

Voltage Controlled Oscillator

ROS-4000-419R+

Typical Performance Data

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ OFFSET (kHz)	PHASE NOISE (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	F2	F3	F4			
0.0	30.7	3801.0	3780.1	3770.0	5.9	5.2	3.8	-26.6	-28.7	-39.3	0.2	1	-74
0.5	27.3	3815.6	3795.4	3785.7	5.9	5.1	3.8	-26.6	-31.2	-38.4	0.1	10	-99
1.0	26.0	3828.9	3809.1	3799.5	5.9	5.1	3.8	-26.7	-30.4	-37.5	0.1	100	-120
1.5	25.7	3841.7	3822.1	3812.5	5.9	5.1	3.8	-26.4	-32.1	-39.9	0.1	1000	-140
2.0	25.7	3854.4	3834.9	3825.3	5.9	5.1	3.8	-26.4	-30.8	-38.9	0.1		
2.5	26.2	3867.4	3847.8	3838.2	5.9	5.1	3.8	-26.2	-31.5	-39.9	0.1		
3.0	27.3	3881.0	3860.9	3851.2	5.9	5.1	3.8	-25.9	-32.4	-39.0	0.1		
3.5	28.7	3895.2	3874.5	3864.6	5.8	5.1	3.8	-26.4	-32.8	-38.5	0.1		
4.0	29.4	3909.4	3888.9	3878.6	5.7	5.0	3.7	-26.0	-33.4	-40.0	0.2		
4.5	29.2	3923.5	3903.6	3893.3	5.8	4.9	3.5	-25.8	-33.4	-38.8	0.2		
5.0	29.2	3937.9	3918.2	3908.1	5.9	4.9	3.5	-26.6	-33.7	-38.8	0.2		
5.5	30.0	3952.9	3932.8	3922.8	5.9	5.0	3.5	-26.3	-34.6	-39.3	0.2		
6.0	31.0	3968.3	3947.9	3937.5	5.9	5.0	3.5	-26.3	-33.5	-38.7	0.2		
6.5	31.3	3983.9	3963.4	3952.8	5.9	5.0	3.5	-26.8	-32.3	-39.3	0.2		
7.0	31.3	3999.5	3979.0	3968.4	5.9	5.0	3.4	-26.6	-34.6	-40.0	0.3		
7.5	31.4	4015.3	3994.7	3984.0	5.9	5.0	3.4	-26.9	-33.9	-40.8	0.3		
8.0	31.1	4030.8	4010.4	3999.6	5.9	4.9	3.3	-26.8	-31.6	-41.8	0.3		
8.5	30.1	4046.0	4025.9	4015.1	5.9	4.9	3.3	-26.8	-33.7	-43.1	0.3		
9.0	29.2	4061.2	4041.0	4030.2	5.9	4.9	3.2	-26.8	-31.0	-44.5	0.3		
9.5	28.6	4076.2	4055.6	4044.8	5.9	4.9	3.2	-26.3	-31.4	-47.0	0.3		
10.0	27.6	4090.7	4069.9	4058.9	5.9	4.9	3.2	-27.4	-31.1	-50.3	0.3		
10.5	26.1	4104.5	4083.7	4072.6	5.9	4.9	3.2	-27.2	-31.1	-52.6	0.3		
11.0	24.5	4117.7	4096.8	4085.7	5.8	4.9	3.2	-26.4	-30.3	-55.4	0.3		
11.5	22.9	4130.2	4109.0	4097.9	5.8	4.9	3.2	-27.0	-29.2	-55.5	0.3		
12.0	22.9	4141.6	4120.5	4109.2	5.8	4.9	3.1	-27.4	-31.1	-53.3	0.3		

Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCULStore/terms.jsp

