31.AUG.2011 16:42:11