

Frequency Mixer

ZAD-1-1+

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
0.1	30.1	6.29	5.97	5.79	0.1	64.00	67.00	70.00	64.00	67.00	70.00
0.5	30.5	5.39	5.10	4.97	0.5	64.00	67.00	70.00	64.00	67.00	70.00
1.0	31.0	5.26	5.03	4.88	1.0	64.00	67.00	70.00	64.00	60.45	58.45
2.0	32.0	5.17	4.95	4.83	2.0	64.00	67.00	70.00	64.00	60.33	58.40
5.0	35.0	5.09	4.94	4.79	5.0	64.00	67.00	70.00	64.00	60.77	58.85
10.0	40.0	5.11	4.92	4.82	10.0	64.00	67.00	70.00	64.00	61.39	59.31
20.0	50.0	5.23	5.01	4.91	20.0	64.00	67.00	70.00	64.00	61.65	59.31
50.0	80.0	5.11	4.95	4.85	50.0	64.00	67.00	60.40	64.00	61.63	57.18
69.8	99.8	5.07	4.92	4.82	69.8	64.00	57.89	55.46	64.00	55.93	53.10
100.0	70.0	4.98	4.82	4.77	100.0	53.52	51.38	50.35	51.19	49.30	48.15
173.1	143.1	5.09	4.99	4.92	173.1	42.69	42.54	43.78	40.65	40.81	42.06
200.0	170.0	5.19	5.08	4.99	200.0	43.25	43.50	43.78	40.60	41.01	41.28
224.7	194.7	5.33	5.23	5.09	224.7	40.97	41.57	42.12	38.49	39.41	40.10
259.1	229.1	5.35	5.21	5.12	259.1	38.29	38.74	39.32	36.72	36.85	37.59
293.5	263.5	5.41	5.32	5.28	293.5	36.69	37.88	39.26	35.47	36.40	37.52
345.1	315.1	5.80	5.71	5.62	345.1	35.04	36.54	37.94	32.97	33.55	34.49
396.8	366.8	6.04	5.68	5.37	396.8	36.38	37.59	38.39	34.55	34.68	33.66
431.2	401.2	6.70	5.98	5.36	431.2	37.85	37.76	38.44	36.93	36.68	35.35
465.6	435.6	7.52	7.01	6.30	465.6	37.33	37.18	37.12	35.95	36.08	35.13
500.0	470.0	8.25	7.80	7.14	500.0	37.02	38.33	40.41	33.62	34.17	32.40

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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



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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/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	1.38	1.27	1.20	1.50	2.30	3.45	5.0	2.13	1.92	1.78	0.10	-252.1	0.02
10.0	1.38	1.27	1.20	1.42	2.24	3.20	10.0	2.12	1.91	1.77	0.20	-255.1	0.03
20.0	1.37	1.27	1.20	1.51	2.26	3.25	20.0	2.12	1.90	1.76	0.50	-256.6	0.02
34.1	1.35	1.25	1.18	1.47	2.20	3.09	34.1	2.13	1.91	1.77	1.00	-257.4	0.02
50.0	1.33	1.23	1.16	1.43	2.16	3.02	50.0	2.15	1.92	1.78	2.00	-256.8	0.02
77.8	1.28	1.18	1.12	1.41	2.11	2.89	77.8	2.16	1.93	1.80	5.00	-258.9	0.02
100.0	1.25	1.15	1.09	1.40	2.08	2.88	100.0	2.21	1.96	1.85	10.00	-257.7	0.02
121.5	1.21	1.12	1.07	1.47	2.09	2.94	150.6	2.34	2.05	1.93	20.00	-259.1	0.03
150.6	1.16	1.09	1.07	1.50	2.12	2.86	179.7	2.42	2.13	1.99	50.00	-256.0	0.02
179.7	1.13	1.10	1.10	1.51	2.18	2.87	200.0	2.44	2.19	2.04	73.91	-260.7	0.03
200.0	1.12	1.11	1.14	1.53	2.22	2.96	212.5	2.24	2.00	1.87	100.00	-261.6	0.05
223.4	1.12	1.15	1.19	1.58	2.23	2.93	223.4	2.51	2.24	2.08	159.13	-256.4	0.09
267.1	1.16	1.22	1.27	1.69	2.38	3.05	267.1	2.60	2.32	2.17	200.00	-257.5	0.15
296.2	1.20	1.27	1.33	1.71	2.43	3.15	296.2	2.66	2.37	2.24	223.04	-261.2	0.20
325.3	1.24	1.31	1.38	1.80	2.44	3.20	325.3	2.68	2.41	2.25	265.65	-248.6	0.26
354.4	1.27	1.34	1.41	1.93	2.56	3.26	354.4	2.66	2.37	2.25	300.00	-236.6	0.14
383.5	1.29	1.36	1.41	2.09	2.75	3.42	383.5	2.65	2.37	2.23	372.17	-208.9	-0.07
412.7	1.29	1.35	1.40	2.17	2.85	3.56	412.7	2.69	2.37	2.24	400.00	-197.6	-0.18
441.8	1.26	1.31	1.36	2.22	2.95	3.69	441.8	2.65	2.34	2.19	457.38	-180.0	-0.37
470.9	1.19	1.23	1.28	2.29	3.00	3.82	470.9	2.63	2.31	2.16	500.00	-183.0	0.07
500.0	1.13	1.16	1.21	2.32	3.10	3.77	500.0	2.70	2.32	2.18			

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