

# Frequency Mixer

# ZAD-6+

## 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
0.003	30.0	6.43	6.08	5.85	0.003	64.00	61.88	59.98	64.00	63.93	62.81
0.1	30.1	6.22	5.90	5.63	0.1	64.00	62.42	60.32	64.00	63.98	63.03
0.2	30.2	6.22	5.92	5.52	0.2	64.00	62.44	60.51	64.00	64.17	63.17
0.5	30.5	6.22	5.87	5.59	0.5	64.00	62.74	60.50	64.00	64.06	63.48
0.8	30.8	6.19	5.87	5.54	0.8	64.00	62.70	60.52	64.00	64.22	63.19
1.0	31.0	6.12	5.82	5.46	1.0	64.00	62.48	60.50	64.00	64.07	63.36
2.0	32.0	6.20	5.85	5.42	2.0	64.00	62.34	60.33	64.00	63.72	63.16
5.0	35.0	6.23	5.93	5.58	5.0	64.00	61.61	59.62	64.00	63.44	61.59
10.0	40.0	6.28	5.96	5.62	10.0	58.73	56.55	55.24	59.27	56.72	55.57
20.0	50.0	6.43	6.13	5.67	20.0	50.42	49.50	49.52	50.36	49.60	49.77
22.2	52.2	6.43	6.08	5.56	22.2	48.95	48.53	48.63	48.74	48.53	48.79
29.6	59.6	6.45	6.15	5.62	29.6	44.51	44.72	45.32	43.64	43.96	44.58
37.0	7.0	6.43	6.11	6.04	37.0	41.84	42.63	43.62	42.26	43.10	44.11
44.4	14.5	6.52	6.17	6.09	44.4	40.48	41.27	42.13	40.30	41.40	42.53
50.0	20.0	6.55	6.25	6.26	50.0	38.93	39.99	41.13	39.16	40.43	41.73
63.0	33.0	6.77	6.42	6.46	63.0	34.58	35.83	37.01	36.69	37.97	39.05
70.4	40.4	6.81	6.51	6.18	70.4	33.01	34.72	36.60	34.40	35.50	36.14
77.8	47.8	7.13	6.81	6.43	77.8	32.20	34.07	35.62	32.19	32.41	32.56
85.2	55.2	7.43	7.08	6.83	85.2	32.50	33.63	34.68	31.56	31.31	30.96
92.6	62.6	7.43	7.13	6.78	92.6	34.01	34.08	34.08	32.70	31.97	30.63
100.0	70.0	7.56	7.24	6.87	100.0	36.49	36.43	34.99	33.82	32.88	30.92

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant  
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## 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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10	+7		
5.0	1.35	1.25	1.15	1.85	2.77	4.14	5.0	1.73	1.60	1.44	0.003	-241.9	0.00
7.8	1.36	1.25	1.15	1.80	2.73	3.93	7.8	1.74	1.61	1.45	0.007	-236.4	0.02
10.0	1.35	1.25	1.15	1.79	2.68	3.84	10.0	1.75	1.61	1.46	0.01	-235.9	0.02
13.4	1.35	1.25	1.15	1.74	2.59	3.67	13.4	1.76	1.63	1.48	0.04	-235.4	0.02
19.0	1.33	1.24	1.15	1.82	2.60	3.72	19.0	1.79	1.66	1.51	0.07	-235.4	0.02
20.0	1.33	1.23	1.14	1.81	2.58	3.75	20.0	1.79	1.67	1.51	0.10	-231.3	0.01
27.4	1.30	1.21	1.12	1.78	2.63	3.66	27.4	1.85	1.72	1.57	0.30	-226.9	0.01
32.9	1.27	1.18	1.10	1.79	2.61	3.53	32.9	1.92	1.77	1.63	0.70	-227.6	0.01
38.5	1.23	1.15	1.08	1.81	2.55	3.51	38.5	1.99	1.84	1.70	1.00	-227.4	0.01
41.3	1.21	1.13	1.07	1.81	2.55	3.48	41.3	2.02	1.88	1.74	5.00	-226.7	0.01
46.9	1.17	1.10	1.06	1.79	2.56	3.47	46.9	2.10	1.97	1.81	14.33	-227.4	0.03
50.0	1.15	1.08	1.06	1.80	2.56	3.45	50.0	2.17	2.02	1.86	23.85	-228.7	0.07
52.5	1.13	1.07	1.07	1.81	2.56	3.44	52.5	2.20	2.07	1.90	33.37	-225.1	0.09
60.9	1.08	1.06	1.11	1.83	2.56	3.42	60.9	2.32	2.18	2.03	42.89	-220.8	0.12
66.5	1.06	1.08	1.14	1.84	2.55	3.36	66.5	2.40	2.28	2.13	50.00	-219.7	0.08
72.1	1.05	1.10	1.17	1.86	2.53	3.30	72.1	2.47	2.35	2.22	61.92	-212.2	0.46
80.4	1.06	1.13	1.19	1.93	2.57	3.33	80.4	2.52	2.42	2.30	70.00	-209.4	0.60
88.8	1.08	1.15	1.21	2.05	2.71	3.45	88.8	2.52	2.43	2.33	80.96	-204.7	1.05
94.4	1.08	1.15	1.20	2.09	2.79	3.60	94.4	2.51	2.40	2.32	90.48	-188.4	1.33
100.0	1.07	1.14	1.18	2.16	2.86	3.68	100.0	2.49	2.39	2.30	100.00	-170.6	2.08

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