

Frequency Mixer

ADE-ED7086/1

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
1.0	31.0	9.45	8.75	8.45	31.0	66.4	68.8	70.8	29.9	66.2	64.0
5.0	35.0	7.47	6.77	6.57	35.0	65.8	68.6	69.7	30.3	65.1	63.1
10.0	40.0	7.12	6.42	6.22	40.0	64.6	66.3	68.2	29.7	63.7	61.9
20.0	50.0	7.08	6.48	6.28	50.0	63.1	65.1	66.3	29.8	62.2	59.9
30.0	60.0	6.70	6.10	5.90	60.0	61.4	63.2	64.7	29.4	60.4	58.2
50.0	80.0	7.03	6.43	6.23	80.0	58.4	60.7	61.9	28.0	57.6	55.1
70.0	100.0	6.96	6.46	6.26	100.0	56.7	58.8	60.1	25.7	55.7	52.8
73.6	103.6	7.06	6.46	6.26	103.6	56.3	58.4	59.8	24.9	55.4	52.6
80.0	110.0	7.03	6.43	6.23	110.0	55.9	57.9	58.9	25.7	54.3	52.0
100.0	130.0	6.97	6.37	6.27	130.0	54.3	56.3	57.7	24.0	52.8	50.5
120.0	150.0	6.86	6.36	6.26	150.0	52.9	54.8	56.5	22.8	51.0	48.9
147.1	177.1	7.03	6.43	6.23	177.1	51.1	53.4	55.1	22.4	48.7	47.2
220.6	250.6	6.91	6.41	6.31	250.6	48.2	51.0	52.5	20.5	45.1	44.3
294.1	324.1	6.72	6.22	6.12	324.1	46.0	49.2	51.1	19.5	42.5	41.8
367.6	397.6	6.67	6.17	6.07	397.6	44.0	46.8	48.4	18.7	40.8	40.2
441.1	471.1	6.65	6.25	6.15	471.1	42.4	45.3	47.5	17.9	39.2	38.6
500.0	530.0	6.66	6.16	6.06	530.0	41.5	44.5	46.6	18.0	37.5	36.9
514.6	544.6	6.61	6.21	6.01	544.6	41.4	44.8	47.1	17.8	37.2	36.4
588.1	618.1	6.62	6.22	6.12	618.1	39.8	42.5	44.8	17.3	35.8	35.2
661.6	691.6	6.59	6.19	5.99	691.6	38.5	41.4	43.3	16.4	35.0	34.2

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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
40.0	1.61	1.48	1.42	1.07	1.82	2.58	1.0	1.46	1.13	1.02
50.0	1.59	1.44	1.38	1.07	1.84	2.61	5.0	1.45	1.12	1.01
60.0	1.58	1.43	1.36	1.07	1.84	2.65	10.0	1.45	1.11	1.01
80.0	1.53	1.39	1.32	1.08	1.82	2.61	20.0	1.43	1.11	1.01
100.0	1.53	1.39	1.32	1.11	1.82	2.58	30.0	1.44	1.11	1.01
103.6	1.51	1.38	1.31	1.12	1.82	2.55	50.0	1.43	1.12	1.02
110.0	1.53	1.38	1.32	1.11	1.85	2.55	97.1	1.44	1.13	1.03
130.0	1.51	1.37	1.30	1.13	1.85	2.58	100.0	1.44	1.13	1.03
150.0	1.52	1.38	1.31	1.16	1.87	2.61	145.6	1.43	1.14	1.05
177.1	1.54	1.38	1.32	1.16	1.88	2.61	194.1	1.44	1.16	1.08
250.6	1.52	1.38	1.32	1.21	1.92	2.68	242.6	1.46	1.19	1.12
324.1	1.48	1.34	1.30	1.24	1.94	2.68	250.0	1.45	1.19	1.12
397.6	1.46	1.35	1.30	1.26	1.96	2.68	291.1	1.49	1.23	1.16
471.1	1.41	1.30	1.26	1.29	1.97	2.68	339.6	1.54	1.28	1.21
530.0	1.38	1.27	1.23	1.29	2.08	2.92	388.1	1.59	1.34	1.28
544.6	1.38	1.27	1.23	1.30	2.04	2.72	436.6	1.62	1.40	1.34
618.1	1.37	1.27	1.23	1.32	2.12	2.92	485.1	1.65	1.45	1.41
691.6	1.30	1.20	1.16	1.36	2.16	2.92	501.0	1.67	1.46	1.43
765.1	1.30	1.20	1.16	1.37	2.10	2.72	533.5	1.67	1.50	1.46
838.5	1.32	1.21	1.17	1.35	2.08	2.68	582.0	1.68	1.54	1.51