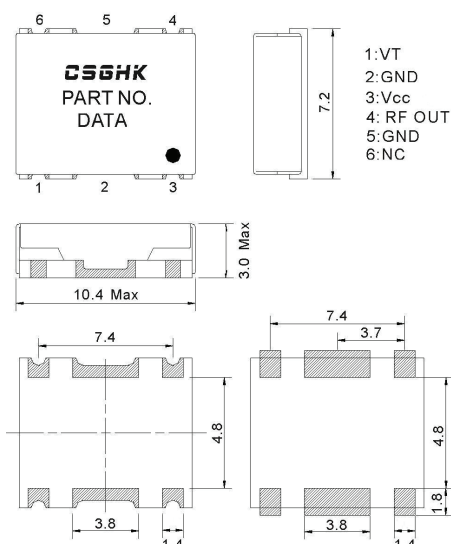


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 560-640MHz

VP600M



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)

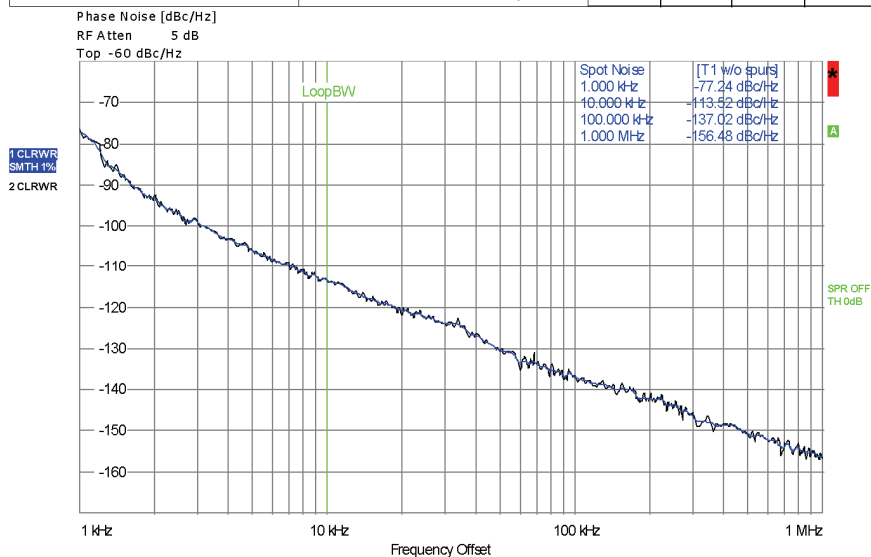
Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		560		640	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	560-640MHz	1.0		5.0	dBm
Supply Voltage (Vcc)		4.75		5.25	V
Supply Current (Icc)			17	20	mA
Phase Noise :					
	@10kHz Offset:		-110	-107	dBc/Hz
	@100kHz Offset:		-133	-130	dBc/Hz
Average Tuning Sensitivity	560-640MHz		26.0		MHz/V
Harmonic Outputs			-7		dBc
OperatingTemperature Range		-40		+85	$^{\circ}\text{C}$
Tune Input Capacitance			68		PF
Output Impedance -			50		Ω
Package Type	SK605(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	27.5	551.9	548.3	544.8	2.2	2.4	2.4	-6.4	-7.4	-9.2
1.0	26.4	564.9	561.9	559.0	2.5	2.6	2.4	-6.6	-7.5	-9.1
1.5	26.0	577.5	574.6	571.0	2.9	2.7	2.4	-6.8	-7.8	-9.1
2.0	25.6	590.3	587.5	584.8	3.1	2.8	2.5	-7.2	-8.2	-9.4
2.5	25.5	603.3	600.3	597.5	3.2	2.9	2.5	-7.5	-8.6	-9.6
3.0	26.0	616.2	613.3	610.5	3.2	3.0	2.4	-7.7	-8.9	-9.6
3.5	25.9	629.2	626.0	623.5	3.1	2.9	2.5	-8.0	-9.1	-9.9
4.0	26.2	642.6	639.3	636.4	2.8	2.8	2.5	-8.3	-9.2	-10.0
4.5	25.6	656.1	652.3	649.5	2.4	2.7	2.4	-8.5	-9.1	-10.0

R&S	R&S FSUP Signal Source Analyzer				UNLOCKED			
	Settings		Residual Noise [T1 w/o spurs]		Phase Detector +20 dB			
	Signal Frequency:	599.942261 MHz	Int PHN (1.0 k .. 1.0 M)	-53.6 dBc				
	Signal Level:	3 dBm	Residual PM	0.169 °				
	Cross Corr. Mode	Harmonic 1	Residual FM	22.031 Hz				
	Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.7834 ps				



Measurement Aborted

Date: 27.JAN.2010 13:57:57