

Frequency Mixer

ADE-ED12962/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
80.1	10.1	6.69	6.46	6.36
120.1	50.1	6.78	6.52	6.40
160.1	90.1	6.76	6.50	6.36
200.1	130.1	6.52	6.33	6.30
240.1	170.1	6.59	6.44	6.37
290.1	220.1	6.45	6.34	6.28
330.1	260.1	6.53	6.41	6.34
380.1	310.1	6.46	6.32	6.24
420.1	350.1	6.55	6.40	6.33
470.1	400.1	6.48	6.33	6.23
510.1	440.1	6.52	6.32	6.21
560.1	490.1	6.47	6.26	6.13
600.1	530.1	6.46	6.26	6.13
650.1	580.1	6.34	6.13	6.04
690.1	620.1	6.42	6.17	6.07
740.1	670.1	6.47	6.24	6.11
780.1	710.1	6.62	6.38	6.21
830.1	760.1	6.61	6.34	6.15
870.1	800.1	6.57	6.24	6.05
920.1	850.1	6.41	6.09	5.93
960.1	890.1	6.33	6.00	5.85
1010.1	940.1	6.58	6.06	5.84
1050.1	980.1	6.63	5.99	5.73
1100.1	1030.1	6.93	6.23	5.87
1140.1	1070.1	6.91	6.26	5.88
1190.1	1120.1	7.20	6.63	6.19
1230.1	1160.1	7.26	6.76	6.36
1280.1	1210.1	7.51	7.04	6.67
1320.1	1250.1	7.67	7.22	6.88
1370.1	1300.1	7.85	7.43	7.14
1410.1	1340.1	7.93	7.54	7.28
1460.1	1390.1	8.20	7.90	7.72
1500.1	1430.1	8.25	8.03	7.92
1550.1	1480.1	8.71	8.54	8.47
1590.1	1520.1	8.88	8.75	8.71
1640.1	1570.1	9.44	9.31	9.25
1680.1	1610.1	9.67	9.54	9.49
1730.1	1660.1	10.24	10.12	10.05
1770.1	1700.1	10.48	10.36	10.28
1820.1	1750.1	10.93	10.85	10.79

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
80.1	10.1	22.73	25.51	28.66
120.1	50.1	23.57	27.63	28.05
160.1	90.1	23.68	26.79	24.41
200.1	130.1	24.98	23.61	28.59
240.1	170.1	21.22	23.48	28.05
290.1	220.1	22.04	26.70	34.36
330.1	260.1	22.00	26.51	32.35
380.1	310.1	23.56	30.19	28.07
420.1	350.1	24.56	31.14	27.28
470.1	400.1	23.64	28.95	27.24
510.1	440.1	23.88	28.14	26.37
560.1	490.1	22.25	27.04	24.14
600.1	530.1	24.22	24.47	23.43
650.1	580.1	22.69	22.89	23.15
690.1	620.1	26.82	22.87	22.44
740.1	670.1	22.01	27.28	23.97
780.1	710.1	22.39	25.59	25.59
830.1	760.1	22.56	24.58	24.30
870.1	800.1	24.31	24.40	23.01
920.1	850.1	22.99	22.46	21.87
960.1	890.1	20.89	21.48	21.50
1010.1	940.1	20.92	18.92	19.30
1050.1	980.1	19.49	18.93	18.35
1100.1	1030.1	17.39	18.28	17.44
1140.1	1070.1	16.67	17.42	16.79
1190.1	1120.1	15.11	16.26	16.15
1230.1	1160.1	14.14	15.26	15.81
1280.1	1210.1	14.05	15.31	16.42
1320.1	1250.1	13.85	15.35	16.75
1370.1	1300.1	14.66	16.65	17.84
1410.1	1340.1	16.05	18.24	19.38
1460.1	1390.1	17.97	19.76	20.66
1500.1	1430.1	20.13	21.53	22.40
1550.1	1480.1	21.45	22.51	22.92
1590.1	1520.1	23.04	24.07	23.89
1640.1	1570.1	23.60	25.02	25.58
1680.1	1610.1	23.86	24.79	26.07
1730.1	1660.1	23.92	23.17	25.53
1770.1	1700.1	23.80	23.81	25.76
1820.1	1750.1	22.94	23.00	24.85

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
80.1	10.1	1.06	0.93	0.85
120.1	50.1	0.89	0.79	0.65
160.1	90.1	0.96	0.84	0.72
200.1	130.1	1.05	0.91	0.75
240.1	170.1	0.97	0.83	0.69
290.1	220.1	0.99	0.85	0.73
330.1	260.1	0.99	0.87	0.77
380.1	310.1	1.02	0.90	0.78
420.1	350.1	1.00	0.88	0.78
470.1	400.1	1.04	0.94	0.85
510.1	440.1	1.10	0.99	0.91
560.1	490.1	1.19	1.11	1.02
600.1	530.1	1.33	1.22	1.12
650.1	580.1	1.53	1.37	1.24
690.1	620.1	1.58	1.41	1.30
740.1	670.1	1.69	1.55	1.43
780.1	710.1	1.72	1.59	1.48
830.1	760.1	1.93	1.83	1.73
870.1	800.1	2.16	2.03	1.94
920.1	850.1	2.48	2.33	2.19
960.1	890.1	2.64	2.46	2.31
1010.1	940.1	2.77	2.69	2.54
1050.1	980.1	2.79	2.82	2.67
1100.1	1030.1	2.67	2.77	2.67
1140.1	1070.1	2.73	2.77	2.70
1190.1	1120.1	2.57	2.58	2.53
1230.1	1160.1	2.57	2.53	2.46
1280.1	1210.1	2.40	2.34	2.24
1320.1	1250.1	2.31	2.22	2.10
1370.1	1300.1	2.17	2.04	1.95
1410.1	1340.1	2.17	1.99	1.82
1460.1	1390.1	2.02	1.79	1.64
1500.1	1430.1	1.91	1.65	1.51
1550.1	1480.1	1.61	1.38	1.27
1590.1	1520.1	1.41	1.22	1.14
1640.1	1570.1	1.11	0.94	0.89
1680.1	1610.1	0.93	0.78	0.76
1730.1	1660.1	0.70	0.55	0.54
1770.1	1700.1	0.62	0.47	0.46
1820.1	1750.1	0.55	0.38	0.37

Frequency Mixer

ADE-ED12962/2

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=389.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=610.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
488.0	12.0	6.52	10.1	400.0	6.57	600.1	10.0	6.53
459.3	40.7	6.38	50.1	440.0	6.41	580.1	30.0	6.37
430.6	69.4	6.30	90.1	480.0	6.47	560.1	50.0	6.35
402.0	98.0	6.26	130.1	520.0	6.55	550.1	60.0	6.29
373.3	126.7	6.23	170.1	560.0	6.59	530.1	80.0	6.29
344.6	155.4	6.27	210.1	600.0	6.56	520.1	90.0	6.22
315.9	184.1	6.26	250.1	640.0	6.63	500.1	110.0	6.23
287.2	212.8	6.26	290.1	680.0	6.68	490.1	120.0	6.19
268.1	231.9	6.25	330.1	720.0	6.83	470.1	140.0	6.20
239.4	260.6	6.26	370.1	760.0	6.96	460.1	150.0	6.19
220.3	279.7	6.24	410.1	800.0	6.98	440.1	170.0	6.16
191.6	308.4	6.24	450.1	840.0	6.97	430.1	180.0	6.14
172.5	327.5	6.27	490.1	880.0	6.94	410.1	200.0	6.21
143.8	356.2	6.32	530.1	920.0	6.96	400.1	210.0	6.21
124.7	375.3	6.29	570.1	960.0	7.03	380.1	230.0	6.19
96.0	404.0	6.34	610.1	1000.0	7.08	370.1	240.0	6.21
76.9	423.1	6.33	650.1	1040.0	7.16	350.1	260.0	6.19
48.2	451.8	6.32	690.1	1080.0	7.23	340.1	270.0	6.21
29.1	470.9	6.35	730.1	1120.0	7.32	320.1	290.0	6.18
10.0	510.0	6.58	770.1	1160.0	7.42	310.1	300.0	6.22
71.7	571.7	6.42	810.1	1200.0	7.46	290.1	320.0	6.18
164.2	664.2	6.49	850.1	1240.0	7.54	280.1	330.0	6.19
225.9	725.9	6.67	890.1	1280.0	7.58	260.1	350.0	6.18
318.4	818.4	6.77	930.1	1320.0	7.49	250.1	360.0	6.18
380.1	880.1	6.87	970.1	1360.0	7.50	230.1	380.0	6.20
472.6	972.6	7.06	1010.1	1400.0	7.37	220.1	390.0	6.20
534.3	1034.3	7.22	1050.1	1440.0	7.36	200.1	410.0	6.24
626.8	1126.8	7.43	1090.1	1480.0	7.37	190.1	420.0	6.22
688.5	1188.5	7.54	1130.1	1520.0	7.37	170.1	440.0	6.21
781.0	1281.0	7.62	1170.1	1560.0	7.51	160.1	450.0	6.18
842.7	1342.7	7.43	1210.1	1600.0	7.57	140.1	470.0	6.22
935.2	1435.2	7.13	1250.1	1640.0	7.70	130.1	480.0	6.20
996.9	1496.9	7.08	1290.1	1680.0	7.89	110.1	500.0	6.26
1089.4	1589.4	7.19	1330.1	1720.0	8.00	100.1	510.0	6.26
1151.1	1651.1	7.30	1370.1	1760.0	8.31	80.1	530.0	6.25
1243.6	1743.6	7.58	1410.1	1800.0	8.48	70.1	540.0	6.29
1305.3	1805.3	7.87	1450.1	1840.0	8.81	50.1	560.0	6.20
1397.8	1897.8	8.40	1490.1	1880.0	9.22	40.1	570.0	6.21
1459.5	1959.5	9.14	1530.1	1920.0	9.65	20.1	590.0	6.24
1552.0	2052.0	10.82	1590.1	1980.0	10.43	10.1	600.0	6.42

REV. X2

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
10.1	85.37	78.58	75.45	66.11	64.89	64.14
50.1	62.72	63.23	63.50	58.27	55.66	53.88
90.1	59.03	59.86	60.72	55.07	52.40	50.45
130.1	55.38	56.08	56.28	50.50	48.40	47.60
170.1	54.66	55.74	56.51	47.71	46.61	45.61
220.1	53.56	54.56	55.24	45.45	44.55	43.56
260.1	51.41	52.54	53.16	43.93	43.19	42.32
310.1	50.54	51.72	52.74	42.62	41.74	40.73
350.1	48.67	49.81	50.81	41.38	40.60	39.73
400.1	47.98	49.29	50.56	39.99	39.18	38.18
440.1	48.13	49.52	50.83	39.21	38.45	37.48
490.1	46.60	47.82	48.70	38.09	37.37	36.30
530.1	45.50	46.73	47.60	37.53	36.79	35.56
580.1	43.73	44.86	45.81	37.33	36.26	35.13
620.1	42.02	43.15	44.02	36.67	35.58	34.50
670.1	40.68	41.99	43.10	35.59	34.20	33.07
710.1	39.48	40.59	41.54	34.95	33.46	32.15
760.1	38.93	39.72	40.21	34.02	32.43	31.17
800.1	38.52	39.14	39.39	32.86	31.21	30.05
850.1	37.99	38.46	38.48	31.80	30.26	29.21
890.1	37.50	37.86	37.87	31.03	29.48	28.36
940.1	37.77	38.49	39.03	30.31	28.90	27.69
980.1	37.45	38.25	38.81	29.07	28.06	26.91
1030.1	36.70	37.45	37.73	28.30	27.41	26.36
1070.1	36.93	37.49	37.79	27.42	26.54	25.61
1120.1	37.20	37.44	37.03	27.20	26.09	25.10
1160.1	37.61	37.93	37.46	26.91	25.60	24.57
1210.1	38.82	39.45	39.42	26.60	25.04	23.84
1250.1	38.91	39.14	38.84	26.59	24.77	23.40
1300.1	38.54	37.64	36.83	25.91	23.76	22.40
1340.1	37.43	35.86	35.01	25.55	23.16	21.82
1390.1	35.75	34.04	33.62	24.23	22.04	21.03
1430.1	34.10	32.47	32.17	23.53	21.54	20.69
1480.1	32.84	30.92	30.00	23.09	21.30	20.14
1520.1	31.70	29.83	28.98	22.69	20.97	19.87
1570.1	30.63	28.44	27.21	22.45	20.70	19.51
1610.1	29.57	27.52	26.36	21.97	20.41	19.33
1660.1	28.46	26.50	25.31	21.43	20.05	19.02
1700.1	27.35	25.55	24.37	21.02	19.90	18.79
1750.1	26.30	24.77	23.67	20.35	19.68	18.70

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
80.1	10.1	31.00	30.66	30.76
120.1	50.1	27.68	27.57	27.52
160.1	90.1	25.39	25.49	25.40
200.1	130.1	23.81	23.87	23.97
240.1	170.1	22.78	22.78	22.86
290.1	220.1	21.86	21.86	21.92
330.1	260.1	21.25	21.37	21.33
380.1	310.1	21.03	21.07	21.04
420.1	350.1	20.83	20.94	21.01
470.1	400.1	20.68	20.85	20.95
510.1	440.1	20.67	20.77	20.89
560.1	490.1	20.41	20.65	20.85
600.1	530.1	20.50	20.79	21.06
650.1	580.1	20.95	21.54	21.84
690.1	620.1	20.41	20.88	21.21
740.1	670.1	18.69	18.78	18.83
780.1	710.1	17.41	17.39	17.35
830.1	760.1	16.14	16.09	16.06
870.1	800.1	15.11	15.03	14.97
920.1	850.1	14.46	14.43	14.45
960.1	890.1	14.20	14.22	14.25
1010.1	940.1	14.01	13.95	14.02
1050.1	980.1	13.96	13.93	14.01
1100.1	1030.1	14.00	13.94	13.95
1140.1	1070.1	13.97	13.88	13.87
1190.1	1120.1	13.84	13.79	13.73
1230.1	1160.1	13.66	13.65	13.62
1280.1	1210.1	13.37	13.34	13.19
1320.1	1250.1	12.95	12.85	12.65
1370.1	1300.1	12.21	12.02	11.73
1410.1	1340.1	11.39	11.12	10.88
1460.1	1390.1	10.33	10.02	9.82
1500.1	1430.1	9.45	9.16	8.97
1550.1	1480.1	8.46	8.18	7.98
1590.1	1520.1	7.58	7.32	7.16
1640.1	1570.1	6.78	6.55	6.37
1680.1	1610.1	6.21	5.96	5.82
1730.1	1660.1	5.68	5.44	5.26
1770.1	1700.1	5.28	5.05	4.89
1820.1	1750.1	4.86	4.60	4.47

Frequency Mixer

ADE-ED12962/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=530MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+14	+17	+20		+14	+17	+20	+14		+17	+20		
80.1	10.1	1.38	1.31	1.26	10.1	1.82	2.93	4.68	10.1	1.13	1.26	1.37		
120.1	50.1	1.39	1.32	1.26	50.1	2.43	5.17	15.81	22.9	1.11	1.22	1.33		
160.1	90.1	1.39	1.32	1.26	90.1	1.87	2.93	4.60	35.7	1.08	1.19	1.31		
200.1	130.1	1.37	1.29	1.26	130.1	1.93	3.02	4.60	48.6	1.09	1.20	1.32		
240.1	170.1	1.36	1.30	1.27	170.1	1.82	2.70	3.93	61.4	1.07	1.18	1.29		
290.1	220.1	1.34	1.30	1.27	220.1	1.88	2.80	4.00	74.2	1.12	1.25	1.37		
330.1	260.1	1.35	1.31	1.28	260.1	1.84	2.69	3.79	87.0	1.07	1.19	1.30		
380.1	310.1	1.35	1.31	1.28	310.1	1.93	2.82	3.95	99.8	1.14	1.27	1.39		
420.1	350.1	1.35	1.31	1.28	350.1	1.93	2.79	3.86	112.7	1.08	1.18	1.29		
470.1	400.1	1.35	1.31	1.28	400.1	2.01	2.88	3.94	125.5	1.09	1.21	1.32		
510.1	440.1	1.36	1.31	1.28	440.1	2.04	2.90	3.95	138.3	1.07	1.15	1.26		
560.1	490.1	1.35	1.31	1.27	490.1	2.13	3.01	4.04	151.1	1.06	1.18	1.29		
600.1	530.1	1.33	1.29	1.26	530.1	2.18	3.05	4.08	163.9	1.09	1.20	1.31		
650.1	580.1	1.28	1.24	1.21	580.1	2.27	3.16	4.18	176.8	1.06	1.18	1.29		
690.1	620.1	1.28	1.23	1.20	620.1	2.33	3.22	4.26	189.6	1.12	1.22	1.33		
740.1	670.1	1.27	1.23	1.20	670.1	2.44	3.34	4.38	202.4	1.06	1.15	1.25		
780.1	710.1	1.26	1.23	1.20	710.1	2.52	3.43	4.46	215.2	1.10	1.20	1.30		
830.1	760.1	1.25	1.21	1.18	760.1	2.58	3.48	4.50	228.0	1.06	1.12	1.22		
870.1	800.1	1.22	1.18	1.15	800.1	2.66	3.58	4.60	240.9	1.06	1.16	1.27		
920.1	850.1	1.19	1.14	1.10	850.1	2.73	3.63	4.62	253.7	1.06	1.12	1.22		
960.1	890.1	1.19	1.12	1.08	890.1	2.87	3.79	4.79	266.5	1.04	1.15	1.26		
1010.1	940.1	1.26	1.17	1.12	940.1	2.99	3.89	4.86	279.3	1.08	1.16	1.26		
1050.1	980.1	1.34	1.24	1.18	980.1	3.10	4.02	5.00	292.2	1.05	1.14	1.24		
1100.1	1030.1	1.43	1.34	1.29	1030.1	3.20	4.13	5.09	305.0	1.10	1.17	1.26		
1140.1	1070.1	1.52	1.44	1.39	1070.1	3.27	4.19	5.13	317.8	1.06	1.09	1.18		
1190.1	1120.1	1.65	1.59	1.53	1120.1	3.40	4.33	5.28	330.6	1.06	1.13	1.23		
1230.1	1160.1	1.75	1.70	1.65	1160.1	3.43	4.33	5.22	343.4	1.06	1.07	1.16		
1280.1	1210.1	1.85	1.80	1.76	1210.1	3.55	4.45	5.39	356.3	1.03	1.13	1.23		
1320.1	1250.1	1.96	1.92	1.88	1250.1	3.56	4.40	5.23	369.1	1.07	1.09	1.18		
1370.1	1300.1	2.04	2.01	1.98	1300.1	3.63	4.50	5.41	381.9	1.03	1.12	1.22		
1410.1	1340.1	2.13	2.09	2.07	1340.1	3.65	4.47	5.31	394.7	1.10	1.11	1.19		
1460.1	1390.1	2.20	2.17	2.15	1390.1	3.67	4.51	5.42	407.5	1.05	1.07	1.16		
1500.1	1430.1	2.24	2.22	2.20	1430.1	3.76	4.61	5.49	420.4	1.09	1.09	1.17		
1550.1	1480.1	2.24	2.22	2.20	1480.1	3.83	4.67	5.54	433.2	1.08	1.03	1.12		
1590.1	1520.1	2.25	2.22	2.20	1520.1	4.06	4.86	5.68	446.0	1.05	1.08	1.18		
1640.1	1570.1	2.21	2.18	2.15	1570.1	4.20	4.89	5.63	458.8	1.08	1.03	1.12		
1680.1	1610.1	2.17	2.14	2.12	1610.1	4.45	5.12	5.83	471.6	1.04	1.09	1.19		
1730.1	1660.1	2.12	2.08	2.06	1660.1	4.63	5.13	5.72	484.5	1.10	1.05	1.12		
1770.1	1700.1	2.07	2.04	2.02	1700.1	4.88	5.34	5.93	497.3	1.06	1.06	1.15		
1820.1	1750.1	2.01	1.97	1.95	1750.1	5.04	5.36	5.79	510.1	1.12	1.05	1.11		

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	27	17	37	18	36	26	40	24	38
1	-	15	+0	29	12	37	17	34	36	41	53	43
2	74	>79	52	>79	53	74	55	78	56	71	65	71
3	>90	73	>79	>79	68	>79	62	>79	62	>79	76	>79
4	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
5	>90	>79	>79	>79	>79	>79	78	>79	78	>79	>79	>79
6	>90	>79	>79	>79	>79	>79	>79	77	>79	>79	>79	>79
7	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500 MHz; -5.00 dBm.
LO IN: 430 MHz; +17.00 dBm
IF OUT: 70 MHz; -11.35 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	19	37	28	48	29	48	37	52	36	50
1	-	15	+0	28	12	37	18	37	36	46	50	49
2	54	69	42	72	43	64	44	69	49	76	56	68
3	82	50	51	65	51	63	43	62	43	51	72	56
4	>90	>89	73	74	68	>89	74	86	65	85	62	71
5	>90	66	67	68	58	66	54	64	57	66	54	62
6	>90	>89	86	>89	74	78	72	86	72	>89	69	>89
7	>90	88	>89	86	81	81	69	83	69	80	67	76
8	>90	>89	>89	>89	>89	>89	>89	83	>89	86	86	>89
9	>90	>89	>89	>89	>89	>89	>89	>89	>89	87	84	85
10	>90	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500 MHz; 5.00 dBm.
LO IN: 430 MHz; +17.00 dBm
IF OUT: 70 MHz; -1.36 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.

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