

# Frequency Mixer

# ADE-12H+

## 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=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
270.1	300.1	23.36	11.07	7.90	270.1	300.1	5.19	17.18	23.34	270.1	300.1	-11.48	-1.40	-0.07
310.1	340.1	19.23	9.71	7.20	310.1	340.1	7.13	18.05	21.25	310.1	340.1	-8.40	-1.02	0.13
350.1	380.1	16.67	8.62	6.69	350.1	380.1	8.50	16.07	22.52	350.1	380.1	-5.99	-0.57	0.14
390.1	420.1	13.02	7.50	6.47	390.1	420.1	11.40	20.78	29.13	390.1	420.1	-3.39	0.02	0.14
430.1	460.1	12.93	7.01	6.22	430.1	460.1	10.79	22.52	30.03	430.1	460.1	-3.31	0.37	0.24
470.1	500.1	10.24	6.57	6.13	470.1	500.1	13.29	18.67	27.98	470.1	500.1	-1.31	0.45	0.23
510.1	540.1	9.99	6.52	6.03	510.1	540.1	13.72	18.51	29.08	510.1	540.1	-1.20	0.44	0.26
550.1	580.1	8.70	6.38	6.01	550.1	580.1	17.03	21.27	28.98	550.1	580.1	-0.06	0.35	0.23
590.1	620.1	8.16	6.25	5.91	590.1	620.1	18.55	24.30	28.63	590.1	620.1	0.31	0.38	0.25
630.1	660.1	7.76	6.19	5.78	630.1	660.1	18.85	26.10	24.61	630.1	660.1	0.71	0.42	0.34
670.1	700.1	7.16	6.09	5.72	670.1	700.1	19.39	26.90	24.60	670.1	700.1	0.98	0.44	0.38
710.1	740.1	7.00	6.02	5.69	710.1	740.1	20.29	27.57	27.88	710.1	740.1	1.26	0.66	0.53
750.1	780.1	6.72	5.98	5.73	750.1	780.1	19.59	27.40	29.73	750.1	780.1	1.42	0.76	0.64
790.1	820.1	6.64	5.97	5.74	790.1	820.1	18.61	30.38	31.34	790.1	820.1	1.52	0.91	0.73
830.1	860.1	6.69	6.00	5.74	830.1	860.1	16.74	30.33	32.16	830.1	860.1	1.56	1.00	0.81
870.1	900.1	6.83	6.17	5.87	870.1	900.1	15.94	32.97	28.10	870.1	900.1	1.54	0.98	0.86
910.1	940.1	7.03	6.38	5.98	910.1	940.1	15.18	21.11	27.50	910.1	940.1	1.54	1.04	0.96
950.1	980.1	7.32	6.59	6.16	950.1	980.1	15.57	18.98	23.23	950.1	980.1	1.48	1.06	0.96
990.1	1020.1	7.46	6.68	6.19	990.1	1020.1	16.42	18.79	21.61	990.1	1020.1	1.57	1.14	1.03
1030.1	1060.1	7.68	6.87	6.32	1030.1	1060.1	17.03	18.71	20.78	1030.1	1060.1	1.72	1.22	1.14
1070.1	1100.1	7.70	6.83	6.30	1070.1	1100.1	18.03	19.30	21.11	1070.1	1100.1	1.85	1.35	1.27
1110.1	1140.1	7.62	6.74	6.22	1110.1	1140.1	19.10	20.65	23.40	1110.1	1140.1	1.98	1.46	1.42
1150.1	1180.1	7.47	6.46	5.86	1150.1	1180.1	22.51	22.68	22.70	1150.1	1180.1	2.20	1.74	1.64
1190.1	1220.1	7.15	5.97	5.45	1190.1	1220.1	23.16	21.81	21.67	1190.1	1220.1	2.52	2.21	1.97
1230.1	1260.1	7.43	5.94	5.41	1230.1	1260.1	21.22	19.78	19.77	1230.1	1260.1	2.37	2.37	2.04
1270.1	1300.1	7.49	5.88	5.26	1270.1	1300.1	18.36	18.47	18.52	1270.1	1300.1	2.33	2.54	2.25
1310.1	1340.1	7.43	5.98	5.31	1310.1	1340.1	17.51	17.96	18.12	1310.1	1340.1	2.34	2.49	2.28
1370.1	1400.1	7.26	6.08	5.40	1370.1	1400.1	16.75	17.21	17.61	1370.1	1400.1	2.51	2.61	2.47
1410.1	1440.1	7.12	6.02	5.44	1410.1	1440.1	16.56	16.91	17.40	1410.1	1440.1	2.56	2.69	2.57
1470.1	1500.1	7.35	6.37	5.72	1470.1	1500.1	15.96	16.55	17.35	1470.1	1500.1	2.27	2.56	2.67
1510.1	1540.1	7.70	6.76	6.13	1510.1	1540.1	15.96	16.66	17.80	1510.1	1540.1	1.87	2.17	2.37
1570.1	1600.1	8.11	7.65	7.19	1570.1	1600.1	15.76	16.02	17.19	1570.1	1600.1	1.36	1.33	1.49
1610.1	1640.1	7.89	7.70	7.48	1610.1	1640.1	16.40	15.89	16.41	1610.1	1640.1	1.47	1.22	1.17
1670.1	1700.1	7.81	7.60	7.51	1670.1	1700.1	19.91	18.41	17.86	1670.1	1700.1	1.62	1.29	1.14
1710.1	1740.1	8.06	7.77	7.68	1710.1	1740.1	23.28	21.18	20.30	1710.1	1740.1	1.32	1.05	0.89
1770.1	1800.1	8.66	8.33	8.14	1770.1	1800.1	22.97	23.44	23.55	1770.1	1800.1	0.87	0.65	0.53
1810.1	1840.1	8.96	8.64	8.49	1810.1	1840.1	23.05	23.46	23.52	1810.1	1840.1	0.66	0.41	0.34
1870.1	1900.1	9.56	9.26	9.11	1870.1	1900.1	22.74	25.41	23.62	1870.1	1900.1	0.44	0.20	0.12
1910.1	1940.1	9.96	9.67	9.50	1910.1	1940.1	21.94	27.48	26.24	1910.1	1940.1	0.22	0.09	0.06
1970.1	2000.1	10.54	10.20	9.98	1970.1	2000.1	20.07	22.49	27.07	1970.1	2000.1	0.07	0.07	0.04

# Frequency Mixer

# ADE-12H+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=850.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1200.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
250.0	600.1	5.48	10.0	510.1	6.52	250.0	950.1	6.63
237.4	612.7	5.49	16.2	516.3	6.48	243.8	956.3	6.62
224.7	625.4	5.51	22.3	522.4	6.46	237.7	962.4	6.63
212.1	638.0	5.50	28.5	528.6	6.47	231.5	968.6	6.68
199.5	650.6	5.55	34.6	534.7	6.45	225.4	974.7	6.67
186.8	663.3	5.56	40.8	540.9	6.52	219.2	980.9	6.67
174.2	675.9	5.56	46.9	547.0	6.56	213.1	987.0	6.69
161.6	688.5	5.62	53.1	553.2	6.60	206.9	993.2	6.71
148.9	701.2	5.62	59.2	559.3	6.58	200.8	999.3	6.78
136.3	713.8	5.63	65.4	565.5	6.53	194.6	1005.5	6.77
123.7	726.4	5.71	71.5	571.6	6.56	188.5	1011.6	6.76
111.1	739.0	5.76	77.7	577.8	6.53	182.3	1017.8	6.71
98.4	751.7	5.84	83.8	583.9	6.56	176.2	1023.9	6.69
85.8	764.3	5.87	90.0	590.1	6.56	170.0	1030.1	6.75
73.2	776.9	5.87	96.2	596.3	6.51	163.8	1036.3	6.75
60.5	789.6	5.95	102.3	602.4	6.54	157.7	1042.4	6.75
47.9	802.2	6.00	108.5	608.6	6.55	151.5	1048.6	6.69
35.3	814.8	6.05	114.6	614.7	6.60	145.4	1054.7	6.64
22.6	827.5	6.11	120.8	620.9	6.63	139.2	1060.9	6.67
10.0	840.1	6.10	126.9	627.0	6.62	133.1	1067.0	6.70
10.0	860.1	6.16	133.1	633.2	6.62	126.9	1073.2	6.69
22.6	872.7	6.06	139.2	639.3	6.61	120.8	1079.3	6.64
35.3	885.4	6.06	145.4	645.5	6.67	114.6	1085.5	6.56
47.9	898.0	6.08	151.5	651.6	6.70	108.5	1091.6	6.54
60.5	910.6	6.10	157.7	657.8	6.69	102.3	1097.8	6.55
73.2	923.3	6.19	163.8	663.9	6.68	96.2	1103.9	6.58
85.8	935.9	6.21	170.0	670.1	6.66	90.0	1110.1	6.56
98.4	948.5	6.17	176.2	676.3	6.70	83.8	1116.3	6.49
111.1	961.2	6.18	182.3	682.4	6.73	77.7	1122.4	6.46
123.7	973.8	6.18	188.5	688.6	6.73	71.5	1128.6	6.43
136.3	986.4	6.22	194.6	694.7	6.72	65.4	1134.7	6.44
148.9	999.0	6.31	200.8	700.9	6.69	59.2	1140.9	6.43
161.6	1011.7	6.31	206.9	707.0	6.69	53.1	1147.0	6.35
174.2	1024.3	6.36	213.1	713.2	6.73	46.9	1153.2	6.27
186.8	1036.9	6.48	219.2	719.3	6.76	40.8	1159.3	6.19
199.5	1049.6	6.51	225.4	725.5	6.79	34.6	1165.5	6.21
212.1	1062.2	6.65	231.5	731.6	6.74	28.5	1171.6	6.25
224.7	1074.8	6.75	237.7	737.8	6.75	22.3	1177.8	6.20
237.4	1087.5	6.81	243.8	743.9	6.73	16.2	1183.9	6.12
250.0	1100.1	7.04	250.0	750.1	6.75	10.0	1190.1	6.06

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# ADE-12H+

## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
270.1	40.17	40.42	40.99	43.79	39.47	34.95
310.1	41.89	41.80	42.51	41.51	35.94	34.34
350.1	44.52	43.32	43.23	40.12	35.24	34.29
390.1	47.97	44.44	43.83	38.20	34.61	34.46
430.1	48.25	42.56	43.40	36.98	34.66	34.78
470.1	46.21	41.76	43.89	36.39	34.95	34.74
510.1	41.38	41.14	43.97	35.40	34.98	34.83
550.1	39.09	39.65	42.85	35.23	35.32	35.30
590.1	36.77	38.29	41.17	35.23	35.89	35.61
630.1	35.27	36.95	40.04	35.24	35.93	35.29
670.1	34.15	36.71	40.18	35.12	35.67	34.75
710.1	33.43	36.57	40.39	34.52	34.82	34.50
750.1	32.90	36.58	40.39	33.66	33.90	34.27
790.1	33.25	37.60	41.27	32.87	32.80	33.42
830.1	32.96	37.56	40.80	32.92	31.98	32.26
870.1	33.48	37.46	40.01	32.80	31.92	31.78
910.1	34.02	37.71	39.80	32.88	32.74	32.16
950.1	34.09	37.65	39.65	33.00	33.96	33.08
990.1	33.86	37.40	39.27	32.76	34.17	33.59
1030.1	33.33	36.73	38.75	32.41	34.03	34.02
1070.1	32.74	35.90	38.04	32.15	33.56	33.95
1110.1	31.90	34.88	37.09	30.99	32.61	33.60
1150.1	31.25	34.31	36.76	30.53	32.65	34.36
1190.1	30.55	33.74	36.52	29.13	31.36	33.79
1230.1	29.49	32.86	35.91	27.30	28.99	31.30
1270.1	28.46	32.05	35.26	26.63	27.52	29.50
1310.1	27.60	31.18	34.81	26.38	26.78	28.38
1370.1	26.81	30.57	34.70	25.78	26.44	27.81
1410.1	26.31	29.81	33.73	25.33	26.32	27.69
1470.1	26.01	29.43	33.34	25.18	26.46	28.10
1510.1	25.91	29.04	32.52	24.90	26.29	28.03
1570.1	25.75	28.70	31.75	24.75	26.41	28.35
1610.1	25.53	28.44	31.33	24.83	26.69	28.80
1670.1	25.01	27.98	30.81	24.52	26.78	29.38
1710.1	24.65	27.58	30.41	24.17	26.55	29.36
1770.1	24.24	27.06	29.69	24.17	26.84	29.88
1810.1	24.00	26.75	29.32	24.10	26.81	29.84
1870.1	23.99	26.73	29.13	24.32	27.11	30.06
1910.1	24.13	26.81	29.07	24.74	27.45	30.11
1970.1	24.67	27.24	29.18	25.72	28.15	29.95

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
270.1	300.1	22.53	24.69	25.62
310.1	340.1	21.40	23.93	25.15
350.1	380.1	20.43	23.12	24.32
390.1	420.1	20.43	22.79	23.81
430.1	460.1	19.55	22.52	23.98
470.1	500.1	20.07	23.27	25.20
510.1	540.1	19.14	22.90	25.03
550.1	580.1	18.86	22.34	22.93
590.1	620.1	18.89	21.50	21.95
630.1	660.1	19.12	21.51	22.51
670.1	700.1	20.34	22.74	24.60
710.1	740.1	21.01	24.98	27.97
750.1	780.1	22.78	27.76	29.73
790.1	820.1	23.43	25.64	24.95
830.1	860.1	22.36	21.41	20.41
870.1	900.1	20.46	19.00	17.88
910.1	940.1	18.67	17.47	16.42
950.1	980.1	16.80	15.82	15.07
990.1	1020.1	15.76	14.96	14.34
1030.1	1060.1	15.17	14.57	14.11
1070.1	1100.1	14.84	14.45	14.11
1110.1	1140.1	14.55	14.29	14.04
1150.1	1180.1	14.30	14.04	13.85
1190.1	1220.1	13.86	13.54	13.39
1230.1	1260.1	13.64	13.21	13.14
1270.1	1300.1	13.75	13.23	13.19
1310.1	1340.1	13.83	13.36	13.20
1370.1	1400.1	13.96	13.70	13.35
1410.1	1440.1	14.03	13.96	13.62
1470.1	1500.1	13.97	14.13	13.94
1510.1	1540.1	13.88	14.06	13.95
1570.1	1600.1	13.38	13.31	13.08
1610.1	1640.1	12.73	12.37	11.79
1670.1	1700.1	11.56	11.04	10.24
1710.1	1740.1	10.79	10.21	9.38
1770.1	1800.1	9.69	9.17	8.41
1810.1	1840.1	8.89	8.33	7.67
1870.1	1900.1	7.67	7.08	6.50
1910.1	1940.1	6.83	6.18	5.55
1970.1	2000.1	5.69	4.99	4.42

# Frequency Mixer

# ADE-12H+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+14	+17	+20
270.1	300.1	22.00	8.99	5.85
310.1	340.1	16.26	7.25	4.79
350.1	380.1	12.52	6.09	4.14
390.1	420.1	9.04	4.66	3.73
430.1	460.1	8.51	4.12	3.40
470.1	500.1	6.19	3.50	3.18
510.1	540.1	5.70	3.38	3.08
550.1	580.1	4.51	3.16	2.97
590.1	620.1	3.95	2.97	2.81
630.1	660.1	3.56	2.83	2.64
670.1	700.1	3.06	2.66	2.51
710.1	740.1	2.92	2.49	2.40
750.1	780.1	2.66	2.38	2.32
790.1	820.1	2.55	2.32	2.27
830.1	860.1	2.48	2.30	2.25
870.1	900.1	2.47	2.34	2.27
910.1	940.1	2.52	2.39	2.28
950.1	980.1	2.50	2.36	2.25
990.1	1020.1	2.46	2.32	2.20
1030.1	1060.1	2.44	2.28	2.16
1070.1	1100.1	2.37	2.21	2.10
1110.1	1140.1	2.29	2.12	2.00
1150.1	1180.1	2.15	1.94	1.81
1190.1	1220.1	1.98	1.74	1.62
1230.1	1260.1	1.93	1.62	1.49
1270.1	1300.1	1.86	1.54	1.38
1310.1	1340.1	1.78	1.48	1.30
1370.1	1400.1	1.66	1.42	1.25
1410.1	1440.1	1.63	1.42	1.27
1470.1	1500.1	1.72	1.55	1.41
1510.1	1540.1	1.81	1.68	1.55
1570.1	1600.1	1.95	1.98	1.94
1610.1	1640.1	1.90	2.00	2.06
1670.1	1700.1	1.92	1.98	2.06
1710.1	1740.1	2.03	2.04	2.08
1770.1	1800.1	2.21	2.18	2.17
1810.1	1840.1	2.28	2.24	2.20
1870.1	1900.1	2.35	2.28	2.24
1910.1	1940.1	2.34	2.25	2.20
1970.1	2000.1	2.28	2.17	2.10

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+14	+17	+20
270.1	34.75	27.59	10.89
310.1	32.79	15.67	7.38
350.1	30.49	14.15	6.24
390.1	25.56	10.37	5.16
430.1	22.58	8.72	4.34
470.1	19.76	7.76	4.03
510.1	15.39	5.70	3.67
550.1	15.96	5.28	3.47
590.1	12.09	4.40	3.34
630.1	11.31	4.01	3.26
670.1	9.18	3.61	3.14
710.1	7.47	3.35	3.09
750.1	6.83	3.21	3.06
790.1	5.46	3.05	3.11
830.1	5.04	2.94	3.12
870.1	4.29	2.76	3.06
910.1	3.90	2.65	3.04
950.1	3.54	2.57	3.02
990.1	3.23	2.54	3.06
1030.1	3.00	2.52	3.11
1070.1	2.79	2.52	3.15
1110.1	2.67	2.54	3.22
1150.1	2.51	2.56	3.30
1190.1	2.37	2.52	3.29
1230.1	2.21	2.47	3.29
1270.1	2.10	2.43	3.30
1310.1	2.07	2.42	3.30
1370.1	2.03	2.49	3.43
1410.1	1.99	2.49	3.42
1470.1	1.94	2.57	3.55
1510.1	1.92	2.57	3.56
1570.1	1.94	2.68	3.70
1610.1	1.96	2.71	3.73
1670.1	2.02	2.84	3.90
1710.1	2.06	2.89	3.95
1770.1	2.14	3.02	4.11
1810.1	2.19	3.09	4.19
1870.1	2.26	3.18	4.30
1910.1	2.31	3.24	4.36
1970.1	2.34	3.25	4.35

IF (OUT) (MHz)	IF VSWR @LO=1200.1MHz (:1)		
	@LO (dBm)		
	+14	+17	+20
10.1	2.35	1.69	1.45
16.1	2.40	1.76	1.50
22.1	2.58	1.88	1.60
28.1	2.38	1.72	1.48
34.1	2.49	1.81	1.54
40.1	2.31	1.69	1.43
46.1	2.24	1.65	1.42
52.1	2.33	1.71	1.46
58.1	2.25	1.65	1.40
64.1	2.21	1.64	1.40
70.1	2.27	1.68	1.43
76.1	2.26	1.66	1.43
82.1	2.35	1.73	1.48
88.1	2.34	1.73	1.48
94.1	2.36	1.75	1.50
100.1	2.34	1.73	1.48
106.1	2.39	1.78	1.53
112.1	2.36	1.76	1.51
118.1	2.39	1.77	1.52
124.1	2.36	1.75	1.49
130.1	2.40	1.79	1.53
136.1	2.41	1.80	1.54
142.1	2.39	1.78	1.53
148.1	2.36	1.76	1.52
154.1	2.40	1.81	1.55
160.1	2.38	1.79	1.54
166.1	2.44	1.84	1.58
172.1	2.41	1.82	1.57
178.1	2.40	1.81	1.56
184.1	2.44	1.84	1.59
190.1	2.41	1.82	1.57
196.1	2.45	1.84	1.59
202.1	2.43	1.83	1.58
208.1	2.45	1.85	1.60
214.1	2.43	1.85	1.60
220.1	2.47	1.88	1.63
226.1	2.41	1.85	1.60
232.1	2.45	1.88	1.63
244.1	2.41	1.86	1.61
250.1	2.41	1.85	1.60

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## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	13	15	27	17	31	28	50	42	48
1	-	14	+0	16	11	30	38	27	45	45	54	61
2	89	49	57	60	53	57	63	79	51	59	64	68
3	>100	61	59	54	69	50	57	62	71	64	71	79
4	>100	>93	>93	84	88	83	83	80	92	>93	90	89
5	>100	>93	>93	92	>93	84	92	84	86	91	>93	>93
6	>100	>93	>93	>93	>93	>93	>93	>93	91	>93	>93	>93
7	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
8	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 850.1 MHz; -1.00 dBm.  
 LO IN: 880.01 MHz; +17.00 dBm  
 IF OUT: 29.91 MHz; -7.34 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	23	27	39	31	42	42	62	57	61
1	-	14	+0	19	12	31	41	31	53	51	72	68
2	75	44	55	49	55	56	46	61	44	55	58	69
3	>100	42	46	46	55	34	38	52	62	44	63	66
4	>100	69	66	57	56	64	64	66	74	68	65	64
5	>100	58	65	60	62	49	59	51	59	57	61	59
6	>100	79	89	80	84	72	69	71	69	69	80	75
7	>100	86	80	96	79	81	70	71	66	67	63	75
8	>100	>103	>103	96	87	95	86	79	82	78	77	78
9	>100	>103	>103	>103	92	87	91	81	79	80	77	74
10	>100	>103	>103	>103	>103	96	>103	99	88	87	83	85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 850.1 MHz; 9.00 dBm.  
 LO IN: 880.01 MHz; +17.00 dBm  
 IF OUT: 29.91 MHz; 2.59 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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