

Frequency Mixer

ADE-ED7383/3

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
0.1	30.1	4.51	4.41	4.31	30.1	58.3	59.1	59.3	55.1	53.8	52.8
0.3	30.3	4.86	4.76	4.56	30.3	58.3	58.9	59.2	54.7	53.7	52.9
0.5	30.5	4.72	4.52	4.52	30.5	58.4	58.7	59.3	55.0	53.8	52.9
0.8	30.8	4.75	4.55	4.45	30.8	58.2	58.7	59.0	54.9	53.9	53.0
1.0	31.0	4.77	4.57	4.47	31.0	58.2	58.8	59.1	55.1	53.9	53.1
5.0	35.0	4.74	4.54	4.44	35.0	56.8	57.3	57.2	53.7	52.6	51.9
10.0	40.0	4.63	4.53	4.43	40.0	55.5	56.0	55.9	51.3	51.0	50.5
22.2	52.2	4.76	4.56	4.46	52.2	53.0	53.1	53.3	48.5	48.4	48.0
40.0	70.0	4.77	4.57	4.57	70.0	50.0	49.8	49.8	45.0	45.5	45.5
44.3	74.3	4.85	4.65	4.55	74.3	50.0	50.1	50.1	44.1	44.5	44.5
66.4	96.4	4.87	4.77	4.67	96.4	45.4	45.6	45.9	41.0	42.8	43.7
70.0	100.0	4.80	4.70	4.60	100.0	45.3	45.3	45.5	40.0	41.9	43.1
88.5	118.5	4.84	4.64	4.54	118.5	46.8	46.6	46.4	37.1	38.3	39.4
100.0	130.0	4.96	4.76	4.66	130.0	46.4	46.1	46.1	36.2	37.3	38.2
110.6	140.6	5.14	4.84	4.74	140.6	43.6	43.6	43.8	37.5	38.5	39.4
120.0	150.0	5.16	4.96	4.76	150.0	41.0	41.0	41.7	36.8	38.3	39.1
132.7	162.7	5.11	5.01	4.91	162.7	38.4	38.2	39.1	36.8	39.3	41.2
150.0	180.0	5.23	5.03	4.93	180.0	36.3	36.7	37.5	33.8	36.3	38.5
154.8	184.8	5.08	5.08	4.88	184.8	36.0	36.3	37.1	33.0	35.4	37.6
170.0	200.0	5.25	5.05	5.15	200.0	37.5	40.1	40.9	30.8	32.4	34.3
176.9	206.9	5.36	5.16	5.16	206.9	37.6	40.9	40.8	29.9	31.6	33.2
199.0	229.0	5.71	5.41	5.21	229.0	37.8	40.2	39.3	28.5	30.1	31.3
220.0	250.0	5.98	5.88	5.48	250.0	38.5	40.9	39.6	28.0	29.1	30.4
221.1	251.1	6.00	5.90	5.50	251.1	38.4	40.7	39.5	28.0	29.0	30.4
243.2	273.2	6.31	6.01	5.81	273.2	36.0	36.5	36.2	27.5	28.6	29.5
265.3	295.3	6.82	6.42	6.22	295.3	34.9	34.3	33.8	27.6	27.7	27.6
270.0	300.0	6.87	6.57	6.37	300.0	34.4	33.4	32.7	27.6	27.5	26.7
287.4	317.4	7.31	7.01	6.71	317.4	33.0	30.8	29.8	28.4	25.9	23.4
300.0	330.0	7.45	7.15	6.95	330.0	32.1	29.1	27.9	27.7	23.7	21.4
309.5	339.5	7.77	7.47	7.27	339.5	31.4	27.8	26.6	26.8	22.6	20.4
331.6	361.6	8.47	8.17	8.07	361.6	29.8	25.7	24.2	24.7	20.8	18.8

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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
30.1	1.42	1.33	1.29	1.77	2.76	3.95	0.1	1.92	1.75	1.57
30.3	1.36	1.25	1.19	1.76	2.72	3.86	0.3	1.91	1.74	1.55
30.5	1.37	1.26	1.19	1.77	2.72	3.86	0.5	1.94	1.76	1.59
30.8	1.38	1.26	1.19	1.77	2.72	3.86	0.8	1.99	1.80	1.60
31.0	1.40	1.27	1.19	1.75	2.72	3.86	1.0	1.99	1.80	1.61
35.0	1.39	1.26	1.19	1.76	2.72	3.86	5.0	1.96	1.76	1.59
40.0	1.39	1.26	1.18	1.76	2.68	3.86	10.0	1.97	1.77	1.59
52.2	1.37	1.24	1.17	1.77	2.72	3.86	15.4	1.96	1.76	1.59
70.0	1.33	1.21	1.15	1.78	2.68	3.79	30.0	1.92	1.75	1.59
74.3	1.30	1.19	1.13	1.78	2.68	3.79	30.6	1.94	1.76	1.60
96.4	1.25	1.15	1.11	1.82	2.65	3.64	45.9	1.92	1.76	1.63
100.0	1.24	1.14	1.10	1.84	2.65	3.64	50.0	1.92	1.76	1.63
118.5	1.20	1.11	1.07	1.84	2.68	3.71	61.1	1.99	1.81	1.70
130.0	1.17	1.09	1.06	1.89	2.76	3.79	70.0	1.96	1.81	1.69
140.6	1.17	1.10	1.11	1.96	2.76	3.79	76.4	1.94	1.78	1.70
150.0	1.16	1.11	1.14	1.94	2.84	3.95	91.6	1.99	1.84	1.75
162.7	1.13	1.13	1.15	1.96	2.80	3.86	100.0	1.91	1.78	1.75
180.0	1.13	1.16	1.21	1.99	2.80	3.64	106.9	1.99	1.85	1.77
184.8	1.13	1.18	1.23	2.01	2.76	3.64	122.2	1.94	1.81	1.77
200.0	1.12	1.20	1.26	2.08	2.72	3.64	137.4	1.97	1.84	1.80
206.9	1.10	1.18	1.23	2.12	2.80	3.71	152.7	1.94	1.80	1.76
229.0	1.10	1.03	1.07	2.32	3.16	3.95	167.9	1.97	1.81	1.76
250.0	1.29	1.20	1.14	2.32	3.21	4.22	170.0	1.96	1.81	1.76
251.1	1.30	1.22	1.15	2.30	3.21	4.32	183.2	1.99	1.84	1.76
273.2	1.55	1.48	1.43	2.23	2.96	3.86	198.5	1.97	1.81	1.73
295.3	1.89	1.78	1.71	2.20	2.92	3.79	200.0	2.01	1.85	1.75
300.0	1.94	1.84	1.76	2.25	2.92	3.86	213.7	2.04	1.85	1.74
317.4	2.08	1.99	1.92	2.30	2.96	3.86	229.0	2.06	1.87	1.70
330.0	2.18	2.10	2.04	2.30	2.96	3.86	244.2	2.16	1.92	1.73
339.5	2.25	2.16	2.12	2.30	2.92	3.71	250.0	2.16	1.92	1.70
361.6	2.37	2.30	2.23	2.27	2.76	3.44	259.5	2.27	1.99	1.74