

Voltage Controlled Oscillator

ZX95-4650+

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	71.31	4060.9	4035.0	4023.3	-0.05	-0.89	-2.47	-27.85	-30.58	-49.36	1.28	1	-71
0.25	64.70	4077.8	4052.8	4040.9	-0.14	-0.84	-2.14	-27.73	-30.28	-46.97	1.41	10	-96
1.00	52.23	4122.7	4099.7	4088.3	0.08	-0.88	-1.76	-27.24	-29.90	-41.68	1.63	100	-118
1.50	49.36	4148.6	4125.8	4114.2	-0.08	-0.62	-1.47	-27.15	-29.88	-42.80	1.73	1000	-137
2.00	46.44	4172.6	4150.5	4138.7	0.14	-0.78	-1.31	-26.73	-30.98	-41.17	1.77		
2.50	46.79	4196.2	4173.7	4162.0	0.25	-0.58	-1.34	-26.78	-32.37	-41.36	1.84		
3.00	45.41	4218.9	4197.1	4185.0	0.17	-0.50	-1.18	-26.98	-32.61	-42.22	1.89		
3.50	46.99	4242.2	4219.8	4208.0	0.49	-0.55	-1.21	-26.60	-34.18	-43.28	1.84		
4.00	49.62	4266.4	4243.3	4230.5	0.39	-0.24	-1.07	-27.10	-35.47	-45.08	1.98		
4.50	50.53	4291.1	4268.1	4254.7	0.28	-0.31	-0.80	-27.10	-36.03	-45.23	2.06		
5.00	53.60	4317.0	4293.4	4280.0	0.66	-0.49	-0.78	-26.44	-37.43	-44.99	1.95		
5.50	57.18	4345.1	4320.2	4305.6	0.75	-0.04	-0.72	-26.89	-40.90	-43.32	2.12		
6.00	57.61	4373.9	4348.8	4333.3	0.82	0.04	-0.54	-26.44	-44.70	-43.54	2.14		
6.50	59.88	4404.1	4377.6	4361.9	0.77	0.16	-0.53	-27.94	-48.81	-43.28	2.04		
7.00	58.68	4433.9	4407.5	4390.5	0.66	0.10	-0.25	-27.75	-50.51	-42.93	2.09		
7.50	59.92	4464.5	4436.9	4419.9	0.78	0.07	-0.26	-27.85	-44.51	-44.67	2.04		
8.00	59.34	4494.8	4466.8	4448.6	0.81	0.31	-0.17	-29.57	-41.76	-45.68	2.07		
8.50	58.79	4524.5	4496.5	4478.1	0.90	0.35	-0.03	-29.38	-39.93	-38.09	2.16		
9.00	58.96	4554.2	4525.9	4507.2	0.86	0.43	0.08	-28.09	-40.04	-36.51	2.28		
9.50	60.01	4584.7	4555.4	4536.5	1.05	0.39	0.17	-27.61	-40.02	-36.78	2.18		
10.00	59.43	4615.1	4585.4	4565.6	0.86	0.71	0.14	-27.33	-39.65	-39.05	2.30		
10.50	57.82	4644.5	4615.1	4595.3	0.82	0.50	0.38	-25.88	-41.51	-39.49	2.38		
11.00	59.46	4674.8	4644.0	4624.6	0.88	0.43	0.43	-26.82	-41.94	-41.66	2.28		
11.50	58.50	4704.8	4673.8	4653.3	1.01	0.55	0.41	-26.91	-42.42	-40.87	2.19		
12.00	56.96	4734.0	4703.0	4682.5	0.94	0.61	0.43	-25.30	-45.46	-40.97	2.23		
12.50	57.64	4763.4	4731.5	4710.9	0.71	0.60	0.41	-26.03	-43.29	-42.47	2.13		
13.00	54.47	4793.4	4760.3	4738.3	0.86	0.33	0.46	-24.47	-40.32	-50.20	1.86		
13.50	49.90	4820.8	4787.5	4765.6	0.86	0.43	0.25	-23.10	-38.22	-53.84	1.88		
14.00	47.64	4846.8	4812.5	4790.8	0.76	0.49	0.27	-23.58	-38.00	-45.41	1.43		
14.50	43.78	4870.9	4836.3	4814.1	0.51	0.45	0.32	-21.89	-39.09	-40.76	0.96		
15.00	40.77	4892.4	4858.2	4835.8	0.50	0.19	0.28	-21.92	-40.61	-36.98	0.61		
15.50	35.34	4913.0	4878.6	4856.3	0.60	0.07	0.08	-20.18	-41.64	-35.03	0.28		
16.00	34.22	4931.1	4896.2	4874.1	0.51	0.07	-0.11	-21.59	-43.72	-33.16	0.12		
16.50	30.12	4947.7	4913.4	4891.4	0.19	0.19	-0.26	-20.79	-45.43	-30.20	0.03		
17.00	30.12	4963.7	4928.4	4906.0	-0.15	0.08	-0.35	-21.12	-46.95	-29.63	0.02		

REV. X1
ZX95-4650+
100506
Page 1 of 1



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

