

Frequency Mixer

ADE-ED12761/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=45MHz (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	55.1	6.46	6.38	6.15
70.1	115.1	6.77	6.48	6.39
130.1	175.1	6.78	6.56	6.48
190.1	235.1	6.63	6.45	6.38
250.1	295.1	6.69	6.53	6.46
310.1	355.1	6.74	6.56	6.47
370.1	415.1	6.71	6.52	6.41
430.1	475.1	6.77	6.58	6.46
490.1	535.1	6.83	6.59	6.44
550.1	595.1	6.78	6.54	6.38
610.1	655.1	6.83	6.53	6.37
670.1	715.1	6.84	6.53	6.34
730.1	775.1	6.81	6.53	6.34
790.1	835.1	6.87	6.56	6.35
830.1	875.1	6.85	6.52	6.30
890.1	935.1	6.80	6.45	6.25
930.1	975.1	6.84	6.46	6.26
990.1	1035.1	7.04	6.52	6.28
1030.1	1075.1	7.25	6.60	6.28
1090.1	1135.1	7.50	6.75	6.32
1130.1	1175.1	7.60	6.86	6.36
1190.1	1235.1	7.67	6.98	6.46
1230.1	1275.1	7.78	7.12	6.58
1290.1	1335.1	7.85	7.21	6.70
1330.1	1375.1	7.82	7.20	6.74
1390.1	1435.1	7.78	7.21	6.82
1430.1	1475.1	7.70	7.17	6.84
1490.1	1535.1	7.67	7.26	7.00
1530.1	1575.1	7.74	7.37	7.15
1590.1	1635.1	7.90	7.60	7.41
1630.1	1675.1	8.16	7.88	7.71
1690.1	1735.1	8.37	8.13	7.97
1730.1	1775.1	8.74	8.53	8.38
1790.1	1835.1	8.98	8.81	8.68
1830.1	1875.1	9.38	9.22	9.10
1890.1	1935.1	9.64	9.50	9.42
1930.1	1975.1	10.05	9.93	9.87
1990.1	2035.1	10.32	10.17	10.13
2030.1	2075.1	10.76	10.59	10.55
2090.1	2135.1	11.27	11.06	11.00

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+10	+13	+16
10.1	55.1	19.83	23.39	25.00
70.1	115.1	19.43	20.02	21.53
130.1	175.1	17.50	19.36	21.65
190.1	235.1	17.64	19.76	22.98
250.1	295.1	18.23	20.56	24.50
310.1	355.1	17.25	20.12	24.49
370.1	415.1	18.00	21.63	24.47
430.1	475.1	17.88	21.26	25.93
490.1	535.1	16.10	19.77	24.79
550.1	595.1	18.65	21.21	22.09
610.1	655.1	18.95	20.29	20.95
670.1	715.1	17.49	21.30	20.69
730.1	775.1	17.23	20.24	24.16
790.1	835.1	17.30	20.49	24.23
830.1	875.1	17.91	22.00	22.47
890.1	935.1	20.79	26.15	23.15
930.1	975.1	22.79	22.11	21.16
990.1	1035.1	17.60	19.86	19.13
1030.1	1075.1	14.13	19.15	17.97
1090.1	1135.1	11.90	16.92	15.91
1130.1	1175.1	11.80	15.29	14.27
1190.1	1235.1	11.44	13.90	13.66
1230.1	1275.1	10.89	12.87	13.25
1290.1	1335.1	10.33	12.32	13.95
1330.1	1375.1	10.72	13.26	14.98
1390.1	1435.1	12.79	16.80	17.56
1430.1	1475.1	15.49	19.33	19.16
1490.1	1535.1	18.52	20.22	20.37
1530.1	1575.1	17.39	19.82	20.31
1590.1	1635.1	16.85	18.88	19.98
1630.1	1675.1	15.90	17.95	19.69
1690.1	1735.1	15.57	16.96	18.66
1730.1	1775.1	15.29	16.65	18.43
1790.1	1835.1	15.30	15.57	16.89
1830.1	1875.1	15.97	15.40	15.39
1890.1	1935.1	16.83	17.04	15.64
1930.1	1975.1	16.19	18.12	16.92
1990.1	2035.1	14.18	16.30	18.21
2030.1	2075.1	13.73	15.23	16.63
2090.1	2135.1	13.56	15.17	16.90

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	55.1	0.50	0.07	0.18
70.1	115.1	0.26	0.17	0.08
130.1	175.1	0.23	0.10	0.02
190.1	235.1	0.32	0.16	0.08
250.1	295.1	0.28	0.15	0.08
310.1	355.1	0.24	0.13	0.07
370.1	415.1	0.27	0.17	0.11
430.1	475.1	0.29	0.19	0.12
490.1	535.1	0.28	0.20	0.15
550.1	595.1	0.34	0.25	0.19
610.1	655.1	0.39	0.29	0.22
670.1	715.1	0.42	0.34	0.26
730.1	775.1	0.58	0.45	0.35
790.1	835.1	0.70	0.55	0.44
830.1	875.1	0.81	0.66	0.53
890.1	935.1	1.06	0.85	0.68
930.1	975.1	1.21	0.97	0.79
990.1	1035.1	1.29	1.08	0.89
1030.1	1075.1	1.25	1.16	0.97
1090.1	1135.1	1.19	1.20	1.05
1130.1	1175.1	1.19	1.22	1.12
1190.1	1235.1	1.20	1.19	1.12
1230.1	1275.1	1.18	1.16	1.11
1290.1	1335.1	1.21	1.15	1.07
1330.1	1375.1	1.30	1.23	1.12
1390.1	1435.1	1.37	1.26	1.09
1430.1	1475.1	1.50	1.34	1.14
1490.1	1535.1	1.48	1.25	1.06
1530.1	1575.1	1.51	1.24	1.06
1590.1	1635.1	1.34	1.09	0.95
1630.1	1675.1	1.28	1.02	0.90
1690.1	1735.1	1.10	0.89	0.81
1730.1	1775.1	1.00	0.78	0.72
1790.1	1835.1	0.95	0.70	0.64
1830.1	1875.1	0.86	0.61	0.56
1890.1	1935.1	0.88	0.60	0.53
1930.1	1975.1	0.82	0.54	0.47
1990.1	2035.1	0.93	0.63	0.53
2030.1	2075.1	0.87	0.62	0.53
2090.1	2135.1	0.93	0.62	0.56

REV. X2

ADE-ED12761/1

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Page 1 of 5



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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (dB)
		@LO (dBm)
		+13
490.0	10.1	6.76
480.2	19.9	6.70
470.4	29.7	6.63
460.6	39.5	6.66
450.8	49.3	6.63
441.0	59.1	6.62
431.2	68.9	6.63
421.4	78.7	6.62
411.6	88.5	6.56
401.8	98.3	6.48
392.0	108.1	6.49
382.2	117.9	6.47
372.4	127.7	6.43
362.7	137.4	6.45
352.9	147.2	6.44
343.1	157.0	6.47
333.3	166.8	6.41
323.5	176.6	6.44
313.7	186.4	6.43
303.9	196.2	6.45
284.3	215.8	6.41
274.5	225.6	6.45
254.9	245.2	6.47
245.1	255.0	6.47
225.5	274.6	6.47
215.7	284.4	6.41
196.1	304.0	6.43
186.3	313.8	6.44
166.7	333.4	6.43
156.9	343.2	6.49
137.3	362.8	6.47
127.6	372.5	6.44
108.0	392.1	6.48
98.2	401.9	6.46
78.6	421.5	6.45
68.8	431.3	6.49
49.2	450.9	6.51
39.4	460.7	6.53
19.8	480.3	6.49
10.0	490.1	6.40

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)
		@LO (dBm)
		+13
10.1	20.1	6.22
50.1	60.1	6.43
90.1	100.1	6.45
130.1	140.1	6.43
170.1	180.1	6.42
210.1	220.1	6.50
250.1	260.1	6.40
290.1	300.1	6.54
330.1	340.1	6.69
370.1	380.1	6.55
410.1	420.1	6.65
470.1	480.1	6.76
510.1	520.1	6.81
570.1	580.1	7.08
610.1	620.1	6.96
670.1	680.1	6.98
710.1	720.1	7.25
770.1	780.1	7.40
810.1	820.1	7.40
870.1	880.1	7.33
910.1	920.1	7.12
970.1	980.1	7.38
1010.1	1020.1	7.37
1070.1	1080.1	7.39
1110.1	1120.1	7.66
1170.1	1180.1	7.65
1210.1	1220.1	7.82
1270.1	1280.1	7.87
1310.1	1320.1	7.88
1370.1	1380.1	7.98
1410.1	1420.1	8.07
1470.1	1480.1	8.16
1510.1	1520.1	8.24
1570.1	1580.1	8.49
1610.1	1620.1	8.70
1670.1	1680.1	8.97
1710.1	1720.1	9.24
1770.1	1780.1	9.85
1810.1	1820.1	10.16
1870.1	1880.1	10.85

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1000.1MHz (dB)
		@LO (dBm)
		+13
990.0	10.1	6.88
970.0	30.1	6.79
950.0	50.1	6.73
930.0	70.1	6.68
910.0	90.1	6.62
890.0	110.1	6.58
870.0	130.1	6.57
850.0	150.1	6.55
830.0	170.1	6.57
810.0	190.1	6.54
790.0	210.1	6.52
770.0	230.1	6.49
750.0	250.1	6.46
730.0	270.1	6.50
710.0	290.1	6.46
690.0	310.1	6.45
670.0	330.1	6.43
650.0	350.1	6.42
630.0	370.1	6.40
610.0	390.1	6.39
570.0	430.1	6.33
550.0	450.1	6.29
510.0	490.1	6.29
490.0	510.1	6.33
450.0	550.1	6.31
430.0	570.1	6.32
390.0	610.1	6.33
370.0	630.1	6.29
330.0	670.1	6.26
310.0	690.1	6.31
270.0	730.1	6.42
250.0	750.1	6.43
210.0	790.1	6.48
190.0	810.1	6.48
150.0	850.1	6.48
130.0	870.1	6.42
90.0	910.1	6.32
70.0	930.1	6.36
30.0	970.1	6.37
10.0	990.1	6.26

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
55.1	59.22	58.49	57.93	51.53	49.19	47.62
115.1	54.84	55.21	55.67	48.03	45.60	44.53
175.1	51.66	52.70	53.49	45.07	43.66	42.62
235.1	49.75	51.04	51.86	42.91	41.61	40.53
295.1	47.79	48.98	49.87	41.98	40.55	39.36
355.1	46.22	47.58	48.66	40.92	39.40	38.04
415.1	44.73	46.07	47.15	40.21	38.53	37.19
475.1	44.04	45.54	46.87	39.50	37.81	36.34
535.1	42.86	44.29	45.43	38.84	37.05	35.54
595.1	41.82	43.37	44.70	38.38	36.45	34.69
655.1	40.66	42.14	43.38	37.94	35.94	34.33
715.1	39.36	40.99	42.25	36.33	34.22	32.72
775.1	37.94	39.31	40.42	35.79	33.37	31.68
835.1	37.01	38.14	39.03	35.41	32.82	30.97
875.1	36.49	37.57	38.38	34.51	31.95	30.16
935.1	36.30	37.41	38.24	33.13	30.63	29.10
975.1	35.85	36.88	37.54	31.97	29.73	28.28
1035.1	34.73	35.72	36.21	30.66	28.90	27.54
1075.1	34.16	35.25	35.84	29.43	27.97	26.78
1135.1	33.81	35.24	36.38	28.37	26.91	25.78
1175.1	33.65	35.11	36.43	27.82	26.24	25.11
1235.1	33.49	34.86	36.01	27.36	25.70	24.42
1275.1	33.50	34.98	36.25	27.25	25.54	24.16
1335.1	34.08	35.94	37.52	26.81	25.01	23.56
1375.1	34.43	36.55	38.22	26.63	24.70	23.14
1435.1	35.68	38.25	39.40	25.73	23.67	22.11
1475.1	36.67	39.05	38.95	25.21	23.10	21.52
1535.1	39.27	39.38	37.42	23.82	21.84	20.50
1575.1	41.01	38.82	36.26	23.14	21.25	20.04
1635.1	42.94	36.41	33.70	21.83	20.28	19.26
1675.1	41.71	34.77	32.18	21.27	19.79	18.84
1735.1	37.38	32.49	30.23	20.37	19.20	18.31
1775.1	35.42	31.31	29.30	19.94	18.90	18.08
1835.1	32.20	29.18	27.37	19.30	18.48	17.69
1875.1	31.23	28.51	26.78	19.10	18.38	17.61
1935.1	29.37	27.30	25.72	18.50	18.02	17.26
1975.1	28.38	26.78	25.32	18.39	18.05	17.32
2035.1	26.37	25.40	24.13	17.93	17.92	17.27
2075.1	25.61	24.88	23.83	17.76	17.84	17.33
2135.1	23.92	23.81	22.89	17.06	17.56	17.12

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	55.1	48.83	48.84	49.50
70.1	115.1	32.74	32.81	32.78
130.1	175.1	28.03	28.07	28.10
190.1	235.1	25.32	25.34	25.33
250.1	295.1	23.66	23.69	23.72
310.1	355.1	22.36	22.42	22.46
370.1	415.1	21.75	21.84	21.90
430.1	475.1	21.15	21.30	21.41
490.1	535.1	20.75	20.92	21.08
550.1	595.1	20.44	20.64	20.80
610.1	655.1	20.54	20.97	21.25
670.1	715.1	20.71	21.23	21.60
730.1	775.1	20.10	20.45	20.66
790.1	835.1	18.94	19.04	19.01
830.1	875.1	17.74	17.73	17.61
890.1	935.1	16.35	16.30	16.24
930.1	975.1	15.39	15.32	15.28
990.1	1035.1	14.71	14.58	14.53
1030.1	1075.1	14.29	14.14	14.07
1090.1	1135.1	14.05	13.88	13.79
1130.1	1175.1	13.87	13.73	13.63
1190.1	1235.1	13.77	13.72	13.67
1230.1	1275.1	13.63	13.66	13.68
1290.1	1335.1	13.43	13.51	13.55
1330.1	1375.1	13.27	13.36	13.32
1390.1	1435.1	12.94	12.88	12.67
1430.1	1475.1	12.59	12.42	12.15
1490.1	1535.1	11.81	11.55	11.31
1530.1	1575.1	11.25	11.01	10.79
1590.1	1635.1	10.30	10.08	9.90
1630.1	1675.1	9.71	9.49	9.30
1690.1	1735.1	8.85	8.61	8.43
1730.1	1775.1	8.29	8.03	7.83
1790.1	1835.1	7.52	7.24	7.03
1830.1	1875.1	7.08	6.77	6.56
1890.1	1935.1	6.49	6.17	5.92
1930.1	1975.1	6.12	5.79	5.54
1990.1	2035.1	5.63	5.33	5.06
2030.1	2075.1	5.36	5.07	4.81
2090.1	2135.1	4.98	4.73	4.48

Frequency Mixer

ADE-ED12761/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1045MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
10.1	55.1	1.45	1.35	1.33	55.1	1.73	2.86	4.75	10.1	1.60	1.34	1.20
70.1	115.1	1.46	1.36	1.31	115.1	1.61	2.38	3.40	30.1	1.55	1.30	1.16
130.1	175.1	1.41	1.34	1.31	175.1	1.56	2.18	2.95	50.1	1.58	1.32	1.19
190.1	235.1	1.42	1.36	1.33	235.1	1.65	2.31	3.13	70.1	1.54	1.29	1.16
250.1	295.1	1.42	1.38	1.35	295.1	1.67	2.30	3.05	90.1	1.59	1.34	1.20
310.1	355.1	1.43	1.39	1.36	355.1	1.73	2.37	3.14	110.1	1.57	1.32	1.19
370.1	415.1	1.43	1.39	1.36	415.1	1.81	2.48	3.26	130.1	1.55	1.30	1.18
430.1	475.1	1.44	1.40	1.37	475.1	1.88	2.56	3.33	150.1	1.54	1.30	1.17
490.1	535.1	1.44	1.40	1.37	535.1	1.97	2.66	3.44	170.1	1.53	1.29	1.16
550.1	595.1	1.42	1.38	1.35	595.1	2.09	2.81	3.62	190.1	1.58	1.34	1.21
610.1	655.1	1.40	1.35	1.32	655.1	2.15	2.87	3.67	210.1	1.54	1.30	1.17
670.1	715.1	1.38	1.33	1.30	715.1	2.27	3.01	3.82	230.1	1.52	1.29	1.17
730.1	775.1	1.36	1.32	1.30	775.1	2.38	3.14	3.95	250.1	1.53	1.29	1.17
790.1	835.1	1.34	1.31	1.28	835.1	2.45	3.20	4.01	270.1	1.53	1.29	1.18
830.1	875.1	1.33	1.29	1.27	875.1	2.53	3.29	4.10	290.1	1.55	1.32	1.20
890.1	935.1	1.29	1.25	1.24	935.1	2.61	3.37	4.18	310.1	1.50	1.28	1.16
930.1	975.1	1.28	1.23	1.21	975.1	2.70	3.46	4.27	350.1	1.51	1.29	1.18
990.1	1035.1	1.27	1.20	1.16	1035.1	2.82	3.58	4.36	370.1	1.49	1.28	1.18
1030.1	1075.1	1.28	1.19	1.13	1075.1	2.90	3.65	4.43	410.1	1.47	1.27	1.18
1090.1	1135.1	1.30	1.19	1.11	1135.1	3.02	3.77	4.54	430.1	1.48	1.29	1.21
1130.1	1175.1	1.31	1.21	1.13	1175.1	3.07	3.82	4.57	470.1	1.45	1.27	1.20
1190.1	1235.1	1.34	1.26	1.19	1235.1	3.18	3.92	4.66	490.1	1.48	1.30	1.23
1230.1	1275.1	1.38	1.31	1.25	1275.1	3.20	3.92	4.64	530.1	1.45	1.28	1.23
1290.1	1335.1	1.45	1.39	1.34	1335.1	3.31	4.02	4.72	550.1	1.42	1.26	1.20
1330.1	1375.1	1.50	1.45	1.42	1375.1	3.32	4.01	4.70	590.1	1.44	1.30	1.25
1390.1	1435.1	1.60	1.57	1.54	1435.1	3.44	4.12	4.79	610.1	1.38	1.26	1.24
1430.1	1475.1	1.68	1.65	1.63	1475.1	3.43	4.09	4.77	650.1	1.39	1.25	1.23
1490.1	1535.1	1.78	1.76	1.74	1535.1	3.52	4.16	4.82	670.1	1.40	1.30	1.29
1530.1	1575.1	1.85	1.83	1.81	1575.1	3.53	4.15	4.80	710.1	1.34	1.25	1.27
1590.1	1635.1	1.94	1.92	1.90	1635.1	3.66	4.27	4.89	730.1	1.38	1.28	1.28
1630.1	1675.1	1.99	1.97	1.95	1675.1	3.73	4.32	4.93	770.1	1.36	1.29	1.32
1690.1	1735.1	2.06	2.04	2.02	1735.1	3.93	4.47	5.03	790.1	1.34	1.26	1.29
1730.1	1775.1	2.10	2.07	2.05	1775.1	4.05	4.55	5.09	830.1	1.33	1.27	1.30
1790.1	1835.1	2.12	2.10	2.08	1835.1	4.24	4.64	5.10	850.1	1.29	1.24	1.28
1830.1	1875.1	2.11	2.09	2.07	1875.1	4.37	4.72	5.16	890.1	1.29	1.25	1.30
1890.1	1935.1	2.13	2.11	2.09	1935.1	4.51	4.78	5.14	910.1	1.27	1.27	1.34
1930.1	1975.1	2.09	2.07	2.05	1975.1	4.63	4.88	5.22	950.1	1.26	1.24	1.31
1990.1	2035.1	2.09	2.07	2.05	2035.1	4.67	4.87	5.14	970.1	1.29	1.28	1.35
2030.1	2075.1	2.03	2.01	1.99	2075.1	4.68	4.88	5.17	1010.1	1.24	1.27	1.36
2090.1	2135.1	2.01	1.99	1.99	2135.1	4.59	4.79	5.04	1030.1	1.24	1.23	1.30

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Page 4 of 5



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	22	12	35	25	35	19	38	38	51
1	-	14	+0	28	13	43	25	38	46	45	51	46
2	84	73	49	83	50	66	51	70	65	71	59	69
3	>100	74	74	73	65	72	62	80	73	>84	>84	>84
4	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
5	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>100	>84	>84	>84	>84	>84	81	>84	80	>84	>84	>84
8	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 550 MHz; -10.00 dBm.
LO IN: 595 MHz; +13.00 dBm
IF OUT: 45 MHz; -16.42 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	33	24	44	36	46	30	50	51	61
1	-	15	+0	27	13	43	26	41	45	49	62	51
2	64	59	39	68	40	58	42	64	54	63	51	66
3	97	57	54	58	48	57	43	62	70	58	68	61
4	>100	82	71	70	67	70	72	70	65	77	75	74
5	>100	71	70	66	60	66	61	67	59	65	68	73
6	>100	>94	89	90	73	81	71	81	70	91	70	84
7	>100	>94	>94	88	79	81	74	84	77	80	76	91
8	>100	>94	>94	>94	>94	>94	>94	>94	>94	92	90	>94
9	>100	>94	>94	>94	>94	>94	93	>94	>94	93	92	>94
10	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 550 MHz; 0.00 dBm.
LO IN: 595 MHz; +13.00 dBm
IF OUT: 45 MHz; -6.43 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.