

Frequency Mixer

ADE-ED7047/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+11	+14	+17			+11	+14	+17			+11	+14	+17
10.1	40.1	6.12	5.79	5.63	10.1	40.1	22.09	23.48	24.96	10.1	40.1	1.06	0.90	0.77
50.1	80.1	5.97	5.64	5.47	50.1	80.1	25.01	29.50	26.84	50.1	80.1	1.21	1.00	0.84
90.1	120.1	5.94	5.69	5.59	90.1	120.1	29.00	28.32	29.37	90.1	120.1	1.13	0.91	0.75
130.1	160.1	5.91	5.67	5.56	130.1	160.1	23.51	24.50	25.09	130.1	160.1	1.04	0.83	0.71
170.1	200.1	5.87	5.69	5.61	170.1	200.1	24.65	24.79	27.05	170.1	200.1	1.15	0.89	0.76
210.1	240.1	5.95	5.74	5.63	210.1	240.1	23.17	23.54	25.51	210.1	240.1	0.94	0.73	0.62
250.1	280.1	5.90	5.71	5.62	250.1	280.1	21.29	23.71	25.94	250.1	280.1	0.99	0.78	0.68
290.1	320.1	5.95	5.76	5.66	290.1	320.1	23.35	23.15	23.26	290.1	320.1	0.91	0.73	0.62
330.1	360.1	6.01	5.78	5.63	330.1	360.1	18.57	21.44	25.38	330.1	360.1	0.91	0.75	0.65
370.1	400.1	5.98	5.79	5.67	370.1	400.1	20.36	19.75	20.58	370.1	400.1	1.03	0.83	0.73
410.1	440.1	6.15	5.87	5.72	410.1	440.1	23.01	23.85	25.73	410.1	440.1	0.92	0.74	0.64
450.1	480.1	6.14	5.82	5.64	450.1	480.1	18.47	25.69	31.84	450.1	480.1	1.12	0.98	0.86
490.1	520.1	6.32	6.03	5.78	490.1	520.1	16.63	17.63	22.38	490.1	520.1	1.00	0.87	0.82
530.1	560.1	6.23	6.01	5.83	530.1	560.1	17.83	18.04	19.29	530.1	560.1	1.23	1.04	0.93
570.1	600.1	6.26	6.03	5.84	570.1	600.1	20.44	20.85	22.78	570.1	600.1	1.28	1.08	0.98
610.1	640.1	6.25	5.93	5.73	610.1	640.1	23.33	23.20	24.37	610.1	640.1	1.53	1.27	1.15
650.1	680.1	6.19	5.83	5.67	650.1	680.1	23.22	26.91	30.07	650.1	680.1	1.75	1.42	1.27
690.1	720.1	6.49	5.94	5.71	690.1	720.1	23.77	26.56	27.31	690.1	720.1	1.82	1.61	1.42
730.1	760.1	6.80	6.05	5.73	730.1	760.1	12.86	25.55	25.70	730.1	760.1	1.74	1.74	1.55
770.1	800.1	7.25	6.47	5.92	770.1	800.1	10.80	15.37	28.28	770.1	800.1	1.58	1.67	1.62
810.1	840.1	7.48	6.83	6.16	810.1	840.1	10.76	12.35	18.74	810.1	840.1	1.64	1.64	1.70
850.1	880.1	7.77	7.11	6.47	850.1	880.1	11.34	12.17	15.21	850.1	880.1	1.46	1.49	1.57
890.1	920.1	8.02	7.40	6.79	890.1	920.1	12.23	13.08	14.82	890.1	920.1	1.40	1.44	1.51
930.1	960.1	8.14	7.54	6.94	930.1	960.1	13.43	14.72	16.64	930.1	960.1	1.43	1.45	1.54
970.1	1000.1	8.33	7.70	7.06	970.1	1000.1	13.57	15.57	18.92	970.1	1000.1	1.39	1.39	1.50
1010.1	1040.1	8.31	7.60	6.99	1010.1	1040.1	14.00	17.70	22.67	1010.1	1040.1	1.49	1.49	1.49
1050.1	1080.1	8.28	7.50	6.95	1050.1	1080.1	15.15	22.75	27.97	1050.1	1080.1	1.59	1.54	1.45
1090.1	1120.1	8.16	7.44	6.95	1090.1	1120.1	19.38	25.43	25.31	1090.1	1120.1	1.77	1.56	1.40
1130.1	1160.1	7.98	7.36	7.00	1130.1	1160.1	20.32	20.95	23.03	1130.1	1160.1	1.94	1.58	1.36
1170.1	1200.1	8.05	7.54	7.27	1170.1	1200.1	18.35	19.80	22.73	1170.1	1200.1	1.81	1.36	1.15
1210.1	1240.1	8.06	7.66	7.42	1210.1	1240.1	18.37	20.08	20.97	1210.1	1240.1	1.79	1.31	1.11
1250.1	1280.1	8.41	8.08	7.87	1250.1	1280.1	19.12	21.78	22.02	1250.1	1280.1	1.56	1.08	0.92
1290.1	1320.1	8.58	8.28	8.10	1290.1	1320.1	20.06	22.51	22.31	1290.1	1320.1	1.42	0.94	0.80
1330.1	1360.1	8.96	8.65	8.52	1330.1	1360.1	19.65	22.48	22.75	1330.1	1360.1	1.37	0.81	0.63
1370.1	1400.1	9.20	8.87	8.76	1370.1	1400.1	19.24	21.72	22.31	1370.1	1400.1	1.27	0.70	0.55
1390.1	1420.1	9.21	8.89	8.81	1390.1	1420.1	18.70	21.46	21.92	1390.1	1420.1	1.33	0.71	0.50
1430.1	1460.1	9.86	9.37	9.28	1430.1	1460.1	16.93	20.99	22.25	1430.1	1460.1	1.42	0.66	0.45
1450.1	1480.1	10.00	9.47	9.38	1450.1	1480.1	16.46	20.57	22.06	1450.1	1480.1	1.42	0.69	0.47
1490.1	1520.1	10.28	9.64	9.57	1490.1	1520.1	15.21	19.65	22.24	1490.1	1520.1	1.64	0.81	0.52
1510.1	1540.1	10.84	10.02	9.90	1510.1	1540.1	14.15	19.33	21.66	1510.1	1540.1	1.63	0.81	0.49

Frequency Mixer

ADE-ED7047/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=510.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+14			+14			+14
500.1	10.0	5.98	10.1	20.1	5.77	1000.1	10.0	7.08
487.5	22.6	5.91	50.1	60.1	5.65	979.9	30.2	7.08
475.0	35.1	5.80	90.1	100.1	5.85	959.7	50.4	7.05
462.4	47.7	5.80	130.1	140.1	5.82	939.5	70.6	7.03
449.8	60.3	5.80	170.1	180.1	5.83	919.3	90.8	7.06
437.3	72.8	5.69	210.1	220.1	5.75	899.1	111.0	7.00
424.7	85.4	5.65	250.1	260.1	5.84	878.9	131.2	7.07
412.2	97.9	5.67	290.1	300.1	5.81	858.7	151.4	6.98
399.6	110.5	5.66	330.1	340.1	5.95	838.5	171.6	7.04
387.0	123.1	5.65	370.1	380.1	6.03	818.3	191.8	6.98
374.5	135.6	5.64	410.1	420.1	5.94	798.1	212.0	7.00
361.9	148.2	5.67	450.1	460.1	6.07	777.9	232.2	7.01
349.3	160.8	5.68	490.1	500.1	6.19	757.7	252.4	6.86
336.8	173.3	5.68	530.1	540.1	6.27	737.4	272.7	7.03
324.2	185.9	5.66	570.1	580.1	6.31	717.2	292.9	6.92
311.6	198.5	5.66	610.1	620.1	6.21	697.0	313.1	7.06
299.1	211.0	5.69	650.1	660.1	6.00	676.8	333.3	6.95
286.5	223.6	5.70	690.1	700.1	5.99	656.6	353.5	6.99
273.9	236.2	5.73	730.1	740.1	6.00	636.4	373.7	6.98
261.4	248.7	5.73	770.1	780.1	6.13	616.2	393.9	6.98
248.8	261.3	5.76	810.1	820.1	6.39	595.8	414.3	6.88
236.3	273.8	5.74	850.1	860.1	6.42	575.6	434.5	6.95
223.7	286.4	5.75	890.1	900.1	6.34	555.4	454.7	6.94
211.1	299.0	5.76	930.1	940.1	6.48	535.2	474.9	6.97
198.6	311.5	5.74	970.1	980.1	6.51	515.0	495.1	7.00
186.0	324.1	5.75	1010.1	1020.1	6.48	494.8	515.3	7.10
173.4	336.7	5.78	1050.1	1060.1	6.59	474.6	535.5	7.10
160.9	349.2	5.82	1090.1	1100.1	6.46	454.4	555.7	6.91
148.3	361.8	5.85	1130.1	1140.1	6.39	434.2	575.9	6.91
135.7	374.4	5.85	1170.1	1180.1	6.46	414.0	596.1	6.86
123.2	386.9	5.87	1210.1	1220.1	6.61	393.8	616.3	6.78
110.6	399.5	5.87	1250.1	1260.1	6.87	373.6	636.5	6.78
98.0	412.1	5.84	1290.1	1300.1	6.86	353.4	656.7	6.49
85.5	424.6	5.82	1330.1	1340.1	7.01	333.2	676.9	6.52
72.9	437.2	5.85	1370.1	1380.1	7.26	313.0	697.1	6.60
60.4	449.7	5.85	1410.1	1420.1	7.52	292.8	717.3	6.60
47.8	462.3	5.80	1450.1	1460.1	8.01	272.6	737.5	6.61
35.2	474.9	5.83	1490.1	1500.1	8.43	252.4	757.7	6.97
22.7	487.4	5.87	1530.1	1540.1	8.93	232.2	777.9	7.12
10.1	500.0	5.94	1550.1	1560.1	9.50	212.0	798.1	7.12
						191.8	818.3	7.45
						171.6	838.5	7.67
						151.4	858.7	7.89
						131.2	878.9	7.90
						111.0	899.1	7.88
						90.8	919.3	7.84
						70.6	939.5	
						50.4	959.7	
						30.2	979.9	
						10.0	1000.1	

REV. X3

ADE-ED7047/1

101013

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+11	+14	+17	+11	+14	+17			+11	+14	+17
40.1	52.04	51.57	51.02	66.45	60.91	58.00	10.1	40.1	49.28	49.16	49.76
80.1	47.43	47.41	47.37	80.44	69.48	66.66	50.1	80.1	36.44	37.01	37.43
120.1	44.40	44.49	44.49	60.95	59.80	65.19	90.1	120.1	32.25	32.42	32.69
160.1	42.32	42.50	42.50	50.08	51.62	56.57	130.1	160.1	29.80	30.10	30.30
200.1	40.63	40.72	40.61	45.30	47.77	52.53	170.1	200.1	28.01	28.36	28.50
240.1	39.35	39.50	39.41	42.25	45.33	50.12	210.1	240.1	26.87	27.02	27.24
280.1	38.10	38.07	38.05	39.92	42.90	47.12	250.1	280.1	25.92	26.23	26.44
320.1	37.51	37.52	37.51	38.23	41.51	45.82	290.1	320.1	25.40	25.78	25.86
360.1	36.49	36.61	36.45	36.61	39.72	43.78	330.1	360.1	24.90	25.43	25.74
400.1	35.56	35.61	35.67	35.31	38.50	42.33	370.1	400.1	24.66	25.00	25.29
440.1	34.95	34.86	34.91	34.25	37.29	40.89	410.1	440.1	24.36	24.92	25.20
480.1	34.50	34.37	34.37	33.80	36.99	40.50	450.1	480.1	24.19	24.71	25.33
520.1	34.43	34.30	34.17	33.37	36.57	39.77	490.1	520.1	24.41	24.92	25.57
560.1	34.36	34.32	34.08	32.72	35.74	38.54	530.1	560.1	24.63	25.23	25.89
600.1	33.86	33.67	33.37	31.98	34.77	37.12	570.1	600.1	24.98	25.67	26.44
640.1	33.94	33.59	33.32	31.25	33.67	35.30	610.1	640.1	24.90	25.61	26.36
680.1	33.36	32.99	32.68	30.61	32.53	33.69	650.1	680.1	24.36	24.95	25.27
720.1	33.68	33.13	32.68	29.92	31.67	32.47	690.1	720.1	23.15	23.58	23.72
760.1	33.06	32.46	32.05	29.50	31.08	31.42	730.1	760.1	22.25	22.24	22.32
800.1	32.85	32.43	31.87	29.07	30.90	30.57	770.1	800.1	21.67	21.66	21.50
840.1	32.61	32.27	31.78	28.86	30.80	30.47	810.1	840.1	21.31	21.34	21.22
880.1	32.27	31.95	31.52	28.44	30.11	30.09	850.1	880.1	21.39	21.41	21.67
920.1	32.24	32.12	31.93	28.12	29.47	29.54	890.1	920.1	21.50	21.45	21.63
960.1	31.57	31.46	31.17	28.00	28.94	28.59	930.1	960.1	21.66	21.55	21.55
1000.1	31.65	31.45	31.13	27.71	27.93	26.87	970.1	1000.1	21.47	21.29	20.92
1040.1	31.18	30.86	30.69	27.77	26.99	25.41	1010.1	1040.1	20.92	20.39	19.64
1080.1	31.08	30.72	30.53	27.74	25.69	23.83	1050.1	1080.1	19.91	19.20	18.63
1120.1	30.88	30.61	30.28	26.97	24.22	22.62	1090.1	1120.1	18.64	18.11	17.72
1160.1	30.59	30.07	29.56	25.87	22.97	21.66	1130.1	1160.1	17.52	17.13	16.79
1200.1	30.55	29.82	29.11	25.15	22.36	20.94	1170.1	1200.1	16.42	16.06	15.74
1240.1	29.95	29.12	28.30	24.91	22.01	20.44	1210.1	1240.1	15.37	15.00	14.67
1280.1	29.46	28.66	27.76	24.44	21.56	19.81	1250.1	1280.1	14.40	14.00	13.65
1320.1	28.54	27.90	26.97	23.46	21.00	19.20	1290.1	1320.1	13.49	13.01	12.66
1360.1	27.47	27.20	26.29	22.21	20.52	18.73	1330.1	1360.1	12.68	12.08	11.70
1400.1	26.47	26.38	25.51	20.63	19.56	17.96	1370.1	1400.1	11.88	11.27	10.83
1420.1	25.70	25.80	25.03	19.84	19.23	17.87	1390.1	1420.1	11.48	10.82	10.37
1460.1	24.32	24.90	24.34	18.13	18.47	17.38	1430.1	1460.1	10.93	10.17	9.65
1480.1	23.84	24.58	24.13	17.50	18.01	17.03	1450.1	1480.1	10.53	9.80	9.33
1520.1	22.72	23.67	23.30	16.40	17.33	16.55	1490.1	1520.1	9.88	9.17	8.69
1540.1	21.98	23.12	22.93	15.66	16.94	16.46	1510.1	1540.1	9.67	8.91	8.36

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=1000MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+11	+14	+17		+11	+14	+17	+11		+14	+17		
10.1	40.1	1.23	1.30	1.30	40.1	2.80	9.90	20.95	10.0	2.44	2.10	1.78		
50.1	80.1	1.04	1.06	1.14	80.1	1.87	3.20	5.77	30.0	2.49	2.14	1.81		
90.1	120.1	1.04	1.09	1.14	120.1	1.84	3.04	4.95	50.0	2.47	2.12	1.79		
130.1	160.1	1.05	1.10	1.15	160.1	1.75	2.79	4.32	70.0	2.47	2.13	1.80		
170.1	200.1	1.08	1.12	1.17	200.1	1.72	2.68	4.01	90.0	2.52	2.17	1.83		
210.1	240.1	1.10	1.13	1.17	240.1	1.77	2.75	4.07	110.0	2.52	2.17	1.84		
250.1	280.1	1.11	1.14	1.18	280.1	1.73	2.61	3.79	130.0	2.47	2.13	1.81		
290.1	320.1	1.12	1.15	1.18	320.1	1.81	2.72	3.91	150.0	2.50	2.16	1.83		
330.1	360.1	1.13	1.15	1.20	360.1	1.80	2.66	3.76	170.0	2.55	2.21	1.88		
370.1	400.1	1.15	1.15	1.18	400.1	1.85	2.73	3.84	190.0	2.51	2.17	1.85		
410.1	440.1	1.16	1.16	1.19	440.1	1.89	2.72	3.78	210.0	2.50	2.17	1.85		
450.1	480.1	1.18	1.18	1.22	480.1	1.94	2.78	3.82	230.0	2.53	2.20	1.88		
490.1	520.1	1.21	1.19	1.21	520.1	2.00	2.85	3.91	250.0	2.57	2.24	1.92		
530.1	560.1	1.22	1.21	1.22	560.1	2.01	2.83	3.86	270.0	2.53	2.20	1.89		
570.1	600.1	1.24	1.23	1.24	600.1	2.08	2.90	3.93	290.0	2.55	2.22	1.91		
610.1	640.1	1.25	1.25	1.27	640.1	2.11	2.86	3.85	310.0	2.57	2.24	1.93		
650.1	680.1	1.27	1.28	1.30	680.1	2.25	3.01	4.01	330.0	2.54	2.22	1.92		
690.1	720.1	1.32	1.31	1.32	720.1	2.39	3.13	4.09	350.0	2.55	2.23	1.93		
730.1	760.1	1.41	1.35	1.36	760.1	2.50	3.30	4.23	370.0	2.59	2.28	1.98		
770.1	800.1	1.53	1.45	1.43	800.1	2.59	3.43	4.38	390.0	2.57	2.26	1.96		
810.1	840.1	1.64	1.56	1.51	840.1	2.62	3.47	4.43	430.0	2.56	2.25	1.96		
850.1	880.1	1.78	1.70	1.63	880.1	2.72	3.57	4.56	450.0	2.57	2.28	1.99		
890.1	920.1	1.94	1.86	1.79	920.1	2.76	3.58	4.56	490.0	2.46	2.18	1.91		
930.1	960.1	2.11	2.03	1.96	960.1	2.83	3.63	4.60	510.0	2.51	2.23	1.95		
970.1	1000.1	2.30	2.21	2.13	1000.1	2.89	3.66	4.60	550.0	2.43	2.17	1.91		
1010.1	1040.1	2.46	2.37	2.29	1040.1	2.93	3.65	4.55	570.0	2.42	2.16	1.91		
1050.1	1080.1	2.61	2.52	2.45	1080.1	2.98	3.68	4.59	610.0	2.37	2.12	1.87		
1090.1	1120.1	2.75	2.67	2.61	1120.1	3.05	3.72	4.61	630.0	2.37	2.13	1.89		
1130.1	1160.1	2.85	2.79	2.75	1160.1	3.14	3.78	4.67	670.0	2.28	2.04	1.80		
1170.1	1200.1	2.98	2.94	2.90	1200.1	3.35	3.98	4.86	690.0	2.26	2.02	1.79		
1210.1	1240.1	3.10	3.07	3.03	1240.1	3.62	4.15	4.93	730.0	2.24	2.01	1.78		
1250.1	1280.1	3.23	3.21	3.18	1280.1	4.01	4.42	5.14	750.0	2.16	1.93	1.72		
1290.1	1320.1	3.35	3.33	3.30	1320.1	4.45	4.70	5.33	790.0	2.16	1.94	1.72		
1330.1	1360.1	3.43	3.38	3.36	1360.1	4.98	4.96	5.46	810.0	2.09	1.87	1.66		
1370.1	1400.1	3.52	3.45	3.42	1400.1	5.51	5.33	5.74	850.0	2.06	1.85	1.64		
1390.1	1420.1	3.54	3.47	3.43	1420.1	5.77	5.47	5.77	870.0	2.01	1.80	1.59		
1430.1	1460.1	3.65	3.50	3.45	1460.1	6.37	5.79	5.95	910.0	1.98	1.78	1.59		
1450.1	1480.1	3.65	3.48	3.42	1480.1	6.46	5.93	6.09	930.0	1.96	1.76	1.56		
1490.1	1520.1	3.70	3.48	3.40	1520.1	6.66	6.11	6.13	970.0	1.89	1.69	1.50		
1510.1	1540.1	3.75	3.48	3.39	1540.1	6.73	6.17	6.15	990.0	1.95	1.75	1.57		

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	19	8	28	18	35	32	45	43	59
1	-	19	+0	32	12	37	32	38	36	39	44	47
2	76	52	58	53	59	51	51	61	61	67	72	74
3	>90	62	55	61	53	62	51	66	62	>78	65	77
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 505 MHz; -6.00 dBm.

LO IN: 535 MHz; +14.00 dBm

IF OUT: 30 MHz; -12.13 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	29	19	41	31	45	44	56	55	71
1	-	20	+0	29	12	37	31	42	39	46	50	55
2	56	49	52	50	59	47	44	52	52	61	61	85
3	85	48	40	50	41	57	39	55	52	58	49	57
4	>90	70	63	62	65	62	69	59	69	>88	69	70
5	>90	66	65	60	53	58	48	56	46	58	58	65
6	>90	>88	77	>88	79	73	68	72	69	69	76	75
7	>90	77	84	80	76	72	85	75	71	71	65	74
8	>90	>88	>88	>88	>88	>88	81	>88	75	83	74	80
9	>90	>88	>88	>88	>88	>88	>88	79	83	77	76	75
10	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	85	84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 505 MHz; 4.00 dBm.

LO IN: 535 MHz; +14.00 dBm

IF OUT: 30 MHz; -2.08 dBm

Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.

2. + entry denotes harmonics are in (dBc) above IF OUTPUT.

3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

REV. X3

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