

Frequency Mixer

ZFM-15+

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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
10.0	40.0	7.09	6.53	6.23	10.0	23.88	26.10	27.81	23.04	25.08	27.01
20.0	50.0	7.15	6.60	6.36	20.0	28.07	30.38	32.40	27.25	29.74	31.89
100.0	70.0	7.10	6.55	6.27	100.0	33.54	35.82	38.01	32.56	35.93	38.89
200.0	170.0	7.14	6.60	6.32	200.0	35.25	37.35	39.48	34.67	38.21	41.31
400.0	370.0	7.36	6.74	6.38	400.0	35.50	36.49	37.50	37.43	39.50	39.44
500.0	470.0	7.13	6.52	6.23	500.0	34.59	35.42	36.65	37.49	38.00	37.53
790.0	760.0	7.40	6.70	6.39	790.0	31.76	32.94	34.27	35.00	33.60	34.14
920.0	890.0	7.71	6.76	6.35	920.0	30.94	32.80	34.84	33.13	33.97	33.68
1180.0	1150.0	8.13	7.30	6.99	1180.0	30.06	31.62	33.62	31.75	32.89	33.47
1310.0	1280.0	8.32	7.30	6.91	1310.0	29.59	31.27	33.27	32.10	34.31	35.08
1500.0	1470.0	7.32	6.54	6.25	1500.0	28.50	29.76	30.77	30.68	32.85	34.76
1700.0	1670.0	7.69	6.91	6.53	1700.0	28.13	28.49	28.63	31.86	30.87	31.34
1830.0	1800.0	7.60	6.97	6.65	1830.0	28.52	29.46	29.52	29.41	28.22	28.72
2000.0	1970.0	7.61	7.07	6.84	2000.0	27.07	28.32	29.26	28.50	27.77	27.62
2200.0	2170.0	7.47	6.97	6.80	2200.0	27.16	27.89	28.41	29.65	27.68	25.61
2480.0	2450.0	7.51	6.93	6.70	2480.0	28.24	28.37	28.05	25.87	24.64	20.89
2610.0	2580.0	7.71	7.08	6.90	2610.0	27.17	27.10	27.02	24.02	23.13	20.35
2740.0	2710.0	8.11	7.45	7.20	2740.0	27.49	26.79	26.50	22.65	21.95	20.52
2870.0	2840.0	8.18	7.56	7.37	2870.0	26.75	26.23	24.58	21.48	21.25	20.52
3000.0	2970.0	8.63	8.31	8.20	3000.0	27.78	29.30	29.14	20.68	20.32	19.50



Frequency Mixer

ZFM-15+

Typical Performance Data

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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13	+10		
10.0	2.11	1.84	1.62	1.62	1.71	2.26	10.0	1.56	1.45	1.39	10.00	216.1	-2.26
20.0	1.77	1.54	1.35	1.26	1.51	2.32	20.0	1.48	1.29	1.22	20.00	216.7	-0.18
50.0	1.75	1.50	1.30	1.08	1.37	2.18	50.0	1.50	1.25	1.17	50.00	217.1	0.25
100.0	1.81	1.55	1.33	1.07	1.44	2.07	100.0	1.53	1.26	1.17	100.00	214.7	0.40
200.0	2.02	1.72	1.48	1.23	1.40	1.96	200.0	1.56	1.27	1.19	200.00	219.0	0.57
316.2	2.26	1.99	1.72	1.43	1.34	1.78	316.2	1.56	1.26	1.20	324.69	232.8	0.80
500.0	2.79	2.45	2.22	1.75	1.33	1.57	500.0	1.55	1.23	1.19	414.60	206.4	1.02
622.3	3.09	2.70	2.51	1.96	1.36	1.40	622.3	1.52	1.20	1.16	500.00	192.5	0.93
851.9	3.28	2.85	2.67	2.19	1.36	1.11	851.9	1.43	1.16	1.07	639.37	223.8	1.05
1000.0	3.18	2.75	2.04	2.35	1.38	1.12	1000.0	1.40	1.20	1.24	729.28	205.6	1.39
1200.0	2.64	2.28	1.96	1.98	1.30	1.33	1200.0	1.48	1.37	1.14	800.00	179.6	1.40
1311.1	2.23	1.94	1.83	1.74	1.27	1.51	1311.1	1.58	1.48	1.04	909.10	183.2	1.28
1500.0	1.63	1.44	1.52	1.27	1.29	1.75	1500.0	1.74	1.56	1.19	1000.00	190.3	1.27
1617.3	1.38	1.25	1.27	1.12	1.34	1.92	1617.3	1.76	1.52	1.37	1200.00	196.4	1.71
1770.4	1.49	1.42	1.24	1.08	1.34	1.98	1770.4	1.59	1.31	1.62	1500.00	178.7	3.01
2000.0	2.09	1.97	1.83	1.50	1.44	1.89	2000.0	1.34	1.14	1.87	1800.00	175.8	2.71
2200.0	2.17	2.18	2.12	1.71	1.52	1.60	2200.0	1.37	1.30	1.80	2000.00	195.0	1.08
2500.0	2.63	2.37	2.45	2.94	1.93	1.31	2500.0	2.37	2.66	1.72	2200.00	171.8	-0.67
2800.0	2.10	2.09	1.95	2.96	2.25	2.04	2800.0	3.68	3.79	3.80	2500.00	177.3	-2.90
3000.0	2.21	2.18	2.28	3.00	2.63	1.80	3000.0	3.82	4.88	3.98	2800.00	163.2	-5.28
											3000.00	180.1	-6.79

REV. X1
ZFM-15+
060614
Page 2 of 2



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

