

Frequency Mixer

ADE-ED7878/1

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
0.5	30.5	9.18	8.68	8.28	30.5	60.3	62.1	64.2	60.4	61.2	61.2
1.0	31.0	8.02	7.52	7.22	31.0	60.3	61.9	63.8	60.3	60.9	61.1
2.0	32.0	7.06	6.66	6.46	32.0	60.3	61.6	64.1	60.3	61.1	61.2
5.0	35.0	6.38	6.08	5.78	35.0	60.0	61.5	63.7	60.5	61.1	61.2
10.0	40.0	6.17	5.87	5.67	40.0	59.6	61.0	63.3	60.7	61.4	61.8
20.0	50.0	6.05	5.85	5.55	50.0	58.3	59.5	61.7	61.0	61.3	61.8
50.0	80.0	6.15	5.85	5.65	80.0	54.2	55.9	57.4	62.4	62.2	62.7
75.1	105.1	6.13	5.83	5.63	105.1	52.2	53.7	55.3	64.3	63.8	64.2
100.0	130.0	6.10	5.90	5.60	130.0	50.0	51.6	53.6	65.5	64.2	64.1
150.1	180.1	5.99	5.79	5.49	180.1	46.3	48.6	51.5	61.3	60.4	64.4
225.1	255.1	6.20	5.80	5.60	255.1	44.7	46.6	48.5	51.5	50.9	54.6
300.1	330.1	6.19	5.89	5.79	330.1	43.1	44.7	46.4	44.7	46.7	50.4
375.1	405.1	6.18	5.88	5.78	405.1	40.8	42.7	44.6	41.8	44.8	48.1
450.1	480.1	6.26	5.86	5.76	480.1	39.0	40.6	42.5	39.2	42.1	45.1
470.0	500.0	6.12	5.92	5.62	500.0	38.8	40.3	42.2	38.8	41.6	44.7
500.0	530.0	6.14	5.84	5.74	530.0	38.6	40.3	42.2	38.4	41.6	45.0
525.1	555.1	6.22	5.82	5.72	555.1	38.8	40.5	42.1	38.2	41.5	44.7
600.1	630.1	6.29	5.99	5.79	630.1	39.3	41.3	42.6	37.4	40.2	42.1
675.1	705.1	6.30	6.00	5.80	705.1	38.7	41.0	42.5	35.8	38.0	39.4
750.0	780.0	6.62	6.22	6.02	780.0	37.7	39.6	40.9	33.3	35.5	36.6
825.0	855.0	6.66	6.36	6.06	855.0	35.9	37.7	38.6	31.0	32.7	33.7
900.0	930.0	6.67	6.17	5.87	930.0	34.1	35.7	36.6	29.0	30.2	30.9
970.0	1000.0	6.63	6.13	5.83	1000.0	32.5	34.5	35.4	28.2	29.5	30.5
975.0	1005.0	6.58	6.08	5.78	1005.0	32.5	34.5	35.4	28.2	29.7	30.5
1000.0	1030.0	6.67	6.07	5.77	1030.0	32.2	33.9	35.3	28.0	29.4	30.3
1030.0	1060.0	6.68	6.18	5.88	1060.0	31.7	33.4	34.7	28.0	29.5	30.1
1050.0	1080.0	6.76	6.16	5.86	1080.0	31.6	33.2	34.7	28.1	29.2	30.0

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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
30.5	2.96	2.92	2.88	1.12	1.63	2.43	0.1	1.57	1.32	1.22
31.0	2.04	2.04	2.04	1.10	1.66	2.43	0.2	1.55	1.30	1.20
32.0	1.59	1.59	1.61	1.11	1.65	2.43	0.5	1.61	1.36	1.25
35.0	1.27	1.26	1.28	1.11	1.65	2.40	1.0	1.67	1.40	1.28
40.0	1.15	1.13	1.17	1.14	1.63	2.43	5.0	1.63	1.38	1.27
50.0	1.08	1.06	1.13	1.17	1.63	2.46	10.0	1.64	1.37	1.27
80.0	1.03	1.01	1.14	1.20	1.64	2.37	30.0	1.63	1.37	1.27
105.1	1.05	1.02	1.14	1.17	1.63	2.40	50.0	1.62	1.37	1.27
130.0	1.04	1.03	1.15	1.20	1.63	2.37	100.0	1.65	1.41	1.30
180.1	1.01	1.06	1.17	1.23	1.64	2.46	150.1	1.66	1.44	1.34
255.1	1.04	1.08	1.14	1.21	1.67	2.40	200.1	1.67	1.46	1.37
330.1	1.03	1.11	1.15	1.23	1.69	2.43	250.0	1.66	1.46	1.39
405.1	1.05	1.12	1.17	1.25	1.71	2.46	300.1	1.65	1.47	1.41
480.1	1.10	1.15	1.19	1.23	1.70	2.43	350.1	1.62	1.45	1.40
500.0	1.11	1.17	1.21	1.23	1.74	2.46	400.1	1.59	1.43	1.39
530.0	1.13	1.20	1.25	1.23	1.75	2.49	450.1	1.56	1.41	1.39
555.1	1.14	1.20	1.25	1.23	1.74	2.37	500.0	1.56	1.40	1.39
630.1	1.15	1.20	1.24	1.23	1.78	2.43	550.0	1.55	1.40	1.38
705.1	1.14	1.20	1.23	1.26	1.82	2.58	600.0	1.54	1.40	1.39
780.0	1.15	1.17	1.20	1.31	1.92	2.65	650.0	1.54	1.40	1.39
855.0	1.26	1.25	1.26	1.34	1.99	2.72	700.0	1.54	1.40	1.40
930.0	1.49	1.46	1.45	1.37	1.97	2.68	750.0	1.51	1.40	1.39
1000.0	1.82	1.78	1.76	1.38	1.97	2.72	800.0	1.46	1.37	1.37
1005.0	1.84	1.78	1.76	1.39	2.01	2.68	850.0	1.44	1.35	1.35
1030.0	1.99	1.92	1.89	1.41	2.10	2.92	900.0	1.43	1.33	1.33
1060.0	2.16	2.06	2.03	1.44	2.16	2.92	950.0	1.43	1.33	1.32
1080.0	2.27	2.18	2.10	1.46	2.08	2.80	1000.0	1.43	1.34	1.33