

Voltage Controlled Oscillator

POS-50+

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	3.28	21.9	21.1	20.3	6.31	6.48	6.17	-15.7	-30.0	-39.1	0.00	1	-90
0.5	2.49	23.3	22.7	22.1	7.18	7.63	7.54	-17.0	-31.1	-40.2	0.02	10	-113
1.0	2.45	24.5	23.9	23.6	7.96	8.68	8.76	-18.1	-31.5	-40.4	0.02	100	-133
1.5	2.45	25.9	25.2	24.7	8.69	9.41	9.54	-18.5	-31.6	-39.9	0.09	1000	-156
2.0	2.18	27.1	26.4	26.0	8.92	9.51	9.62	-18.8	-32.4	-38.9	0.04		
2.5	2.04	28.1	27.5	27.0	8.96	9.53	9.63	-19.0	-32.8	-38.2	0.02		
3.0	1.97	29.1	28.5	28.1	8.96	9.52	9.61	-19.2	-32.9	-37.6	0.00		
3.5	1.94	30.0	29.5	29.0	8.93	9.49	9.57	-19.2	-32.8	-37.2	0.01		
4.0	1.93	31.0	30.5	30.0	8.89	9.44	9.52	-19.8	-32.5	-36.8	0.02		
4.5	1.94	31.9	31.4	31.0	8.84	9.38	9.45	-20.1	-32.2	-36.5	0.03		
5.0	1.97	32.8	32.4	31.9	8.78	9.30	9.37	-20.0	-31.8	-36.3	0.04		
5.5	1.99	33.8	33.4	32.9	8.72	9.22	9.29	-20.8	-31.4	-36.1	0.04		
6.0	2.02	34.8	34.4	33.9	8.64	9.13	9.19	-20.7	-31.0	-35.9	0.05		
6.5	2.04	35.8	35.4	34.9	8.56	9.03	9.08	-21.7	-30.6	-35.8	0.05		
7.0	2.06	36.8	36.4	35.9	8.48	8.92	8.97	-22.1	-30.2	-35.7	0.05		
7.5	2.06	37.8	37.4	37.0	8.39	8.81	8.85	-22.0	-29.8	-35.6	0.05		
8.0	2.06	38.8	38.5	38.0	8.30	8.69	8.72	-23.2	-29.5	-35.5	0.05		
8.5	2.05	39.8	39.5	39.0	8.21	8.57	8.59	-23.1	-29.2	-35.4	0.05		
9.0	2.03	40.8	40.5	40.1	8.11	8.45	8.46	-24.4	-28.9	-35.3	0.05		
9.5	2.00	41.8	41.5	41.1	8.01	8.32	8.32	-25.0	-28.6	-35.3	0.05		
10.0	1.98	42.8	42.5	42.1	7.90	8.19	8.18	-25.7	-28.4	-35.2	0.05		
10.5	1.95	43.8	43.5	43.1	7.79	8.06	8.04	-25.5	-28.2	-35.2	0.05		
11.0	1.93	44.7	44.5	44.1	7.68	7.92	7.89	-26.2	-28.0	-35.1	0.05		
11.5	1.92	45.7	45.5	45.1	7.56	7.79	7.75	-27.8	-27.8	-35.1	0.05		
12.0	1.92	46.7	46.4	46.1	7.44	7.65	7.60	-27.6	-27.7	-35.1	0.05		
12.5	1.93	47.6	47.4	47.0	7.31	7.51	7.45	-29.4	-27.6	-35.0	0.05		
13.0	1.95	48.6	48.4	48.0	7.18	7.37	7.30	-30.3	-27.4	-35.0	0.05		
13.5	1.98	49.6	49.3	49.0	7.04	7.23	7.15	-31.3	-27.3	-35.0	0.05		
14.0	2.02	50.7	50.3	50.0	6.90	7.07	6.99	-31.1	-27.2	-34.9	0.04		
14.5	2.07	51.7	51.3	51.0	6.74	6.92	6.83	-33.7	-27.1	-35.0	0.04		
15.0	2.12	52.9	52.4	52.1	6.58	6.76	6.67	-33.5	-27.0	-35.0	0.03		
15.5	2.17	54.0	53.4	53.1	6.41	6.60	6.51	-35.0	-26.8	-34.9	0.01		
16.0	2.22	55.2	54.5	54.2	6.24	6.44	6.34	-36.8	-26.7	-35.0	0.02		
16.5	2.27	56.4	55.6	55.3	6.06	6.27	6.18	-41.7	-26.6	-35.1	0.07		
17.0	2.32	57.6	56.8	56.4	5.89	6.10	6.01	-41.5	-26.5	-35.0	0.13		
17.5	2.34	58.8	57.9	57.6	5.72	5.92	5.84	-44.4	-26.4	-35.1	0.19		
18.0	2.34	60.1	59.1	58.7	5.54	5.75	5.67	-44.3	-26.3	-35.1	0.26		

REV. X2
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