

Frequency Mixer

ZX05-1MHW+

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					@LO (dBm)
		+10	+13	+16		+10	+13	+16	+10	+13	+16			+13
0.5	30.5	7.29	6.90	6.66	30.5	64.1	65.0	65.2	59.1	59.2	59.1	30.5	0.5	22.1
0.8	30.8	6.83	6.46	6.24	30.8	63.9	64.5	64.8	58.5	58.8	58.9	30.8	0.8	30.6
1.0	31.0	6.63	6.25	6.05	31.0	63.3	64.2	64.5	58.2	58.6	58.8	31.0	1.0	26.4
5.1	35.1	5.74	5.41	5.32	35.1	61.8	62.7	63.3	57.5	58.0	58.3	35.1	5.1	27.9
10.1	40.1	5.53	5.20	5.28	40.1	61.2	62.1	62.6	57.3	57.7	57.9	40.1	10.1	28.1
20.1	50.1	5.45	5.11	5.20	45.1	50.4	51.6	52.9	49.8	49.3	48.8	50.1	20.1	33.4
35.1	65.1	5.45	5.20	5.22	50.1	59.0	60.1	60.9	56.5	56.6	56.7	65.1	35.1	29.5
50.1	80.1	5.46	5.19	5.23	65.1	55.9	57.2	58.2	54.6	54.5	54.4	80.1	50.1	31.0
75.1	45.1	5.46	5.20	5.20	70.1	48.0	49.6	50.9	47.5	46.8	46.7	90.1	120.1	30.8
100.1	70.1	5.46	5.21	5.20	80.1	53.4	54.9	55.9	52.7	52.4	52.3	106.7	136.7	30.7
120.1	90.1	5.42	5.17	5.15	90.1	46.7	48.4	49.8	45.9	45.4	45.4	123.2	153.2	33.9
136.7	106.7	5.38	5.14	5.16	106.7	45.9	47.7	49.1	44.8	44.5	44.7	139.8	169.8	31.0
153.2	123.2	5.41	5.18	5.18	123.2	45.1	46.9	48.3	43.7	43.6	43.9	156.3	186.3	28.8
169.8	139.8	5.38	5.17	5.15	139.8	44.5	46.3	47.4	42.9	43.0	43.2	172.9	202.9	25.3
186.3	156.3	5.40	5.20	5.19	156.3	43.9	45.4	46.5	42.0	42.2	42.2	189.4	219.4	27.4
202.9	172.9	5.36	5.18	5.20	172.9	43.4	45.1	46.0	41.5	41.7	41.7	206.0	236.0	21.7
219.4	189.4	5.41	5.21	5.20	189.4	42.9	44.6	45.9	40.9	41.3	41.4	222.5	252.5	23.2
236.0	206.0	5.39	5.21	5.21	206.0	42.5	44.2	45.4	40.3	40.6	40.7	239.1	269.1	25.2
252.5	222.5	5.42	5.25	5.21	222.5	42.0	43.6	44.8	39.9	40.2	40.1	255.6	285.6	20.2
269.1	239.1	5.43	5.25	5.20	239.1	41.5	42.9	44.0	39.5	39.7	39.6	270.1	300.1	22.7
285.6	255.6	5.45	5.27	5.22	255.6	41.3	42.5	43.4	39.2	39.2	39.1	288.7	318.7	28.2
300.1	270.1	5.42	5.25	5.19	270.1	41.3	42.4	43.2	39.1	38.9	38.5	305.3	335.3	20.9
318.7	288.7	5.46	5.26	5.16	288.7	40.8	42.6	43.6	38.5	38.7	38.0	321.8	351.8	16.2
335.3	305.3	5.47	5.31	5.16	305.3	40.5	42.3	43.6	38.4	38.5	38.1	338.4	368.4	16.6
351.8	321.8	5.52	5.35	5.24	321.8	40.3	42.0	43.1	37.5	37.7	37.5	354.9	384.9	18.3
368.4	338.4	5.56	5.41	5.28	338.4	39.8	41.3	42.2	37.4	37.5	37.2	371.5	401.5	22.3
384.9	354.9	5.54	5.41	5.26	354.9	39.3	40.4	41.1	36.1	36.3	36.0	388.0	418.0	24.5
401.5	371.5	5.55	5.39	5.25	371.5	38.5	39.7	40.6	36.0	35.8	35.3	404.6	434.6	20.2
418.0	388.0	5.59	5.39	5.22	388.0	37.9	39.4	40.3	35.5	34.6	34.3	421.1	451.1	21.2
434.6	404.6	5.65	5.43	5.27	404.6	37.2	38.7	39.9	35.8	34.8	33.7	437.7	467.7	16.7
451.1	421.1	5.79	5.53	5.33	421.1	36.8	38.0	38.8	35.2	34.5	33.4	454.2	484.2	16.1
467.7	437.7	5.84	5.57	5.41	437.7	36.3	37.4	38.1	35.2	34.2	33.2	470.8	500.8	16.2
484.2	454.2	5.85	5.58	5.43	454.2	35.9	36.9	37.6	34.4	33.4	32.5	487.3	517.3	16.4
500.8	470.8	5.83	5.58	5.46	470.8	35.3	36.5	37.2	34.4	33.2	32.3	503.9	533.9	17.5
517.3	487.3	5.82	5.62	5.49	487.3	35.3	36.2	36.8	34.3	33.0	32.1	520.5	550.5	19.0
533.9	503.9	5.87	5.69	5.54	503.9	35.1	35.8	35.9	34.4	32.8	31.4	537.0	567.0	19.6
550.5	520.5	5.93	5.74	5.60	520.5	35.0	35.3	35.4	34.2	32.2	30.4	553.6	583.6	19.8
567.0	537.0	5.97	5.74	5.59	537.0	34.9	35.2	35.1	33.6	31.5	29.8	570.1	600.1	22.7
583.6	553.6	6.07	5.74	5.57	553.6	34.9	35.1	35.0	32.3	30.3	28.9			
600.1	570.1	6.11	5.72	5.56	570.1	34.8	35.0	35.0	31.2	29.3	28.1			

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Frequency Mixer

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
30.5	1.94	1.94	1.94	2.14	2.72	3.68	0.1	1.32	1.15	1.05
30.8	1.66	1.66	1.66	1.90	2.56	3.55	0.3	1.34	1.16	1.05
31.0	1.55	1.55	1.56	1.79	2.50	3.48	0.5	1.36	1.18	1.07
35.1	1.22	1.15	1.14	1.53	2.37	3.41	1.0	1.38	1.19	1.08
40.1	1.19	1.10	1.07	1.53	2.40	3.55	5.0	1.38	1.20	1.08
45.1	1.19	1.09	1.06	1.51	2.32	3.47	10.0	1.38	1.19	1.07
50.1	1.18	1.07	1.02	1.50	2.38	3.49	20.0	1.35	1.18	1.07
65.1	1.18	1.07	1.01	1.52	2.37	3.53	35.0	1.36	1.18	1.07
70.1	1.19	1.10	1.09	1.51	2.34	3.43	50.0	1.34	1.17	1.08
80.1	1.17	1.07	1.03	1.49	2.36	3.53	70.0	1.35	1.18	1.09
90.1	1.19	1.12	1.12	1.50	2.35	3.49	90.0	1.34	1.19	1.12
106.7	1.19	1.13	1.13	1.52	2.36	3.54	107.6	1.36	1.22	1.15
123.2	1.21	1.15	1.15	1.53	2.38	3.58	125.2	1.36	1.23	1.17
139.8	1.21	1.16	1.16	1.54	2.39	3.54	142.8	1.37	1.25	1.19
156.3	1.22	1.17	1.17	1.55	2.37	3.48	160.4	1.40	1.27	1.21
172.9	1.23	1.19	1.19	1.55	2.39	3.52	177.9	1.41	1.31	1.24
189.4	1.24	1.20	1.20	1.59	2.43	3.60	195.5	1.45	1.33	1.27
206.0	1.24	1.22	1.22	1.61	2.46	3.65	213.1	1.48	1.37	1.28
222.5	1.26	1.23	1.23	1.62	2.44	3.59	230.7	1.50	1.41	1.34
239.1	1.28	1.25	1.25	1.64	2.42	3.49	248.3	1.53	1.42	1.36
255.6	1.29	1.26	1.26	1.67	2.44	3.51	265.9	1.59	1.44	1.35
270.1	1.29	1.27	1.27	1.69	2.51	3.62	283.5	1.65	1.51	1.38
288.7	1.30	1.28	1.28	1.69	2.53	3.71	301.0	1.66	1.57	1.48
305.3	1.32	1.29	1.29	1.72	2.48	3.64	318.6	1.70	1.61	1.53
321.8	1.33	1.31	1.31	1.74	2.44	3.47	336.2	1.73	1.62	1.53
338.4	1.34	1.32	1.32	1.78	2.46	3.45	353.8	1.78	1.61	1.50
354.9	1.36	1.34	1.34	1.83	2.52	3.57	371.4	1.87	1.62	1.49
371.5	1.38	1.36	1.36	1.86	2.60	3.67	389.0	2.02	1.76	1.56
388.0	1.40	1.39	1.39	1.85	2.58	3.59	406.6	2.09	1.92	1.70
404.6	1.43	1.41	1.41	1.82	2.53	3.42	424.1	2.12	1.99	1.83
421.1	1.46	1.43	1.43	1.83	2.52	3.40	441.7	2.17	2.05	1.92
437.7	1.47	1.44	1.44	1.88	2.58	3.51	459.3	2.20	2.08	1.96
454.2	1.46	1.45	1.45	1.93	2.63	3.64	476.9	2.22	2.09	1.98
470.8	1.46	1.45	1.45	1.92	2.59	3.52	494.5	2.24	2.09	1.94
487.3	1.45	1.44	1.44	1.90	2.47	3.24	512.1	2.22	2.03	1.90
503.9	1.43	1.43	1.43	1.91	2.46	3.19	529.7	2.19	1.98	1.89
520.5	1.42	1.41	1.41	1.96	2.49	3.30	547.2	2.14	1.97	1.91
537.0	1.40	1.39	1.39	2.05	2.61	3.47	564.8	2.15	1.99	1.96
553.6	1.38	1.38	1.38	2.13	2.66	3.48	582.4	2.26	2.04	1.94
570.1	1.38	1.38	1.38	2.17	2.64	3.32	600.0	2.20	2.01	1.95

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