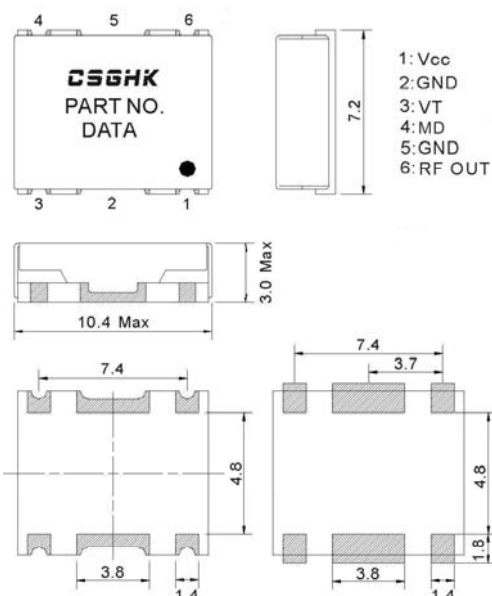


SURFACE MOUNT MODEL VOLTAGE CONTROLLED OSCILLATOR

Frequency 1360-1400MHz

U1380MT



FEATURES

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

Electrical Specifications, T_A = +25°C, V_{CC} = +5.0V (unless otherwise stated)

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency Rangs		1360		1400	MHz
Tuning Voltage (V)		0.8		4.2	V
RF Output Power	1360-1400MHz	0.0		4.0	dBm
Supply Voltage (V _{CC})		4.75	5.0	5.25	V
Supply Current (I _{CC})			17	20	mA
Phase Noise :					
	@10kHz Offset:		-107	-104	dBc/Hz
	@100kHz Offset:		-128	-125	dBc/Hz
Average Tuning Sensitivity	1360-1400MHz		25.2		MHz/V
Modulation deviation	@Freq:1kHz Ampl:3.3V	±1.5			MHz
Harmonic Outputs			-10		dBc
Operating Temperature Range		-40		+85	°C
Tune Input Capacitance			22		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℃	+25℃	+85℃
0.8	30.2	1342.4	1335.0	1320.6	2.6	2.0	1.1	-10.6	-13.6	-17.1
1.0	28.2	1348.0	1341.0	1335.0	2.6	2.0	1.2	-10.6	-13.6	-17.9
1.5	26.8	1362.0	1354.3	1348.2	2.5	2.0	1.3	-10.9	-13.8	-18.0
2.0	25.7	1375.4	1367.0	1360.8	2.4	2.0	1.2	-11.4	-14.0	-18.2
2.5	24.8	1388.6	1379.7	1373.2	2.2	2.0	1.3	-11.6	-14.1	-18.6
3.0	25.2	1401.2	1392.0	1386.2	2.1	2.0	1.1	-11.8	-14.1	-19.1
3.5	23.9	1413.6	1404.5	1398.8	2.1	2.1	0.9	-11.9	-14.3	-19.3
4.0	23.3	1425.4	1416.5	1411.4	2.0	2.0	0.9	-12.1	-14.2	-20.0
4.2	22.2	1430.0	1421.0	1416.0	1.9	1.9	0.8	-12.2	-14.2	-20.6

Phase Noise [dBc/Hz]

RF Atten 5 dB

Top -70 dBc/Hz

