

# Voltage Controlled Oscillator

# ROS-3800-119R+

## 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	214.3	1770.9	1722.4	1681.7	6.6	6.6	6.4	-16.1	-25.8	-35.5	1.0	1	-61
0.50	190.6	1875.1	1829.6	1789.4	6.7	6.6	6.0	-16.1	-25.0	-41.5	0.5	10	-88
1.00	173.3	1964.8	1924.9	1889.5	6.4	6.4	5.9	-16.8	-25.5	-50.4	0.3	100	-110
1.50	162.2	2049.2	2011.5	1980.3	6.2	6.1	5.8	-18.2	-26.6	-54.5	0.5	1000	-130
2.00	153.3	2128.6	2092.6	2063.7	6.0	5.8	5.6	-17.9	-25.9	-68.7	0.7		
2.50	146.1	2204.3	2169.3	2141.7	5.9	5.7	5.5	-21.2	-25.1	-59.2	0.9		
3.00	140.0	2276.7	2242.3	2216.1	5.9	5.5	5.3	-22.7	-23.8	-52.1	1.1		
3.50	137.3	2345.3	2312.3	2287.4	5.7	5.4	5.1	-24.2	-23.8	-51.0	1.2		
4.00	144.5	2414.1	2381.0	2356.6	5.6	5.3	4.9	-24.0	-27.4	-54.5	2.0		
4.50	142.7	2487.3	2453.2	2428.0	6.2	5.2	4.7	-26.1	-39.7	-47.2	3.1		
5.00	138.7	2558.4	2524.6	2499.0	6.5	5.4	4.8	-25.0	-38.6	-42.3	3.2		
5.50	135.2	2626.8	2593.9	2568.2	6.5	5.7	4.9	-24.9	-35.8	-40.7	3.1		
6.00	132.9	2693.5	2661.5	2636.1	6.5	5.8	4.9	-24.7	-36.2	-44.9	3.0		
6.50	130.8	2759.3	2728.0	2702.9	6.4	5.9	5.1	-24.3	-35.5	-41.5	3.0		
7.00	129.5	2824.7	2793.4	2768.9	6.6	5.9	5.2	-23.9	-36.6	-39.3	3.1		
7.50	128.9	2888.8	2858.1	2834.5	6.5	6.0	5.5	-22.5	-38.6	-41.5	3.3		
8.00	126.1	2952.6	2922.6	2898.9	6.7	6.2	5.5	-22.4	-38.9	-40.0	3.6		
8.50	124.3	3016.0	2985.7	2962.4	6.9	6.3	5.8	-21.0	-40.1	-37.8	4.1		
9.00	122.9	3077.6	3047.8	3025.5	6.9	6.5	6.1	-19.9	-41.4	-40.4	4.7		
9.50	117.5	3137.9	3109.3	3086.8	7.2	6.6	6.2	-19.9	-42.8	-39.1	5.4		
10.00	114.9	3196.8	3168.0	3146.7	7.2	6.8	6.4	-19.2	-47.8	-42.4	6.5		
10.50	110.3	3253.0	3225.5	3205.3	7.3	6.8	6.4	-20.0	-53.5	-44.0	7.3		
11.00	104.1	3307.1	3280.6	3260.9	7.4	6.9	6.6	-20.1	-46.8	-43.3	8.4		
11.50	100.3	3358.3	3332.7	3314.5	7.4	7.0	6.6	-20.9	-38.8	-46.6	9.0		
12.00	91.6	3406.8	3382.8	3364.6	7.3	6.9	6.6	-21.8	-32.1	-42.3	10.0		
12.50	89.1	3453.7	3428.6	3412.0	7.2	6.9	6.6	-23.9	-33.0	-42.9	9.7		
13.00	79.7	3496.0	3473.1	3456.8	7.3	6.9	6.5	-25.3	-35.6	-40.7	9.1		
13.50	76.8	3537.0	3513.0	3497.9	7.1	6.8	6.5	-28.2	-38.1	-41.7	8.8		
14.00	69.7	3573.7	3551.4	3537.3	7.1	6.7	6.4	-30.1	-38.0	-42.1	7.4		
14.5	66.3	3607.8	3586.3	3573.5	7.1	6.7	6.3	-32.7	-37.7	-44.8	5.9		
15.5	57.8	3668.7	3650.6	3638.4	7.0	6.5	6.1	-36.7	-38.1	-44.8	3.3		
16.0	53.9	3697.5	3679.5	3667.9	6.8	6.4	6.0	-35.4	-37.0	-46.5	2.5		
17.0	47.0	3752.9	3731.6	3716.7	6.5	6.1	5.8	-31.1	-36.5	-51.2	1.9		
17.5	40.3	3777.1	3755.1	3738.5	6.3	6.0	5.6	-30.8	-35.9	-53.3	1.8		
18.5	33.5	3819.1	3793.1	3776.2	6.0	5.8	5.5	-29.2	-35.0	-61.2	1.6		
19.0	32.8	3836.4	3809.8	3792.1	6.0	5.7	5.5	-28.7	-36.3	-63.1	1.6		
20.0	26.5	3867.4	3840.1	3820.8	5.7	5.6	5.3	-29.1	-34.7	-62.9	1.5		
20.5	25.1	3881.1	3853.4	3834.3	5.7	5.5	5.3	-28.7	-35.6	-61.7	1.5		
21.5	21.8	3904.5	3877.4	3857.2	5.6	5.3	5.2	-28.4	-36.2	-60.9	1.4		
22.0	21.8	3915.0	3888.3	3868.1	5.5	5.3	5.1	-28.8	-34.0	-55.9	1.4		

**Notes**

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