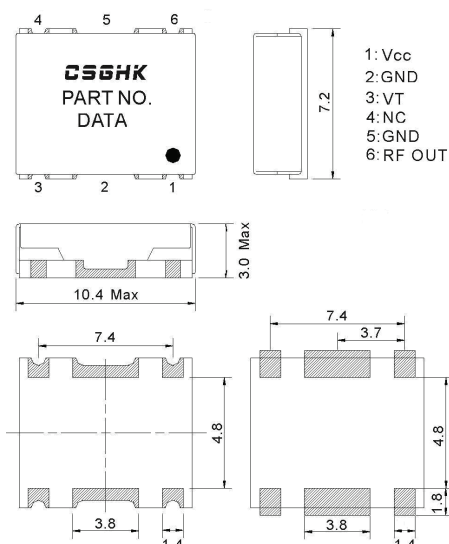


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 700-780MHz

VP740M



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		700		780	MHz
Tuning Voltage (V)		0.5		4.5	V
RF Output Power	740-780MHz	-2.0		2.0	dBm
Supply Voltage (Vcc)		4.75	5.0	5.25	V
Supply Current (Icc)			18	21	mA
Phase Noise :					
	@12.5kHz Offset:		-112	-109	dBc/Hz
	@100kHz Offset:		-133	-130	dBc/Hz
Average Tuning Sensitivity	740-780MHz		25.7		MHz/V
Harmonic Outputs			-5		dBc
Operating Temperature Range		-40		+85	$^\circ\text{C}$
Tune Input Capacitance			47		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)		
								2 ⁿ		
		-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
0.5	29.9	691.4	688.0	685.0	1.5	1.4	0.9	-8.5	-9.3	-11.1
1.0	26.9	706.0	702.2	699.4	1.7	1.6	0.9	-8.2	-9.3	-11.2
1.5	26.0	719.0	715.2	712.8	1.8	1.7	1.0	-8.4	-9.5	-11.3
2.0	25.0	731.6	728.0	725.4	1.7	1.6	0.9	-8.5	-9.8	-11.5
2.5	24.7	744.0	740.8	738.0	1.7	1.4	0.8	-8.6	-10.2	-12.0
3.0	25.5	756.8	753.0	750.4	1.4	1.2	0.7	-8.9	-10.3	-12.2
3.5	25.0	769.4	765.8	762.8	1.0	1.0	0.6	-9.3	-11.0	-12.5
4.0	25.1	782.2	778.2	775.0	0.4	0.7	0.4	-10.0	-11.6	-12.7
4.5	25.0	795.2	790.8	787.6	0.0	0.4	0.3	-10.7	-11.9	-13.1

Phase Noise [dBc/Hz]

RF Atten 5 dB

Top -70 dBc/Hz

