

Frequency Mixer

ADE-ED7014/1

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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
5.0	35.0	7.26	6.76	6.56	35.0	63.4	64.1	64.6	68.7	66.0	63.6
10.0	40.0	6.92	6.52	6.22	40.0	62.2	62.7	63.4	67.4	65.1	62.8
50.0	80.0	6.99	6.59	6.29	80.0	55.6	56.3	56.7	63.0	61.0	59.0
100.0	130.0	6.91	6.51	6.31	130.0	51.5	52.0	52.5	57.6	59.2	59.2
197.1	227.1	7.14	6.64	6.44	227.1	46.6	47.1	47.6	45.8	45.4	48.9
295.6	325.6	6.85	6.55	6.45	325.6	43.6	44.1	44.6	37.4	39.7	43.4
394.1	424.1	7.07	6.77	6.47	424.1	40.2	41.0	41.8	33.7	36.6	40.2
492.6	522.6	6.98	6.58	6.38	522.6	38.7	39.9	40.8	30.8	33.6	36.6
500.0	530.0	6.98	6.58	6.38	530.0	38.4	39.7	40.5	30.6	33.3	36.3
591.1	621.1	7.12	6.72	6.52	621.1	36.3	37.6	38.6	28.7	31.4	34.0
689.6	719.6	6.92	6.52	6.32	719.6	32.9	34.3	35.4	28.7	31.2	33.7
788.1	818.1	7.16	6.76	6.46	818.1	30.9	32.4	33.6	27.4	30.0	32.4
886.6	916.6	7.19	6.69	6.39	916.6	29.2	30.6	31.8	25.4	27.5	29.5
970.0	1000.0	7.00	6.50	6.30	1000.0	29.4	30.8	31.6	23.0	24.7	26.5
985.1	1015.1	6.77	6.37	6.07	1015.1	29.4	30.7	31.6	22.6	24.3	26.1
1000.0	1030.0	6.82	6.32	6.12	1030.0	29.4	30.8	31.6	22.4	23.9	25.6
1050.0	1080.0	6.67	6.27	6.07	1080.0	29.7	30.9	31.6	21.6	23.2	24.8
1083.5	1113.5	6.69	6.19	5.99	1113.5	29.7	31.0	31.6	21.2	22.8	24.2
1182.0	1212.0	6.76	6.06	5.86	1212.0	29.6	30.7	31.3	20.8	22.4	23.8
1280.5	1310.5	7.06	6.36	5.86	1310.5	29.2	30.2	30.8	20.2	22.1	23.4

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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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
35.0	1.09	1.65	2.43	1.73	1.63	1.56	30.0	1.19	1.02	1.13
40.0	1.08	1.67	2.40	1.71	1.59	1.52	50.0	1.20	1.04	1.13
80.0	1.08	1.65	2.43	1.61	1.49	1.41	100.0	1.20	1.06	1.13
130.0	1.11	1.65	2.40	1.57	1.46	1.38	102.1	1.20	1.06	1.13
227.1	1.15	1.66	2.43	1.64	1.52	1.46	153.1	1.21	1.08	1.13
325.6	1.18	1.69	2.40	1.60	1.51	1.46	204.1	1.22	1.10	1.13
424.1	1.19	1.71	2.43	1.63	1.55	1.51	255.1	1.23	1.11	1.13
522.6	1.20	1.76	2.49	1.62	1.54	1.50	306.1	1.24	1.13	1.13
530.0	1.20	1.76	2.46	1.60	1.53	1.49	357.1	1.25	1.13	1.12
621.1	1.23	1.81	2.55	1.65	1.59	1.55	408.1	1.27	1.13	1.10
719.6	1.25	1.80	2.49	1.59	1.51	1.47	459.1	1.28	1.13	1.08
818.1	1.30	1.85	2.46	1.59	1.52	1.47	500.0	1.28	1.12	1.05
916.6	1.34	1.92	2.61	1.53	1.47	1.41	510.1	1.28	1.11	1.04
1000.0	1.38	2.01	2.80	1.48	1.40	1.36	561.0	1.27	1.11	1.01
1015.1	1.39	1.99	2.80	1.45	1.38	1.33	612.0	1.26	1.10	1.03
1030.0	1.41	2.06	2.92	1.46	1.38	1.33	663.0	1.24	1.10	1.06
1080.0	1.47	2.16	3.01	1.44	1.35	1.30	714.0	1.23	1.10	1.09
1113.5	1.51	2.16	2.96	1.41	1.33	1.28	765.0	1.22	1.12	1.12
1212.0	1.61	2.32	3.16	1.47	1.36	1.30	816.0	1.22	1.14	1.15
1310.5	1.69	2.37	3.21	1.58	1.46	1.39	867.0	1.22	1.16	1.18