

Frequency Mixer

ZAD-3+

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
0.03	30.0	7.21	6.94	6.77	0.03	61.68	58.72	56.56	57.08	53.27	51.07
0.04	30.0	6.05	5.80	5.65	0.04	57.71	55.35	53.96	54.31	51.43	49.68
0.05	30.1	5.74	5.52	5.37	0.05	56.72	54.61	53.34	53.56	51.09	49.47
0.1	30.1	5.32	5.16	4.95	0.1	55.43	53.51	52.62	52.38	50.41	49.13
0.2	30.2	5.21	4.98	4.86	0.2	55.00	53.27	52.45	51.97	50.18	49.00
0.5	30.5	5.14	4.92	4.82	0.5	54.58	53.12	52.30	51.86	50.13	48.94
1.0	31.0	5.00	4.82	4.72	1.0	53.86	53.18	52.24	51.81	50.48	49.14
2.0	32.0	4.95	4.77	4.67	2.0	53.82	53.13	52.17	51.42	50.55	49.22
5.0	35.0	4.94	4.76	4.66	5.0	54.18	53.42	52.39	52.01	50.99	49.53
10.0	40.0	5.00	4.81	4.69	10.0	54.39	53.68	52.71	52.35	51.27	49.73
20.0	50.0	5.11	4.87	4.75	20.0	54.46	53.67	52.78	51.61	50.52	49.12
38.5	68.5	5.19	4.96	4.84	38.5	54.62	53.25	52.25	51.07	48.52	46.85
50.0	80.0	5.16	4.94	4.84	50.0	54.76	53.49	52.53	49.96	47.54	45.77
69.2	99.2	5.10	4.90	4.78	69.2	54.38	53.53	52.77	47.69	45.77	44.16
84.6	54.6	5.07	4.86	4.78	84.6	54.10	53.31	52.51	45.33	44.13	42.88
100.0	70.0	4.95	4.81	4.73	100.0	53.91	53.55	52.96	43.50	42.70	41.62
123.1	93.1	5.02	4.87	4.81	123.1	55.23	55.31	55.03	40.89	40.58	39.80
153.9	123.9	5.11	4.96	4.89	153.9	52.25	52.97	52.92	38.71	38.04	37.79
176.9	146.9	5.30	5.19	5.10	176.9	47.72	49.53	51.11	37.78	38.76	38.46
200.0	170.0	5.37	5.28	5.21	200.0	43.90	45.61	47.46	36.16	38.31	40.01

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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	1.28	1.16	1.09	1.39	2.06	2.93	5.0	1.53	1.42	1.33	0.025	-227.8	0.96
10.0	1.29	1.17	1.09	1.38	2.04	2.90	10.0	1.54	1.43	1.33	0.03	-237.3	1.02
16.1	1.29	1.17	1.09	1.36	2.01	2.83	16.1	1.55	1.44	1.34	0.05	-248.9	1.03
20.0	1.29	1.16	1.09	1.34	1.99	2.80	20.0	1.55	1.44	1.34	0.10	-255.2	1.01
27.3	1.28	1.16	1.08	1.39	2.05	2.85	27.3	1.55	1.45	1.35	0.50	-258.7	1.02
38.4	1.27	1.15	1.08	1.43	2.08	2.86	38.4	1.57	1.46	1.36	2.00	-256.8	1.02
44.0	1.27	1.15	1.07	1.42	2.07	2.86	44.0	1.58	1.47	1.37	5.00	-253.4	1.00
50.0	1.26	1.14	1.07	1.42	2.07	2.84	50.0	1.59	1.49	1.39	10.00	-256.8	0.99
60.7	1.25	1.13	1.06	1.41	2.05	2.80	60.7	1.62	1.52	1.42	20.00	-253.0	0.98
77.4	1.23	1.11	1.06	1.41	2.02	2.77	77.4	1.67	1.57	1.47	38.48	-249.2	0.98
94.1	1.21	1.10	1.06	1.42	2.02	2.77	94.1	1.73	1.63	1.53	53.86	-257.1	1.07
100.0	1.20	1.09	1.06	1.42	2.02	2.75	100.0	1.76	1.65	1.55	69.25	-254.5	1.11
110.9	1.18	1.09	1.08	1.44	2.03	2.75	110.9	1.81	1.70	1.61	84.63	-257.0	1.21
122.0	1.17	1.08	1.09	1.45	2.03	2.76	122.0	1.87	1.75	1.64	100.00	-257.9	1.33
138.7	1.16	1.09	1.12	1.47	2.05	2.74	138.7	1.99	1.85	1.76	115.40	-255.2	1.28
149.9	1.15	1.11	1.14	1.51	2.07	2.72	149.9	2.05	1.92	1.81	130.78	-249.2	1.29
166.6	1.15	1.13	1.17	1.53	2.11	2.76	166.6	2.16	2.01	1.91	153.85	-254.9	1.35
177.7	1.16	1.15	1.20	1.56	2.13	2.79	177.7	2.24	2.08	1.98	169.24	-255.8	1.58
188.9	1.17	1.18	1.23	1.59	2.14	2.82	188.9	2.31	2.16	2.05	184.62	-255.3	1.77
200.0	1.19	1.21	1.25	1.61	2.15	2.80	200.0	2.39	2.24	2.11	200.00	-253.6	1.72

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