

# Voltage Controlled Oscillator

ROS-ED10118/1

## 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			
0.1	11.74	454.0	451.9	449.9	-1.61	-1.91	-2.09	-14.6	-34.0	-31.3	0.18	1 10 100 1000	-87 -110 -130 -150
0.3	11.39	455.5	453.3	451.3	-1.61	-1.85	-2.09	-14.7	-33.3	-30.8	0.14		
0.4	11.06	456.9	454.7	452.6	-1.61	-1.85	-2.04	-14.7	-33.9	-30.7	0.12		
0.5	10.95	458.3	456.0	454.0	-1.54	-1.84	-2.03	-14.8	-34.1	-30.6	0.10		
0.6	10.82	459.7	457.4	455.3	-1.54	-1.84	-2.03	-14.8	-34.9	-30.6	0.07		
0.8	10.88	461.1	458.8	456.6	-1.54	-1.76	-2.02	-14.8	-34.4	-30.3	0.06		
0.9	11.06	462.5	460.1	458.0	-1.60	-1.76	-1.96	-14.9	-34.8	-30.4	0.05		
1.0	11.13	464.0	461.5	459.3	-1.61	-1.75	-1.95	-15.0	-35.3	-30.3	0.02		
1.1	11.43	465.5	463.0	460.7	-1.60	-1.81	-1.94	-15.1	-35.4	-30.2	0.01		
1.3	11.67	467.0	464.4	462.1	-1.60	-1.81	-1.94	-15.2	-35.1	-30.1	0.00		
1.4	12.01	468.6	465.9	463.6	-1.46	-1.80	-2.00	-15.1	-35.7	-30.1	0.01		
1.5	12.27	470.2	467.5	465.1	-1.46	-1.80	-2.00	-15.1	-35.9	-30.0	0.02		
1.6	12.58	471.8	469.0	466.6	-1.47	-1.65	-1.99	-15.2	-36.7	-29.7	0.02		
1.8	13.02	473.5	470.7	468.2	-1.45	-1.65	-1.84	-15.3	-36.4	-29.6	0.01		
1.9	13.25	475.3	472.3	469.8	-1.45	-1.65	-1.84	-15.4	-36.9	-29.5	0.00		
2.0	13.55	477.0	474.0	471.4	-1.46	-1.63	-1.84	-15.4	-36.5	-29.1	0.02		
2.1	13.79	478.8	475.7	473.1	-1.68	-1.63	-1.82	-15.5	-37.3	-29.0	0.07		
2.3	13.90	480.6	477.5	474.8	-1.69	-1.63	-1.82	-15.5	-37.6	-29.0	0.13		
2.4	14.03	482.4	479.2	476.5	-1.71	-1.85	-1.82	-15.6	-37.5	-28.8	0.20		
2.5	14.08	484.2	481.0	478.3	-1.53	-1.85	-2.04	-15.6	-38.6	-28.7	0.29		
2.6	14.06	485.9	482.7	480.0	-1.54	-1.66	-2.04	-15.7	-39.4	-28.2	0.38		
2.8	13.89	487.7	484.5	481.7	-1.57	-1.67	-2.04	-15.7	-39.7	-28.3	0.49		
2.9	13.75	489.4	486.2	483.4	-1.58	-1.68	-1.86	-15.9	-40.1	-28.3	0.59		
3.0	13.50	491.1	487.9	485.1	-1.60	-1.70	-1.86	-16.0	-40.4	-28.1	0.71		
3.1	13.24	492.8	489.5	486.8	-1.65	-1.71	-1.87	-16.0	-41.8	-27.9	0.81		
3.3	12.99	494.4	491.2	488.4	-1.66	-1.72	-1.89	-16.0	-42.1	-27.9	0.92		
3.4	12.50	495.9	492.7	490.0	-1.67	-1.77	-1.90	-16.1	-43.0	-27.8	1.02		
3.5	12.18	497.5	494.2	491.5	-1.67	-1.77	-1.90	-16.2	-43.0	-27.7	1.10		
3.6	11.72	498.9	495.7	493.0	-1.73	-1.77	-1.95	-16.4	-44.0	-27.6	1.18		
3.8	11.32	500.3	497.1	494.4	-1.73	-1.77	-1.95	-16.5	-43.2	-27.5	1.24		
3.9	10.86	501.7	498.5	495.8	-1.73	-1.82	-1.95	-16.6	-43.8	-27.3	1.31		
4.0	10.42	503.0	499.8	497.1	-1.76	-1.82	-1.96	-16.7	-44.5	-27.2	1.36		
4.1	10.01	504.2	501.0	498.4	-1.75	-1.81	-2.00	-16.7	-44.5	-27.2	1.39		
4.3	9.52	505.4	502.2	499.5	-1.74	-1.80	-2.00	-16.9	-44.8	-27.2	1.41		
4.4	9.01	506.6	503.4	500.7	-1.73	-1.83	-1.99	-16.9	-44.4	-27.3	1.41		
4.5	8.61	507.6	504.4	501.7	-1.81	-1.82	-1.98	-17.1	-44.3	-27.2	1.41		
4.6	8.07	508.7	505.4	502.7	-1.80	-1.81	-2.01	-17.2	-44.2	-27.3	1.39		
4.8	7.66	509.6	506.4	503.7	-1.78	-1.79	-2.00	-17.2	-45.3	-27.1	1.36		
4.9	7.16	510.5	507.3	504.6	-1.77	-1.78	-1.98	-17.3	-44.3	-27.1	1.32		
5.0	6.71	511.4	508.1	505.4	-1.75	-1.85	-1.97	-17.4	-44.6	-27.2	1.27		

