

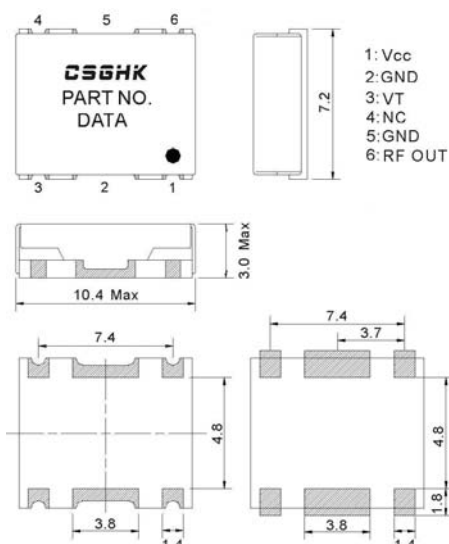


SURFACE MOUNT MODEL

VOLTAGE CONTROLLED OSCILLATOR

Frequency 276-296MHz

VP286R



FEATURES

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

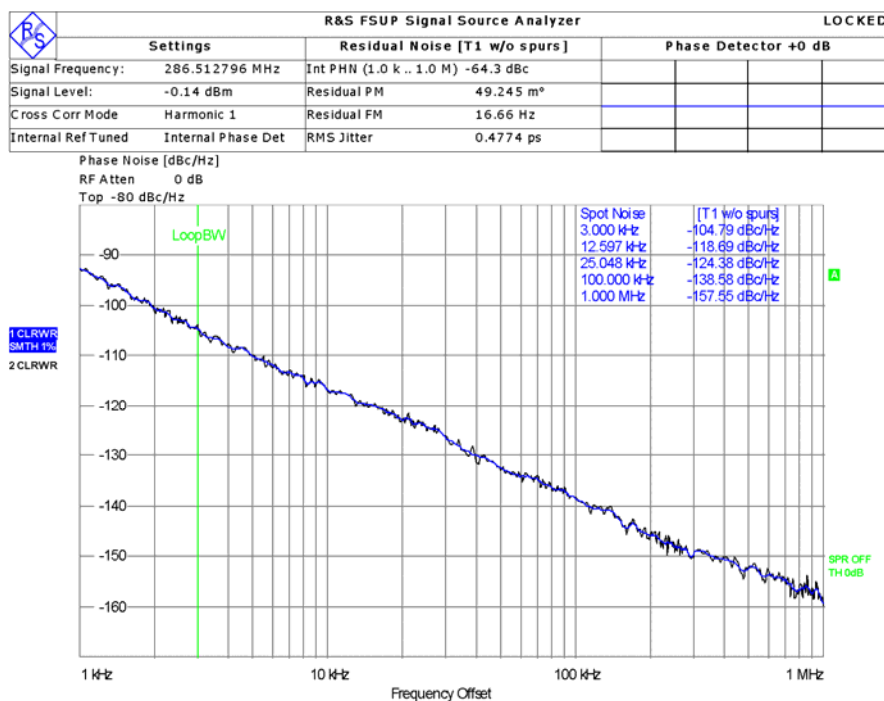
Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5.0\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		276		296	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	276-296MHz	-3.0		3.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			14	17	mA
Phase Noise :					
	@12.5kHz Offset:		-118	-115	dBc/Hz
	@100kHz Offset:		-137	-114	dBc/Hz
Average Tuning Sensitivity	276-296MHz		11.6		MHz/V
Harmonic Outputs			-10		dBc
OperatingTemperature Range		-40		+85	$^\circ\text{C}$
Tune Input Capacitance			150		PF
Output Impedance -			50		Ω

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)	-40℃	+25℃	+85℃	-40℃	+25℃	+85℃	-40℃	+25℃	+85℃
0.5	13.6	262.3	261.0	259.8	0.3	-0.1	-0.5	-8.6	-8.8	-9.5
1.0	12.0	268.8	267.5	266.0	0.6	0.2	-0.2	-9.7	-9.9	-10.3
1.5	11.5	274.5	273.0	271.8	0.8	0.4	-0.1	-10.4	-10.7	-11.2
2.0	11.2	280.5	278.8	277.5	0.8	0.4	-0.1	-10.4	-10.8	-11.5
2.5	11.1	286.3	284.3	283.0	0.7	0.3	-0.2	-9.9	-10.4	-11.3
3.0	11.7	292.3	290.3	288.5	0.5	0.1	-0.5	-9.4	-9.9	-10.6
3.5	12.0	298.5	296.0	294.5	0.1	-0.2	-0.9	-9.5	-9.8	-10.2
4.0	13.0	305.0	302.5	300.8	-0.4	-0.6	-1.2	-10.2	-10.6	-10.7
4.5	14.1	311.8	309.3	307.5	-0.9	-1.1	-1.7	-11.2	-11.3	-11.5



Measurement Aborted

Date: 26.SEP.2012 08:49:08