

Frequency Mixer

ADE-ED8110/1

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP-3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					@LO (dBm)
		+10	+13	+16		+10	+13	+16	+10	+13	+16			+13
1.0	31.0	7.45	7.15	7.05	31.0	54.1	54.3	54.5	36.3	40.6	44.4	700.0	730.0	23.2
2.0	32.0	6.91	6.61	6.51	32.0	53.2	53.5	53.5	36.3	40.4	44.1	750.0	780.0	23.3
5.0	35.0	6.45	6.05	5.95	35.0	54.4	53.7	54.3	36.7	40.7	44.4	800.0	830.0	11.4
10.0	40.0	6.38	5.98	5.88	40.0	53.6	52.2	52.9	36.7	41.1	44.6	850.0	880.0	23.9
20.0	50.0	6.36	5.96	5.86	50.0	52.2	48.6	49.9	36.7	41.1	44.0	900.0	930.0	21.4
50.0	80.0	6.24	5.94	5.84	80.0	47.2	45.0	46.2	37.0	40.9	42.8	950.0	980.0	19.1
100.0	130.0	6.33	6.03	5.83	130.0	41.2	41.3	41.0	36.4	39.0	40.6	1000.0	1030.0	19.0
114.5	144.5	6.30	6.00	5.90	144.5	40.5	41.1	40.5	36.6	39.1	40.2			
227.9	257.9	6.55	6.35	5.95	257.9	35.8	37.7	37.4	36.8	37.7	37.5			
341.4	371.4	7.02	6.42	6.12	371.4	34.3	35.9	33.3	37.3	37.0	35.0			
454.8	484.8	6.85	6.35	5.95	484.8	31.9	32.9	31.9	38.1	35.4	32.3			
500.0	530.0	6.89	6.49	6.09	530.0	31.8	31.0	31.4	39.4	35.0	31.3			
568.3	598.3	7.22	6.62	6.32	598.3	30.3	31.1	31.1	38.7	31.8	30.0			
681.7	711.7	7.03	6.53	6.23	711.7	29.2	29.8	30.1	34.7	31.4	29.5			
700.0	730.0	7.09	6.59	6.29	730.0	28.8	29.3	30.4	34.8	31.9	29.6			
795.2	825.2	7.11	6.61	6.41	825.2	28.3	30.0	30.8	33.4	32.2	30.4			
908.6	938.6	7.25	6.95	6.85	938.6	28.5	30.6	31.6	34.8	32.8	30.0			
1000.0	1030.0	7.61	7.11	7.01	1030.0	28.4	30.5	32.1	35.7	32.0	28.7			
1022.1	1052.1	7.57	7.27	7.07	1052.1	28.4	30.2	32.0	33.6	30.5	27.6			
1135.5	1165.5	7.37	7.17	6.97	1165.5	28.4	30.9	33.8	31.5	30.4	28.7			
1249.0	1279.0	7.30	7.00	6.90	1279.0	28.7	32.1	35.6	32.9	31.5	28.6			
1362.4	1392.4	7.42	7.12	7.02	1392.4	28.9	32.6	36.8	32.4	31.1	29.2			
1475.9	1505.9	7.50	7.30	7.00	1505.9	29.0	32.5	37.3	32.5	32.1	31.8			
1500.0	1530.0	7.58	7.28	7.08	1530.0	29.0	32.7	36.6	32.4	31.8	31.0			
1589.3	1619.3	7.98	7.48	7.28	1619.3	28.1	31.8	36.4	31.9	33.1	32.5			
1702.8	1732.8	8.67	7.87	7.57	1732.8	27.9	31.7	35.6	30.8	32.9	33.6			
1816.2	1846.2	9.46	8.66	8.16	1846.2	27.1	30.6	34.8	29.0	31.2	33.0			
1929.7	1959.7	9.45	8.75	8.25	1959.7	26.2	29.1	33.5	28.4	30.2	32.2			
1970.0	2000.0	9.41	8.61	8.21	2000.0	25.9	29.0	32.7	28.4	30.4	32.2			
2000.0	2030.0	9.51	8.61	8.11	2030.0	25.5	28.6	32.3	28.4	30.5	32.2			

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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
31.0	1.67	1.71	1.74	1.65	2.27	3.11	1.0	1.54	1.84	2.04
32.0	1.39	1.40	1.43	1.63	2.32	3.06	2.0	1.40	1.68	1.89
35.0	1.18	1.18	1.21	1.63	2.35	3.11	5.0	1.30	1.59	1.80
40.0	1.13	1.10	1.13	1.59	2.27	3.01	10.0	1.28	1.58	1.80
50.0	1.08	1.05	1.10	1.59	2.30	2.92	20.0	1.27	1.56	1.78
80.0	1.07	1.03	1.07	1.61	2.37	2.96	30.0	1.26	1.55	1.77
130.0	1.09	1.02	1.04	1.60	2.30	3.01	50.0	1.26	1.54	1.76
144.5	1.10	1.03	1.03	1.62	2.27	3.06	100.0	1.28	1.57	1.78
257.9	1.21	1.15	1.10	1.59	2.23	2.96	200.0	1.35	1.64	1.85
371.4	1.39	1.32	1.26	1.54	2.12	2.76	300.0	1.40	1.67	1.87
484.8	1.59	1.49	1.42	1.54	2.04	2.68	398.8	1.43	1.69	1.88
530.0	1.66	1.56	1.50	1.55	2.03	2.65	500.0	1.50	1.78	1.97
598.3	1.85	1.71	1.63	1.52	2.04	2.61	597.7	1.63	1.92	2.14
711.7	2.03	1.89	1.81	1.48	1.88	2.46	697.2	1.70	2.03	2.23
730.0	2.06	1.94	1.85	1.44	1.81	2.35	796.6	1.74	2.04	2.23
825.2	2.10	1.99	1.92	1.43	1.81	2.25	896.1	1.76	2.06	2.25
938.6	2.12	2.04	1.99	1.42	1.70	2.12	995.5	1.75	2.04	2.23
1030.0	2.40	2.30	2.25	1.46	1.64	2.06	1001.0	1.74	2.03	2.20
1052.1	2.43	2.37	2.30	1.47	1.66	2.12	1095.0	1.63	1.89	2.06
1165.5	2.58	2.52	2.43	1.51	1.61	1.99	1194.4	1.42	1.62	1.76
1279.0	2.46	2.37	2.32	1.53	1.51	1.82	1293.9	1.26	1.43	1.56
1392.4	2.25	2.12	2.06	1.56	1.48	1.78	1393.3	1.18	1.34	1.46
1505.9	2.30	2.18	2.08	1.57	1.46	1.77	1492.8	1.12	1.25	1.36
1530.0	2.30	2.16	2.06	1.56	1.48	1.75	1500.0	1.12	1.26	1.36
1619.3	2.37	2.20	2.06	1.65	1.43	1.65	1592.2	1.20	1.25	1.32
1732.8	2.43	2.25	2.16	1.70	1.38	1.52	1691.7	1.42	1.41	1.45
1846.2	2.52	2.37	2.30	1.74	1.33	1.34	1791.1	1.65	1.63	1.64
1959.7	2.65	2.52	2.40	1.82	1.35	1.17	1890.6	1.94	1.89	1.87
2000.0	2.61	2.52	2.40	1.82	1.32	1.11	1990.0	2.37	2.30	2.25