

# Voltage Controlled Oscillator

# ROS-800-719R+

## 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			
0.00	16.3	780.5	777.9	775.9	0.2	0.0	-0.5	-23.5	-45.6	-37.2	1.3	1	-93
0.25	13.8	784.4	782.0	780.2	0.3	0.1	-0.4	-23.9	-45.8	-36.2	1.2	10	-118
0.50	11.7	787.7	785.4	783.7	0.3	0.1	-0.4	-24.1	-41.4	-36.0	0.9	100	-140
0.75	10.4	790.5	788.3	786.7	0.3	0.1	-0.3	-24.2	-39.5	-36.0	0.6	1000	-162
1.00	9.6	793.1	790.9	789.3	0.4	0.1	-0.3	-24.3	-38.3	-35.8	0.5		
1.25	8.9	795.5	793.3	791.8	0.4	0.1	-0.3	-24.4	-37.5	-35.8	0.4		
1.50	8.5	797.7	795.6	794.0	0.4	0.2	-0.3	-24.5	-37.1	-35.4	0.3		
1.75	8.1	799.8	797.7	796.2	0.4	0.2	-0.3	-24.6	-36.3	-35.3	0.2		
2.00	7.8	801.8	799.7	798.2	0.4	0.2	-0.3	-24.6	-35.7	-35.1	0.2		
2.25	7.6	803.8	801.7	800.2	0.5	0.2	-0.3	-24.7	-35.2	-34.8	0.2		
2.50	7.4	805.7	803.6	802.1	0.5	0.2	-0.3	-24.9	-34.5	-34.8	0.1		
2.75	7.2	807.5	805.4	803.9	0.5	0.2	-0.3	-25.0	-34.0	-34.7	0.1		
3.00	7.1	809.3	807.2	805.7	0.5	0.2	-0.3	-25.2	-33.4	-34.8	0.1		
3.25	7.0	811.1	809.0	807.5	0.5	0.2	-0.2	-25.3	-33.0	-34.9	0.1		
3.50	6.9	812.9	810.7	809.2	0.6	0.2	-0.2	-25.5	-32.5	-35.1	0.1		
3.75	6.8	814.6	812.5	811.0	0.6	0.3	-0.2	-25.6	-32.2	-35.2	0.0		
4.00	6.8	816.3	814.2	812.7	0.6	0.3	-0.2	-25.7	-31.7	-35.1	0.0		
4.25	6.7	818.0	815.9	814.4	0.6	0.3	-0.2	-25.7	-31.4	-35.1	0.0		
4.50	6.7	819.7	817.5	816.1	0.6	0.3	-0.2	-25.9	-31.2	-34.9	0.0		
4.75	6.7	821.4	819.2	817.7	0.6	0.3	-0.2	-25.9	-30.9	-34.7	0.0		
5.00	6.6	823.1	820.9	819.4	0.7	0.3	-0.2	-26.1	-30.7	-34.8	0.0		
5.25	6.6	824.7	822.5	821.0	0.7	0.3	-0.2	-26.2	-30.6	-34.6	0.0		
5.50	6.6	826.4	824.2	822.7	0.7	0.3	-0.2	-26.2	-30.4	-34.5	0.0		
5.75	6.6	828.1	825.8	824.4	0.7	0.3	-0.2	-26.3	-30.3	-34.4	0.0		
6.00	6.6	829.7	827.5	826.0	0.7	0.3	-0.2	-26.3	-30.1	-34.5	0.0		
6.25	6.6	831.4	829.1	827.6	0.7	0.4	-0.1	-26.4	-30.1	-34.5	0.0		
6.50	6.5	833.0	830.8	829.3	0.7	0.4	-0.1	-26.4	-30.0	-34.6	0.0		
6.75	6.5	834.6	832.4	830.9	0.7	0.4	-0.1	-26.4	-30.0	-34.6	0.1		
7.00	6.5	836.3	834.0	832.5	0.7	0.4	-0.1	-26.5	-29.9	-34.7	0.1		

**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/MCStore/terms.jsp](http://www.minicircuits.com/MCStore/terms.jsp)

