

# Frequency Mixer

# ZFM-11

## 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
1.0	31.0	6.34	6.05	5.92	1.0	58.56	60.95	64.12	54.78	56.30	58.16
5.0	35.0	6.04	5.78	5.64	5.0	58.80	61.86	65.69	53.80	55.70	58.00
20.0	50.0	6.10	5.81	5.64	20.0	58.87	61.93	65.38	53.47	55.12	57.37
50.0	80.0	6.28	5.94	5.79	50.0	58.00	60.22	63.38	52.47	54.24	55.98
100.0	70.0	6.24	5.92	5.80	100.0	54.71	56.59	57.37	50.08	50.92	51.84
200.0	170.0	6.94	6.50	6.18	200.0	48.17	48.94	49.72	43.91	44.33	45.26
267.5	237.5	7.11	6.52	6.15	267.5	45.01	45.81	46.78	40.82	41.60	43.04
400.8	370.8	7.59	6.74	6.33	400.8	41.09	42.38	43.83	37.40	38.67	39.67
500.0	470.0	7.58	6.83	6.44	500.0	40.01	41.61	43.58	36.21	36.88	37.46
600.7	570.7	7.64	7.03	6.64	600.7	38.46	40.10	41.61	36.37	36.28	35.49
734.0	704.3	7.78	7.24	6.86	734.0	37.95	39.39	39.90	35.43	34.20	32.72
867.2	837.5	7.64	7.09	6.79	867.2	37.34	39.07	40.00	33.52	31.66	30.22
1000.0	969.7	7.59	7.12	6.92	1000.0	35.09	36.76	37.95	31.13	29.17	28.00
1067.1	1037.5	7.40	6.97	6.77	1067.1	34.50	35.43	35.88	30.67	28.56	26.91
1200.4	1170.4	7.28	6.77	6.60	1200.4	33.34	33.71	33.57	29.25	27.07	25.52
1333.7	1303.6	7.28	6.72	6.55	1333.7	32.41	32.82	33.19	27.15	25.51	24.37
1466.9	1436.9	7.41	6.80	6.55	1466.9	32.53	33.13	33.05	25.46	24.22	23.31
1600.2	1570.5	7.50	6.93	6.63	1600.2	31.70	32.34	32.69	24.25	23.42	22.89
1733.5	1703.7	7.43	6.92	6.65	1733.5	28.65	29.41	30.12	27.71	27.19	26.79
2000.0	1970.3	7.36	6.99	6.77	2000.0	29.71	30.47	31.15	25.40	25.17	24.98

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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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
5.0	2.56	2.34	2.10	1.58	2.51	4.05	5.0	1.30	1.46	1.62
20.0	2.75	2.49	2.24	1.51	2.42	3.84	20.0	1.15	1.35	1.51
50.0	2.76	2.44	2.24	1.61	2.46	4.04	50.0	1.16	1.35	1.51
100.0	2.80	2.54	2.29	1.51	2.19	3.41	100.0	1.17	1.35	1.49
200.0	3.13	2.88	2.63	1.59	2.23	3.42	200.0	1.20	1.38	1.52
254.4	3.32	3.21	2.84	1.58	2.18	3.16	254.4	1.23	1.41	1.54
379.1	3.92	3.60	3.43	1.67	1.98	2.87	379.1	1.32	1.50	1.63
500.0	3.98	3.74	3.67	1.70	1.88	2.56	500.0	1.43	1.61	1.75
628.4	3.84	3.84	3.65	1.86	1.82	2.34	628.4	1.58	1.81	1.93
753.1	3.51	3.52	3.33	1.96	1.69	2.09	753.1	1.75	1.98	2.09
877.8	3.36	3.24	3.21	1.87	1.51	1.83	877.8	1.95	2.20	2.27
1000.0	2.99	3.00	2.85	1.78	1.37	1.59	1000.0	2.25	2.46	2.52
1064.8	2.82	2.77	2.71	1.78	1.24	1.48	1064.8	2.49	2.89	2.75
1189.5	2.56	2.54	2.41	1.55	1.14	1.41	1189.5	2.92	3.06	3.18
1376.6	2.27	2.23	2.10	1.25	1.13	1.63	1376.6	3.78	4.11	3.98
1501.3	2.19	2.13	2.07	1.10	1.39	1.91	1501.3	4.47	4.50	4.59
1625.9	2.27	2.16	2.12	1.18	1.67	2.03	1625.9	4.89	4.89	5.09
1750.6	2.02	2.27	2.26	1.26	2.36	2.10	1750.6	6.71	6.28	6.76
1875.3	1.70	2.54	2.44	1.54	2.01	2.32	1875.3	8.95	8.81	8.20
2000.0	2.65	2.89	2.71	1.55	1.93	2.35	2000.0	8.47	8.64	8.35

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