

Frequency Mixer

ADE-ED7880/1

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)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
0.4	30.4	8.43	7.83	7.43	30.4	61.1	64.1	66.8	61.7	67.5	74.8
1.0	31.0	7.20	6.60	6.30	31.0	60.9	63.8	66.7	61.1	67.6	75.0
2.0	32.0	6.67	6.07	5.87	32.0	60.4	63.4	66.5	60.7	66.9	75.0
5.0	35.0	6.19	5.69	5.49	35.0	59.9	63.0	65.9	60.1	66.0	74.4
10.0	40.0	6.15	5.65	5.45	40.0	58.7	61.9	64.9	58.9	64.8	74.1
20.0	50.0	6.05	5.55	5.35	50.0	57.2	60.0	62.9	57.2	63.2	72.9
50.0	80.0	6.05	5.55	5.35	80.0	53.2	56.2	58.9	53.1	58.6	67.6
75.0	105.0	6.16	5.56	5.36	105.0	50.8	53.8	56.8	50.5	56.2	64.1
100.0	130.0	6.13	5.53	5.33	130.0	48.7	52.1	55.3	48.3	53.5	59.1
150.0	180.0	6.02	5.52	5.32	180.0	46.1	49.6	53.1	45.0	48.4	53.3
175.0	205.0	6.03	5.53	5.33	205.0	45.0	48.4	52.2	43.6	46.4	51.1
200.0	230.0	6.09	5.59	5.39	230.0	43.9	47.3	51.1	41.8	44.6	48.9
224.2	254.2	6.09	5.69	5.39	254.2	43.2	46.6	50.2	40.5	43.4	47.9
250.0	280.0	6.05	5.65	5.45	280.0	42.5	46.1	49.7	39.4	42.3	46.7
280.0	310.0	6.06	5.76	5.46	310.0	41.3	45.4	49.2	38.0	41.1	44.9
298.9	328.9	6.11	5.71	5.61	328.9	40.8	44.5	48.5	37.2	40.3	44.4
350.0	380.0	6.25	5.75	5.55	380.0	39.3	42.9	46.6	35.4	38.6	41.8
373.6	403.6	6.26	5.86	5.56	403.6	39.2	42.3	46.0	34.9	37.5	40.9
400.0	430.0	6.39	5.99	5.69	430.0	39.2	42.5	45.4	34.2	37.2	40.4
450.0	480.0	6.28	6.08	5.88	480.0	38.7	42.4	46.0	33.2	36.4	39.6
470.0	500.0	6.30	6.10	5.80	500.0	38.8	42.5	46.7	33.0	36.2	39.4
500.0	530.0	6.29	5.99	5.79	530.0	38.5	42.9	48.3	32.0	34.8	38.1
523.0	553.0	6.26	5.96	5.76	553.0	38.4	42.5	47.1	31.4	33.8	37.1
597.7	627.7	6.81	6.11	5.81	627.7	37.6	41.5	45.2	30.7	32.6	34.1
672.4	702.4	7.30	6.80	6.20	702.4	35.4	39.9	43.9	31.2	32.7	34.1
747.1	777.1	7.98	7.38	6.88	777.1	34.0	38.7	45.0	31.4	33.5	34.6
821.8	851.8	8.61	8.01	7.11	851.8	33.1	37.9	47.1	31.7	33.0	32.9

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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)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
30.4	2.32	2.25	2.23	1.07	1.55	2.27	0.1	2.04	1.74	1.48
31.0	1.63	1.57	1.54	1.07	1.55	2.32	0.2	2.01	1.71	1.46
32.0	1.45	1.36	1.31	1.07	1.54	2.30	0.5	2.06	1.76	1.51
35.0	1.39	1.24	1.17	1.08	1.56	2.30	1.0	2.14	1.82	1.54
40.0	1.38	1.22	1.13	1.07	1.54	2.32	5.0	2.10	1.78	1.51
50.0	1.38	1.21	1.11	1.07	1.56	2.30	10.0	2.12	1.80	1.52
80.0	1.35	1.18	1.09	1.06	1.55	2.23	25.1	2.01	1.73	1.49
105.0	1.34	1.17	1.07	1.07	1.55	2.25	30.0	2.06	1.76	1.50
130.0	1.33	1.15	1.06	1.10	1.56	2.32	50.0	2.03	1.74	1.49
180.0	1.30	1.13	1.04	1.09	1.57	2.32	75.1	2.03	1.75	1.50
205.0	1.29	1.14	1.04	1.08	1.54	2.27	100.0	2.03	1.75	1.51
230.0	1.28	1.13	1.04	1.11	1.58	2.37	125.1	2.06	1.76	1.52
254.2	1.27	1.12	1.03	1.14	1.60	2.40	150.1	2.06	1.78	1.54
280.0	1.24	1.09	1.02	1.15	1.59	2.27	175.1	2.06	1.78	1.54
310.0	1.23	1.09	1.02	1.18	1.61	2.35	200.1	2.06	1.78	1.55
328.9	1.21	1.08	1.02	1.19	1.61	2.46	225.1	2.06	1.78	1.55
380.0	1.21	1.06	1.03	1.23	1.61	2.23	250.0	2.03	1.76	1.54
403.6	1.22	1.08	1.05	1.26	1.66	2.35	275.0	2.03	1.76	1.54
430.0	1.20	1.09	1.06	1.28	1.71	2.46	300.0	2.03	1.76	1.54
480.0	1.15	1.10	1.11	1.33	1.63	2.18	325.0	2.01	1.75	1.53
500.0	1.13	1.10	1.13	1.37	1.70	2.35	350.0	1.99	1.74	1.53
530.0	1.10	1.11	1.19	1.41	1.70	2.35	375.0	1.99	1.75	1.54
553.0	1.09	1.13	1.21	1.43	1.64	2.18	400.0	1.99	1.75	1.54
627.7	1.15	1.13	1.19	1.58	1.89	2.40	425.0	2.03	1.77	1.56
702.4	1.26	1.13	1.13	1.61	2.04	2.72	450.0	2.04	1.78	1.57
777.1	1.39	1.29	1.23	1.57	1.96	2.65	475.0	2.06	1.80	1.59
851.8	1.60	1.51	1.44	1.50	1.76	2.32	500.0	2.08	1.84	1.63