

Frequency Mixer

ZFM-2000+

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
100.0	130.0	8.09	7.88	7.75	100.0	64.43	63.45	62.54	48.08	46.41	45.11
200.0	230.0	7.62	7.16	6.86	200.0	60.82	60.41	59.67	43.64	40.82	38.84
267.7	237.6	7.90	7.37	7.03	267.7	58.02	58.33	57.88	41.46	38.59	36.54
435.3	405.3	8.54	7.73	7.27	435.3	52.16	51.41	51.14	36.86	34.21	32.30
500.0	470.0	8.54	7.83	7.35	500.0	53.94	52.88	52.24	36.19	33.31	31.53
602.9	572.9	8.44	7.78	7.34	602.9	52.69	52.63	52.35	34.91	32.54	30.83
714.7	684.7	8.40	7.91	7.61	714.7	53.94	54.29	53.52	32.49	30.27	28.90
770.6	740.6	8.42	8.02	7.75	770.6	54.82	54.64	53.30	32.22	30.10	28.76
938.2	908.2	8.01	7.66	7.50	938.2	72.62	60.17	56.80	31.93	29.50	27.72
994.1	964.1	7.85	7.51	7.34	994.1	72.58	59.11	54.41	31.68	29.33	27.52
1000.0	970.0	7.90	7.53	7.38	1000.0	70.20	59.12	54.02	31.65	29.29	27.40
1161.8	1131.8	7.91	7.40	7.25	1161.8	51.32	49.13	45.90	30.38	27.43	25.04
1273.5	1243.5	7.93	7.46	7.23	1273.5	47.56	43.70	40.67	29.58	26.26	23.74
1385.3	1355.3	8.11	7.55	7.33	1385.3	41.94	36.51	33.53	27.61	24.00	21.64
1441.2	1411.2	8.21	7.71	7.44	1441.2	37.98	34.04	31.73	29.52	26.34	24.11
1552.9	1522.9	8.34	7.73	7.39	1552.9	38.61	36.54	35.20	40.54	38.03	36.22
1720.6	1690.6	7.90	7.45	7.18	1720.6	41.45	42.35	42.11	38.58	34.48	32.05
1888.2	1858.2	7.87	7.47	7.22	1888.2	42.68	44.03	44.93	35.35	33.01	31.27
1944.1	1914.1	7.92	7.51	7.26	1944.1	42.70	43.94	44.77	34.30	32.64	31.00
2000.0	1970.0	7.92	7.54	7.30	2000.0	42.43	43.18	43.84	33.28	32.15	30.88



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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10	+7		
100.0	5.52	5.22	4.95	1.66	2.43	3.37	5.0	1.28	1.38	1.51	100.00	179.7	-0.20
199.8	5.59	5.25	4.80	1.66	2.36	3.22	10.0	1.77	1.85	1.99	200.00	215.2	-0.12
294.8	5.36	5.06	4.78	1.71	2.39	3.24	20.0	1.74	1.86	2.02	211.76	225.3	-0.17
442.0	4.78	4.59	4.36	1.79	2.43	3.24	50.0	1.48	1.60	1.75	379.41	235.9	0.14
537.0	4.47	4.34	4.17	1.81	2.42	3.20	60.8	1.45	1.57	1.72	500.00	243.1	-0.30
589.3	4.29	4.17	4.03	1.83	2.42	3.19	100.0	1.39	1.51	1.66	547.06	240.4	0.19
750.8	3.61	3.55	3.47	1.95	2.34	2.97	116.6	1.37	1.49	1.63	658.82	243.6	-0.43
879.0	3.21	3.13	3.03	2.10	2.34	2.87	172.3	1.31	1.43	1.56	714.71	251.3	0.30
997.8	2.72	2.55	2.46	2.18	2.24	2.66	200.0	1.27	1.39	1.52	882.35	250.7	-0.06
1026.3	2.69	2.52	2.41	2.18	2.22	2.61	228.1	1.24	1.36	1.49	994.12	259.7	0.26
1073.8	2.63	2.46	2.30	2.18	2.17	2.52	283.9	1.20	1.32	1.43	1050.00	250.4	0.49
1121.3	2.56	2.35	2.26	2.16	2.08	2.37	300.0	1.20	1.31	1.42	1161.76	267.6	1.44
1249.5	2.42	2.23	2.12	2.07	1.83	2.01	339.7	1.19	1.30	1.41	1273.53	266.2	1.25
1415.8	2.26	2.11	2.01	1.83	1.44	1.51	395.5	1.24	1.33	1.44	1385.29	270.4	-3.01
1501.3	2.13	1.99	1.89	1.71	1.29	1.39	451.3	1.35	1.43	1.54	1441.18	248.2	-0.77
1563.0	2.17	2.03	1.93	1.55	1.16	1.36	500.0	1.47	1.56	1.68	1552.94	260.3	4.92
1705.5	2.25	2.12	2.10	1.32	1.12	1.51	507.0	1.49	1.58	1.71	1720.59	235.1	2.01
1852.8	2.40	2.23	2.09	1.10	1.41	1.84	562.8	1.68	1.79	1.95	1888.24	226.7	0.92
1952.5	2.44	2.28	2.16	1.24	1.68	2.18	581.4	1.75	1.88	2.05	1944.12	249.8	0.51
2000.0	2.43	2.26	2.14	1.33	1.79	2.30	600.0	1.83	1.96	2.15	2000.00	225.5	-0.12

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