

Frequency Mixer

ADE-ED7640/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	19.79	10.52	7.56
70.1	100.1	9.58	7.63	6.94
130.1	160.1	9.31	7.54	6.92
190.1	220.1	8.50	7.28	6.78
250.1	280.1	8.48	7.27	6.85
310.1	340.1	8.35	7.17	6.82
350.1	380.1	7.92	7.14	6.86
410.1	440.1	7.94	7.20	6.93
450.1	480.1	7.82	7.18	6.90
510.1	540.1	7.91	7.29	6.96
550.1	580.1	7.96	7.35	7.06
610.1	640.1	8.01	7.30	6.95
650.1	680.1	8.02	7.31	6.94
710.1	740.1	8.17	7.58	7.18
750.1	780.1	8.26	7.74	7.37
810.1	840.1	8.36	7.86	7.51
850.1	880.1	8.39	7.75	7.33
910.1	940.1	8.36	7.57	7.15
950.1	980.1	8.45	7.51	7.07
1010.1	1040.1	8.83	7.61	7.09
1050.1	1080.1	9.11	7.74	7.07
1110.1	1140.1	9.34	7.91	7.08
1150.1	1180.1	9.46	8.10	7.13
1210.1	1240.1	9.45	8.31	7.36
1250.1	1280.1	9.41	8.41	7.52
1310.1	1340.1	9.22	8.40	7.65
1350.1	1380.1	9.12	8.35	7.63
1410.1	1440.1	8.87	8.07	7.37
1450.1	1480.1	8.69	7.88	7.20
1510.1	1540.1	8.43	7.61	7.11
1550.1	1580.1	8.30	7.64	7.25
1610.1	1640.1	8.40	7.98	7.70
1650.1	1680.1	8.58	8.23	8.00
1710.1	1740.1	8.94	8.67	8.47
1750.1	1780.1	9.18	8.95	8.76
1810.1	1840.1	9.57	9.37	9.20
1850.1	1880.1	9.86	9.67	9.53
1910.1	1940.1	10.38	10.17	10.02
1950.1	1980.1	10.75	10.52	10.38
2010.1	2040.1	11.25	10.99	10.85

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	-3.76	5.03	12.91
70.1	100.1	8.59	14.09	18.55
130.1	160.1	10.60	15.41	17.35
190.1	220.1	12.06	16.43	16.33
250.1	280.1	11.42	16.03	16.36
310.1	340.1	11.73	14.04	16.28
350.1	380.1	13.86	15.23	17.97
410.1	440.1	13.40	14.87	16.04
450.1	480.1	11.82	15.47	18.28
510.1	540.1	10.93	12.12	15.08
550.1	580.1	12.27	14.33	16.02
610.1	640.1	13.40	18.25	20.15
650.1	680.1	12.32	18.49	20.63
710.1	740.1	12.64	13.41	17.44
750.1	780.1	13.04	13.47	14.68
810.1	840.1	13.41	14.74	16.20
850.1	880.1	13.97	16.02	19.19
910.1	940.1	14.76	20.07	21.93
950.1	980.1	13.19	21.74	21.77
1010.1	1040.1	9.48	20.06	18.07
1050.1	1080.1	7.41	16.13	18.01
1110.1	1140.1	6.62	12.27	16.57
1150.1	1180.1	6.39	10.18	15.70
1210.1	1240.1	6.70	9.21	12.33
1250.1	1280.1	6.67	8.74	11.20
1310.1	1340.1	6.55	8.12	9.68
1350.1	1380.1	5.83	6.97	8.43
1410.1	1440.1	4.72	5.65	7.08
1450.1	1480.1	4.37	5.53	7.43
1510.1	1540.1	5.50	8.05	10.16
1550.1	1580.1	7.14	9.50	11.16
1610.1	1640.1	8.76	10.17	11.50
1650.1	1680.1	9.64	10.67	11.83
1710.1	1740.1	10.44	11.78	13.10
1750.1	1780.1	11.08	12.25	13.77
1810.1	1840.1	12.20	13.61	15.38
1850.1	1880.1	12.64	14.21	15.89
1910.1	1940.1	14.19	16.15	17.70
1950.1	1980.1	16.66	16.88	19.15
2010.1	2040.1	19.88	19.46	20.08

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+2dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	-7.73	-1.51	-0.37
70.1	100.1	-0.57	-0.16	-0.01
130.1	160.1	-0.45	-0.13	-0.05
190.1	220.1	-0.21	-0.05	-0.02
250.1	280.1	-0.22	-0.04	-0.03
310.1	340.1	-0.17	-0.04	-0.03
350.1	380.1	0.02	-0.02	-0.04
410.1	440.1	0.05	-0.04	-0.04
450.1	480.1	0.02	-0.04	-0.03
510.1	540.1	0.01	-0.06	-0.04
550.1	580.1	-0.06	-0.10	-0.08
610.1	640.1	-0.08	-0.04	-0.01
650.1	680.1	-0.10	-0.02	0.01
710.1	740.1	-0.14	-0.14	-0.07
750.1	780.1	-0.16	-0.19	-0.13
810.1	840.1	-0.08	-0.16	-0.14
850.1	880.1	-0.06	-0.11	-0.07
910.1	940.1	0.11	0.05	0.04
950.1	980.1	0.13	0.13	0.10
1010.1	1040.1	-0.10	0.17	0.15
1050.1	1080.1	-0.30	0.15	0.20
1110.1	1140.1	-0.43	0.06	0.26
1150.1	1180.1	-0.55	-0.08	0.24
1210.1	1240.1	-0.49	-0.20	0.10
1250.1	1280.1	-0.46	-0.24	0.02
1310.1	1340.1	-0.25	-0.15	0.02
1350.1	1380.1	-0.09	-0.04	0.11
1410.1	1440.1	0.19	0.22	0.33
1450.1	1480.1	0.42	0.38	0.44
1510.1	1540.1	0.68	0.63	0.54
1550.1	1580.1	0.76	0.63	0.52
1610.1	1640.1	0.71	0.51	0.40
1650.1	1680.1	0.59	0.42	0.33
1710.1	1740.1	0.41	0.30	0.24
1750.1	1780.1	0.33	0.24	0.20
1810.1	1840.1	0.22	0.16	0.15
1850.1	1880.1	0.21	0.13	0.12
1910.1	1940.1	0.11	0.08	0.08
1950.1	1980.1	0.07	0.05	0.06
2010.1	2040.1	-0.01	0.00	0.01

Frequency Mixer

ADE-ED7640/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=890.1MHz (dB)
		@LO (dBm)
		+7
850.1	40.0	10.80
830.1	60.0	9.49
810.1	80.0	8.62
790.1	100.0	7.97
770.1	120.0	7.86
750.1	140.0	7.68
730.1	160.0	7.65
710.1	180.0	7.57
690.1	200.0	7.33
670.1	220.0	7.28
650.1	240.0	7.31
630.1	260.0	7.20
610.1	280.0	7.23
590.1	300.0	7.22
570.1	320.0	7.19
550.1	340.0	7.21
530.1	360.0	7.22
510.1	380.0	7.23
490.1	400.0	7.27
470.1	420.0	7.25
450.1	440.0	7.25
430.1	460.0	7.25
410.1	480.0	7.19
390.1	500.0	7.26
370.1	520.0	7.33
350.1	540.0	7.34
330.1	560.0	7.35
310.1	580.0	7.36
290.1	600.0	7.38
270.1	620.0	7.37
250.1	640.0	7.40
230.1	660.0	7.37
210.1	680.0	7.46
190.1	700.0	7.57
150.1	740.0	7.73
130.1	760.0	7.77
90.1	800.0	7.89
70.1	820.0	7.92
30.1	860.0	7.84
10.1	880.0	7.88

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=124.9MHz (dB)
		@LO (dBm)
		+7
10.1	135.0	7.62
50.1	175.0	7.52
90.1	215.0	7.31
130.1	255.0	7.45
170.1	295.0	7.38
210.1	335.0	7.33
250.1	375.0	7.43
290.1	415.0	7.46
330.1	455.0	7.48
370.1	495.0	7.47
410.1	535.0	7.54
450.1	575.0	7.64
490.1	615.0	7.66
550.1	675.0	7.76
590.1	715.0	7.99
650.1	775.0	8.39
690.1	815.0	8.56
750.1	875.0	8.72
790.1	915.0	8.45
850.1	975.0	8.33
890.1	1015.0	8.14
950.1	1075.0	8.15
990.1	1115.0	8.09
1050.1	1175.0	8.31
1090.1	1215.0	8.39
1150.1	1275.0	8.60
1190.1	1315.0	8.57
1250.1	1375.0	8.61
1290.1	1415.0	8.53
1350.1	1475.0	8.48
1390.1	1515.0	8.34
1450.1	1575.0	8.36
1490.1	1615.0	8.40
1550.1	1675.0	8.68
1590.1	1715.0	8.84
1650.1	1775.0	9.17
1690.1	1815.0	9.43
1750.1	1875.0	9.83
1790.1	1915.0	10.09
1850.1	1975.0	10.62

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1770.1MHz (dB)
		@LO (dBm)
		+7
1470.1	300.0	10.53
1430.1	340.0	10.36
1390.1	380.0	10.08
1350.1	420.0	9.96
1310.1	460.0	9.77
1270.1	500.0	9.63
1230.1	540.0	9.58
1190.1	580.0	9.40
1150.1	620.0	9.23
1110.1	660.0	9.04
1070.1	700.0	9.05
1030.1	740.0	9.11
990.1	780.0	9.06
950.1	820.0	9.02
910.1	860.0	8.87
870.1	900.0	8.66
830.1	940.0	8.57
790.1	980.0	8.47
750.1	1020.0	8.53
710.1	1060.0	8.60
670.1	1100.0	8.68
630.1	1140.0	8.83
590.1	1180.0	8.90
550.1	1220.0	9.00
510.1	1260.0	9.15
470.1	1300.0	9.24
430.1	1340.0	9.30
390.1	1380.0	9.37
350.1	1420.0	9.33
310.1	1460.0	9.27
270.1	1500.0	9.15
250.1	1520.0	9.11
210.1	1560.0	9.05
190.1	1580.0	9.03
150.1	1620.0	9.03
130.1	1640.0	9.04
90.1	1680.0	9.04
70.1	1700.0	9.08
30.1	1740.0	9.14
10.1	1760.0	9.20

REV. X3

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
40.1	66.41	69.23	70.10	66.11	63.71	66.01
100.1	56.26	57.44	58.46	57.85	59.63	62.20
160.1	51.39	52.75	54.03	54.23	55.44	57.01
220.1	48.56	49.72	51.02	51.23	52.01	52.11
280.1	46.23	47.28	48.86	48.72	47.75	49.56
340.1	44.02	45.38	47.20	45.61	45.11	48.07
380.1	42.76	44.23	45.87	43.01	44.06	46.69
440.1	41.83	43.92	46.04	41.08	43.56	46.91
480.1	40.87	42.90	44.80	40.35	43.04	45.71
540.1	39.42	41.33	43.35	38.65	41.27	44.07
580.1	38.88	40.64	42.65	37.46	39.94	42.54
640.1	38.33	40.14	42.08	36.87	39.45	41.76
680.1	38.47	40.73	42.77	37.51	40.50	43.01
740.1	38.36	40.93	43.28	38.29	42.44	45.91
780.1	38.07	40.37	42.56	38.57	42.08	44.83
840.1	37.49	39.60	41.60	37.99	39.97	40.70
880.1	37.06	39.25	41.52	37.02	37.78	37.68
940.1	36.15	38.56	40.94	35.23	35.53	35.24
980.1	35.45	37.82	40.10	34.22	34.59	34.24
1040.1	34.37	36.54	38.55	33.02	33.61	33.01
1080.1	33.68	35.84	37.77	32.81	33.65	32.70
1140.1	32.76	34.93	36.73	32.61	33.67	32.95
1180.1	31.98	34.15	35.96	32.74	34.09	33.77
1240.1	30.99	33.34	35.65	32.73	34.75	35.46
1280.1	30.26	32.50	34.73	32.22	33.99	34.95
1340.1	29.29	31.39	33.34	31.06	31.65	31.53
1380.1	28.72	30.72	32.51	30.31	30.22	29.59
1440.1	27.98	29.70	31.18	29.23	27.92	26.70
1480.1	27.49	29.11	30.43	28.26	26.55	25.19
1540.1	27.00	28.38	29.41	26.74	24.97	24.12
1580.1	26.71	27.97	28.77	26.06	24.81	24.06
1640.1	26.47	27.55	28.16	26.10	24.99	24.02
1680.1	26.33	27.26	27.83	26.54	25.02	24.02
1740.1	25.92	26.60	27.03	27.21	25.05	23.79
1780.1	25.67	26.31	26.70	27.40	24.95	23.63
1840.1	25.34	25.74	25.85	27.55	24.68	23.07
1880.1	25.24	25.51	25.50	28.06	24.89	23.00
1940.1	24.90	24.92	24.76	27.19	24.35	22.50
1980.1	24.73	24.76	24.50	27.02	24.49	22.55
2040.1	24.55	24.25	23.88	26.02	23.97	22.18

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	48.94	50.30	51.86
70.1	100.1	34.27	34.96	35.67
130.1	160.1	29.61	30.25	30.64
190.1	220.1	27.09	27.62	28.05
250.1	280.1	25.01	25.72	26.15
310.1	340.1	23.71	24.62	24.95
350.1	380.1	23.35	23.97	24.17
410.1	440.1	22.29	23.25	23.61
450.1	480.1	21.96	22.89	23.28
510.1	540.1	21.02	21.60	21.99
550.1	580.1	20.41	20.90	21.10
610.1	640.1	19.35	20.29	20.98
650.1	680.1	19.13	20.34	21.35
710.1	740.1	18.85	19.75	20.48
750.1	780.1	18.72	19.36	19.78
810.1	840.1	18.02	18.48	18.63
850.1	880.1	17.37	17.70	17.78
910.1	940.1	16.40	16.50	16.55
950.1	980.1	15.95	16.16	16.20
1010.1	1040.1	15.45	15.74	15.90
1050.1	1080.1	15.40	15.76	16.02
1110.1	1140.1	15.58	15.82	16.13
1150.1	1180.1	15.84	16.01	16.27
1210.1	1240.1	16.58	16.66	16.51
1250.1	1280.1	17.24	17.29	17.02
1310.1	1340.1	18.35	18.39	18.08
1350.1	1380.1	18.83	18.74	18.21
1410.1	1440.1	18.64	18.07	17.18
1450.1	1480.1	17.76	16.89	15.87
1510.1	1540.1	15.57	14.54	13.69
1550.1	1580.1	14.06	13.14	12.54
1610.1	1640.1	11.83	11.19	10.76
1650.1	1680.1	10.76	10.17	9.81
1710.1	1740.1	9.48	8.93	8.55
1750.1	1780.1	8.72	8.20	7.87
1810.1	1840.1	7.81	7.27	6.97
1850.1	1880.1	7.39	6.80	6.44
1910.1	1940.1	6.70	6.13	5.81
1950.1	1980.1	6.39	5.83	5.48
2010.1	2040.1	5.84	5.33	5.01

Frequency Mixer

ADE-ED7640/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1760MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
10.1	40.1	1.97	1.86	1.53	40.1	26.74	18.11	8.99	10.1	2.99	2.69	2.44
70.1	100.1	1.89	1.59	1.46	100.1	5.10	3.25	2.73	50.1	2.89	2.61	2.39
130.1	160.1	1.71	1.47	1.35	160.1	3.60	2.33	2.15	90.1	2.88	2.61	2.39
190.1	220.1	1.74	1.54	1.43	220.1	2.78	1.98	2.01	130.1	2.84	2.58	2.37
250.1	280.1	1.71	1.52	1.43	280.1	2.58	1.87	1.91	170.1	2.80	2.55	2.35
310.1	340.1	1.70	1.52	1.45	340.1	2.53	1.77	1.89	210.1	2.74	2.50	2.31
350.1	380.1	1.68	1.54	1.48	380.1	2.39	1.70	1.87	250.1	2.67	2.45	2.27
410.1	440.1	1.66	1.54	1.49	440.1	2.32	1.64	1.89	290.1	2.62	2.41	2.24
450.1	480.1	1.69	1.59	1.55	480.1	2.17	1.62	1.91	330.1	2.54	2.35	2.19
510.1	540.1	1.67	1.60	1.56	540.1	2.08	1.56	1.91	370.1	2.47	2.29	2.15
550.1	580.1	1.70	1.63	1.60	580.1	1.94	1.56	1.97	410.1	2.42	2.25	2.12
610.1	640.1	1.66	1.60	1.57	640.1	1.85	1.54	1.99	450.1	2.33	2.18	2.06
650.1	680.1	1.67	1.61	1.58	680.1	1.73	1.51	2.02	490.1	2.27	2.13	2.03
710.1	740.1	1.64	1.60	1.58	740.1	1.66	1.52	2.05	530.1	2.19	2.07	1.98
750.1	780.1	1.68	1.65	1.63	780.1	1.58	1.55	2.13	570.1	2.12	2.01	1.94
810.1	840.1	1.66	1.63	1.62	840.1	1.52	1.59	2.20	610.1	2.06	1.97	1.90
850.1	880.1	1.71	1.67	1.65	880.1	1.47	1.63	2.25	650.1	1.98	1.89	1.84
910.1	940.1	1.65	1.60	1.58	940.1	1.37	1.60	2.25	690.1	1.92	1.85	1.81
950.1	980.1	1.66	1.60	1.57	980.1	1.29	1.60	2.30	730.1	1.85	1.79	1.77
1010.1	1040.1	1.61	1.53	1.49	1040.1	1.22	1.63	2.35	770.1	1.79	1.74	1.72
1050.1	1080.1	1.61	1.52	1.48	1080.1	1.20	1.68	2.40	810.1	1.73	1.69	1.68
1110.1	1140.1	1.50	1.42	1.37	1140.1	1.21	1.75	2.49	850.1	1.67	1.63	1.63
1150.1	1180.1	1.47	1.39	1.34	1180.1	1.23	1.80	2.55	890.1	1.62	1.59	1.60
1210.1	1240.1	1.32	1.24	1.19	1240.1	1.28	1.89	2.67	950.1	1.54	1.52	1.54
1250.1	1280.1	1.27	1.21	1.15	1280.1	1.31	1.93	2.70	990.1	1.50	1.50	1.53
1310.1	1340.1	1.13	1.07	1.01	1340.1	1.36	2.01	2.81	1050.1	1.42	1.42	1.47
1350.1	1380.1	1.11	1.07	1.07	1380.1	1.39	2.03	2.82	1090.1	1.38	1.40	1.46
1410.1	1440.1	1.22	1.24	1.27	1440.1	1.43	2.09	2.89	1150.1	1.33	1.36	1.44
1450.1	1480.1	1.32	1.35	1.41	1480.1	1.43	2.06	2.83	1190.1	1.29	1.34	1.43
1510.1	1540.1	1.54	1.59	1.62	1540.1	1.43	2.07	2.86	1250.1	1.23	1.31	1.40
1550.1	1580.1	1.68	1.71	1.73	1580.1	1.41	2.04	2.84	1290.1	1.21	1.30	1.41
1610.1	1640.1	1.94	1.97	1.97	1640.1	1.45	2.10	2.93	1350.1	1.17	1.29	1.41
1650.1	1680.1	2.02	2.06	2.07	1680.1	1.50	2.12	2.93	1390.1	1.16	1.29	1.42
1710.1	1740.1	2.18	2.22	2.23	1740.1	1.64	2.25	3.06	1450.1	1.14	1.30	1.43
1750.1	1780.1	2.20	2.23	2.24	1780.1	1.73	2.29	3.08	1490.1	1.14	1.31	1.44
1810.1	1840.1	2.28	2.30	2.30	1840.1	1.91	2.42	3.19	1550.1	1.15	1.31	1.43
1850.1	1880.1	2.32	2.31	2.30	1880.1	2.02	2.47	3.20	1590.1	1.17	1.32	1.44
1910.1	1940.1	2.31	2.28	2.26	1940.1	2.23	2.64	3.35	1650.1	1.19	1.34	1.46
1950.1	1980.1	2.33	2.29	2.26	1980.1	2.36	2.70	3.37	1690.1	1.22	1.36	1.47
2010.1	2040.1	2.32	2.26	2.23	2040.1	2.56	2.86	3.50	1750.1	1.24	1.38	1.48

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	17	11	30	19	49	26	49	39	41
1	-	9	+0	25	14	35	52	35	50	63	58	>70
2	87	62	56	58	58	63	58	>70	69	>70	>70	>70
3	>90	>70	>70	>70	>70	69	>70	>70	>70	>70	>70	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 947.5 MHz; -13.00 dBm.
LO IN: 977.5 MHz; +7.00 dBm
IF OUT: 30 MHz; -20.49 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	27	21	40	31	60	38	61	56	54
1	-	9	+0	26	14	36	52	36	52	65	62	79
2	68	51	46	48	46	55	48	68	57	69	62	>79
3	>90	59	64	49	52	49	50	68	69	64	73	>79
4	>90	>79	78	72	74	69	66	75	77	>79	>79	>79
5	>90	>79	>79	>79	79	>79	71	74	79	>79	>79	>79
6	>90	>79	>79	>79	>79	>79	>79	>79	>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: 947.5 MHz; -3.00 dBm.
LO IN: 977.5 MHz; +7.00 dBm
IF OUT: 30 MHz; -10.55 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.