

# Voltage Controlled Oscillator

# ROS-3960-119+

## 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	8.19	3633.4	3627.2	3626.6	5.00	4.48	3.75	-25.86	-22.69	-59.91	0.21	1	-70.85
0.5	7.56	3637.2	3631.3	3630.9	5.07	4.58	3.83	-26.08	-21.61	-57.53	0.20	10	-97.27
1.0	7.47	3640.7	3635.1	3634.7	5.13	4.68	3.92	-26.46	-21.27	-52.45	0.19	100	-118.72
1.5	7.70	3644.2	3638.8	3638.5	5.20	4.77	4.02	-27.02	-21.81	-55.23	0.17	1000	-138.83
2.0	8.33	3648.0	3642.7	3642.4	5.27	4.85	4.12	-27.96	-22.85	-59.96	0.15		
2.5	9.38	3652.3	3646.8	3646.5	5.34	4.94	4.22	-29.22	-23.88	-62.15	0.13		
3.0	10.87	3657.2	3651.5	3651.1	5.40	5.03	4.33	-30.49	-24.52	-64.24	0.13		
3.5	12.77	3662.8	3657.0	3656.5	5.44	5.12	4.42	-31.52	-24.50	-62.55	0.12		
4.0	14.94	3669.4	3663.3	3662.8	5.49	5.20	4.51	-32.10	-23.52	-56.74	0.10		
4.5	17.16	3676.9	3670.8	3670.3	5.49	5.27	4.60	-32.33	-21.80	-66.45	0.09		
5.0	19.39	3685.6	3679.4	3679.0	5.43	5.28	4.65	-32.41	-23.66	-69.97	0.05		
5.5	21.34	3695.4	3689.1	3688.7	5.39	5.23	4.63	-33.10	-25.99	-63.68	0.01		
6.0	22.74	3705.9	3699.8	3699.4	5.38	5.19	4.59	-34.87	-24.55	-77.43	0.08		
6.5	23.81	3717.1	3711.1	3710.7	5.43	5.16	4.54	-39.95	-22.12	-82.49	0.15		
7.0	25.24	3729.1	3723.0	3722.6	5.58	5.18	4.54	-41.72	-26.08	-81.33	0.22		
7.5	27.44	3742.2	3735.6	3735.0	5.89	5.36	4.66	-37.88	-26.33	-69.19	0.29		
8.0	29.90	3756.3	3749.4	3748.5	6.29	5.70	4.92	-38.52	-23.51	-69.03	0.36		
8.5	32.38	3771.9	3764.3	3763.1	6.50	6.09	5.31	-36.09	-27.76	-57.74	0.42		
9.0	33.14	3788.1	3780.5	3779.0	6.41	6.21	5.52	-33.63	-23.88	-62.95	0.43		
9.5	33.05	3804.5	3797.1	3795.4	6.20	6.05	5.44	-31.79	-28.13	-59.58	0.46		
10.0	34.21	3821.3	3813.6	3811.6	6.20	5.85	5.23	-31.76	-25.73	-55.43	0.49		
10.5	36.40	3839.5	3830.7	3828.3	6.52	5.91	5.19	-28.88	-26.93	-58.45	0.53		
11.0	38.95	3858.7	3848.9	3845.6	7.06	6.30	5.44	-27.28	-25.85	-57.48	0.56		
11.5	40.55	3879.2	3868.4	3864.1	7.29	6.80	5.89	-27.13	-27.79	-55.71	0.59		
12.0	39.09	3899.3	3888.7	3883.8	7.02	6.88	6.16	-27.75	-23.63	-48.85	0.57		
12.5	38.60	3919.3	3908.2	3903.3	6.94	6.62	5.99	-25.53	-27.28	-47.30	0.57		
13.0	39.60	3939.8	3927.5	3922.0	7.23	6.57	5.82	-24.84	-21.19	-50.64	0.59		
13.5	41.57	3961.2	3947.3	3940.7	7.68	6.86	5.94	-23.34	-28.08	-56.60	0.60		
14.0	41.19	3982.7	3968.1	3960.2	7.88	7.27	6.27	-23.02	-23.05	-67.16	0.59		
14.5	38.68	4003.2	3988.7	3980.4	7.71	7.44	6.56	-22.84	-30.15	-81.68	0.56		
15.0	36.52	4022.6	4008.0	4000.0	7.55	7.28	6.58	-22.03	-28.58	-73.38	0.52		
15.5	37.28	4042.6	4026.3	4018.0	7.64	7.12	6.38	-21.14	-29.62	-71.28	0.51		
16.0	36.86	4061.7	4044.9	4035.8	8.03	7.19	6.23	-20.12	-27.04	-70.44	0.52		
16.5	34.97	4080.5	4063.4	4053.6	8.29	7.49	6.38	-19.42	-30.28	-69.16	0.46		
17.0	33.50	4098.1	4080.8	4070.6	8.30	7.73	6.64	-20.15	-28.03	-65.81	0.43		
17.5	30.54	4114.7	4097.6	4087.3	8.11	7.78	6.83	-19.75	-29.69	-64.99	0.37		
18.0	30.54	4130.9	4112.9	4103.2	7.97	7.67	6.82	-18.70	-24.23	-67.65	0.34		

