

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)	IP-3 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	64.13	65.03	65.15	59.13	59.15	59.12	30.5	0.5	22.10
0.8	30.8	6.83	6.46	6.24	30.8	63.87	64.46	64.83	58.53	58.83	58.90	30.8	0.8	30.60
1.0	31.0	6.63	6.25	6.05	31.0	63.30	64.24	64.51	58.19	58.62	58.75	31.0	1.0	26.40
5.1	35.1	5.74	5.41	5.32	35.1	61.84	62.71	63.25	57.47	58.01	58.29	35.1	5.1	27.90
10.1	40.1	5.53	5.20	5.28	40.1	61.21	62.13	62.59	57.31	57.70	57.86	40.1	10.1	28.10
20.1	50.1	5.45	5.11	5.20	45.1	50.37	51.59	52.94	49.76	49.29	48.84	50.1	20.1	33.30
35.1	65.1	5.45	5.20	5.22	50.1	58.98	60.05	60.91	56.48	56.64	56.65	65.1	35.1	29.50
50.1	80.1	5.46	5.19	5.23	65.1	55.94	57.24	58.22	54.55	54.53	54.37	80.1	50.1	31.00
75.1	105.1	5.46	5.20	5.20	70.1	48.04	49.55	50.93	47.50	46.80	46.70	105.1	75.1	27.70
100.1	130.1	5.46	5.21	5.20	80.1	53.43	54.86	55.92	52.74	52.44	52.25	130.1	100.1	28.60
120.1	150.1	5.42	5.17	5.15	90.1	46.73	48.44	49.82	45.87	45.38	45.44	150.1	120.1	30.80
136.7	166.7	5.38	5.14	5.16	106.7	45.91	47.71	49.10	44.77	44.52	44.74	166.7	136.7	30.70
153.2	183.2	5.41	5.18	5.18	123.2	45.12	46.94	48.33	43.67	43.64	43.89	183.2	153.2	33.90
169.8	199.8	5.38	5.17	5.15	139.8	44.53	46.28	47.43	42.90	42.98	43.18	199.8	169.8	31.00
186.3	216.3	5.40	5.20	5.19	156.3	43.88	45.43	46.54	42.03	42.16	42.24	216.3	186.3	28.80
202.9	232.9	5.36	5.18	5.20	172.9	43.40	45.09	46.03	41.45	41.67	41.66	232.9	202.9	25.30
219.4	249.4	5.41	5.21	5.20	189.4	42.86	44.63	45.88	40.90	41.28	41.36	249.4	219.4	27.40
236.0	266.0	5.39	5.21	5.21	206.0	42.46	44.22	45.43	40.32	40.56	40.73	266.0	236.0	21.70
252.5	282.5	5.42	5.25	5.21	222.5	41.97	43.63	44.79	39.87	40.19	40.14	282.5	252.5	23.20
269.1	299.1	5.43	5.25	5.20	239.1	41.48	42.91	43.98	39.53	39.67	39.57	299.1	269.1	25.20
285.6	315.6	5.45	5.27	5.22	255.6	41.33	42.50	43.39	39.15	39.17	39.06	315.6	285.6	20.20
300.1	330.1	5.42	5.25	5.19	270.1	41.25	42.41	43.16	39.10	38.90	38.48	330.1	300.1	22.70
318.7	348.7	5.46	5.26	5.16	288.7	40.82	42.63	43.57	38.49	38.66	38.04	348.7	318.7	28.20
335.3	365.3	5.47	5.31	5.16	305.3	40.54	42.30	43.61	38.36	38.50	38.10	365.3	335.3	20.90
351.8	381.8	5.52	5.35	5.24	321.8	40.32	41.96	43.08	37.47	37.65	37.49	381.8	351.8	16.20
368.4	398.4	5.56	5.41	5.28	338.4	39.77	41.27	42.16	37.40	37.46	37.15	398.4	368.4	16.60
384.9	414.9	5.54	5.41	5.26	354.9	39.26	40.38	41.08	36.10	36.31	36.03	414.9	384.9	18.30
401.5	431.5	5.55	5.39	5.25	371.5	38.52	39.73	40.56	35.99	35.77	35.26	431.5	401.5	22.30
418.0	448.0	5.59	5.39	5.22	388.0	37.94	39.35	40.31	35.49	34.63	34.33	448.0	418.0	24.50
434.6	464.6	5.65	5.43	5.27	404.6	37.23	38.70	39.85	35.78	34.80	33.72	464.6	434.6	20.20
451.1	481.1	5.79	5.53	5.33	421.1	36.76	37.97	38.84	35.24	34.45	33.41	481.1	451.1	21.20
467.7	497.7	5.84	5.57	5.41	437.7	36.33	37.42	38.12	35.19	34.20	33.17	497.7	467.7	16.70
484.2	514.2	5.85	5.58	5.43	454.2	35.88	36.94	37.55	34.44	33.38	32.54	514.2	484.2	16.10
500.8	530.8	5.83	5.58	5.46	470.8	35.52	36.54	37.17	34.38	33.15	32.26	530.8	500.8	16.20
517.3	547.3	5.82	5.62	5.49	487.3	35.29	36.20	36.78	34.27	32.98	32.06	547.3	517.3	16.40
533.9	563.9	5.87	5.69	5.54	503.9	35.12	35.79	35.93	34.40	32.80	31.36	563.9	533.9	17.50
550.5	580.5	5.93	5.74	5.60	520.5	34.98	35.31	35.36	34.23	32.18	30.43	580.5	550.5	19.00
567.0	597.0	5.97	5.74	5.59	537.0	34.94	35.16	35.13	33.61	31.50	29.76	597.0	567.0	19.60
583.6	613.6	6.07	5.74	5.57	553.6	34.90	35.05	35.01	32.28	30.26	28.93	613.6	583.6	19.80
600.1	630.1	6.11	5.72	5.56	570.1	34.80	35.01	34.95	31.20	29.30	28.13	630.1	600.1	22.70

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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	1.11	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	1.14	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	1.18	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	1.21	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	1.26	1.64	2.42	3.49	248.3	1.53	1.42	1.36
255.6	1.29	1.26	1.27	1.67	2.44	3.51	265.9	1.59	1.44	1.35
270.1	1.29	1.27	1.28	1.69	2.51	3.62	283.5	1.65	1.51	1.38
288.7	1.30	1.28	1.30	1.69	2.53	3.71	301.0	1.66	1.57	1.48
305.3	1.32	1.29	1.32	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	1.33	1.78	2.46	3.45	353.8	1.78	1.61	1.50
354.9	1.36	1.34	1.35	1.83	2.52	3.57	371.4	1.87	1.62	1.49
371.5	1.38	1.36	1.37	1.86	2.60	3.67	389.0	2.02	1.76	1.56
388.0	1.40	1.39	1.41	1.85	2.58	3.59	406.6	2.09	1.92	1.70
404.6	1.43	1.41	1.43	1.82	2.53	3.42	424.1	2.12	1.99	1.83
421.1	1.46	1.43	1.45	1.83	2.52	3.40	441.7	2.17	2.05	1.92
437.7	1.47	1.44	1.45	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	1.42	1.96	2.49	3.30	547.2	2.14	1.97	1.91
537.0	1.40	1.39	1.41	2.05	2.61	3.47	564.8	2.15	1.99	1.96
553.6	1.38	1.38	1.40	2.13	2.66	3.48	582.4	2.26	2.04	1.94
570.1	1.38	1.38	1.40	2.17	2.64	3.32	600.0	2.20	2.01	1.95