

Frequency Mixer

ADE-R12MH+

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)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
10.1	40.1	7.39	6.66	6.46	10.1	40.1	17.64	21.79	24.94	10.1	40.1	0.56	0.45	0.38
70.1	100.1	7.34	6.77	6.48	70.1	100.1	18.34	20.86	24.74	70.1	100.1	0.52	0.48	0.37
130.1	160.1	7.52	6.79	6.47	130.1	160.1	18.88	23.57	20.70	130.1	160.1	0.37	0.40	0.34
190.1	220.1	7.27	6.57	6.36	190.1	220.1	18.35	19.63	23.05	190.1	220.1	0.53	0.52	0.41
250.1	280.1	7.14	6.64	6.47	250.1	280.1	18.44	19.84	27.08	250.1	280.1	0.62	0.45	0.35
310.1	340.1	7.13	6.64	6.45	310.1	340.1	17.60	20.91	28.45	310.1	340.1	0.61	0.43	0.36
350.1	380.1	7.11	6.69	6.51	350.1	380.1	17.36	23.50	27.74	350.1	380.1	0.59	0.42	0.36
410.1	440.1	7.18	6.79	6.59	410.1	440.1	17.15	21.07	24.28	410.1	440.1	0.51	0.34	0.30
450.1	480.1	7.11	6.69	6.50	450.1	480.1	17.19	25.38	26.40	450.1	480.1	0.60	0.47	0.41
510.1	540.1	7.25	6.83	6.56	510.1	540.1	18.81	22.05	25.85	510.1	540.1	0.51	0.40	0.39
550.1	580.1	7.19	6.83	6.61	550.1	580.1	21.60	22.94	23.89	550.1	580.1	0.67	0.50	0.44
610.1	640.1	7.32	6.80	6.57	610.1	640.1	21.91	23.38	24.40	610.1	640.1	0.70	0.58	0.50
650.1	680.1	7.28	6.76	6.50	650.1	680.1	18.52	26.44	24.46	650.1	680.1	0.77	0.71	0.60
710.1	740.1	7.50	7.03	6.70	710.1	740.1	17.69	20.05	25.72	710.1	740.1	0.86	0.73	0.70
750.1	780.1	7.57	7.17	6.83	750.1	780.1	17.71	18.98	21.63	750.1	780.1	0.92	0.76	0.73
810.1	840.1	7.71	7.29	6.99	810.1	840.1	18.67	20.42	22.24	810.1	840.1	0.97	0.81	0.79
850.1	880.1	7.49	6.99	6.63	850.1	880.1	21.03	22.49	22.76	850.1	880.1	1.25	1.12	1.12
910.1	940.1	7.29	6.74	6.49	910.1	940.1	20.28	20.48	20.62	910.1	940.1	1.84	1.58	1.43
950.1	980.1	7.36	6.69	6.43	950.1	980.1	19.23	18.30	18.83	950.1	980.1	1.97	1.79	1.61
1010.1	1040.1	7.69	6.75	6.38	1010.1	1040.1	17.05	16.39	16.66	1010.1	1040.1	1.82	1.94	1.80
1050.1	1080.1	7.69	6.72	6.27	1050.1	1080.1	15.81	15.98	15.94	1050.1	1080.1	1.89	2.07	1.95
1110.1	1140.1	7.73	6.81	6.25	1110.1	1140.1	14.18	14.88	14.93	1110.1	1140.1	2.05	2.18	2.14
1150.1	1180.1	7.80	6.99	6.38	1150.1	1180.1	12.73	13.39	13.76	1150.1	1180.1	2.08	2.14	2.12
1210.1	1240.1	7.87	7.16	6.57	1210.1	1240.1	11.02	11.89	12.60	1210.1	1240.1	2.11	2.09	2.08
1250.1	1280.1	7.85	7.29	6.78	1250.1	1280.1	10.66	11.41	12.25	1250.1	1280.1	2.25	2.16	2.09
1310.1	1340.1	7.91	7.47	7.05	1310.1	1340.1	9.87	10.28	10.99	1310.1	1340.1	2.33	2.15	2.02
1350.1	1380.1	8.17	7.80	7.43	1350.1	1380.1	9.47	9.66	10.17	1350.1	1380.1	2.26	2.03	1.89
1410.1	1440.1	8.22	7.86	7.47	1410.1	1440.1	9.85	10.02	10.91	1410.1	1440.1	2.10	1.87	1.76
1450.1	1480.1	8.32	7.93	7.55	1450.1	1480.1	10.86	11.81	13.71	1450.1	1480.1	2.02	1.77	1.68
1510.1	1540.1	8.23	7.87	7.67	1510.1	1540.1	14.45	16.17	17.07	1510.1	1540.1	1.85	1.54	1.37
1550.1	1580.1	8.48	8.24	8.10	1550.1	1580.1	16.91	17.68	17.97	1550.1	1580.1	1.66	1.27	1.10
1610.1	1640.1	8.68	8.52	8.42	1610.1	1640.1	18.65	18.98	19.25	1610.1	1640.1	1.32	0.96	0.80
1650.1	1680.1	9.10	8.95	8.86	1650.1	1680.1	19.58	19.81	19.98	1650.1	1680.1	1.10	0.74	0.60
1710.1	1740.1	9.58	9.43	9.34	1710.1	1740.1	21.18	21.20	21.27	1710.1	1740.1	0.80	0.50	0.39
1750.1	1780.1	10.07	9.89	9.78	1750.1	1780.1	22.05	22.49	22.14	1750.1	1780.1	0.63	0.37	0.30
1810.1	1840.1	10.69	10.50	10.39	1810.1	1840.1	22.93	24.52	24.19	1810.1	1840.1	0.46	0.28	0.23
1850.1	1880.1	11.16	10.92	10.80	1850.1	1880.1	23.61	25.07	25.97	1850.1	1880.1	0.33	0.20	0.17
1910.1	1940.1	11.84	11.57	11.45	1910.1	1940.1	22.04	25.47	27.10	1910.1	1940.1	0.16	0.12	0.12
1950.1	1980.1	12.18	11.87	11.73	1950.1	1980.1	20.01	24.41	27.46	1950.1	1980.1	0.07	0.08	0.09
2010.1	2040.1	12.92	12.49	12.34	2010.1	2040.1	18.03	21.53	25.20	2010.1	2040.1	-0.07	0.04	0.08

REV. X2

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Frequency Mixer

ADE-R12MH+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=610.1MHz (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)=1210.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
600.1	10.0	7.20	10.1	20.1	6.47	1200.1	10.0	8.11
580.1	30.0	7.01	49.7	59.7	6.51	1170.1	40.0	7.89
560.1	50.0	7.03	89.2	99.2	6.76	1140.1	70.0	7.69
550.1	60.0	6.96	128.8	138.8	6.78	1110.1	100.0	7.57
530.1	80.0	7.03	168.4	178.4	6.69	1080.1	130.0	7.49
520.1	90.0	6.95	207.9	217.9	6.70	1050.1	160.0	7.40
500.1	110.0	6.90	247.5	257.5	6.80	1020.1	190.0	7.42
490.1	120.0	6.83	287.1	297.1	6.76	990.1	220.0	7.42
470.1	140.0	6.79	326.6	336.6	6.94	960.1	250.0	7.32
460.1	150.0	6.72	366.2	376.2	6.89	930.1	280.0	7.30
440.1	170.0	6.68	405.8	415.8	6.97	900.1	310.0	7.29
430.1	180.0	6.64	445.3	455.3	7.05	870.1	340.0	7.24
410.1	200.0	6.63	484.9	494.9	7.05	840.1	370.0	7.23
400.1	210.0	6.65	544.2	554.2	7.11	810.1	400.0	7.21
380.1	230.0	6.58	583.8	593.8	7.37	780.1	430.0	7.15
370.1	240.0	6.62	643.1	653.1	7.58	750.1	460.0	7.09
350.1	260.0	6.61	682.7	692.7	7.82	720.1	490.0	6.99
340.1	270.0	6.62	742.1	752.1	8.17	690.1	520.0	6.98
320.1	290.0	6.58	781.6	791.6	8.22	660.1	550.0	6.98
310.1	300.0	6.65	841.0	851.0	7.93	630.1	580.0	6.91
290.1	320.0	6.60	880.5	890.5	7.57	600.1	610.0	6.82
280.1	330.0	6.61	939.9	949.9	7.42	570.1	640.0	6.69
260.1	350.0	6.63	979.4	989.4	7.39	540.1	670.0	6.66
250.1	360.0	6.61	1038.8	1048.8	7.41	510.1	700.0	6.69
230.1	380.0	6.63	1078.4	1088.4	7.51	480.1	730.0	6.70
220.1	390.0	6.64	1137.7	1147.7	7.78	450.1	760.0	6.71
200.1	410.0	6.71	1177.3	1187.3	7.71	420.1	790.0	6.57
190.1	420.0	6.71	1236.6	1246.6	7.95	390.1	820.0	6.57
170.1	440.0	6.75	1276.2	1286.2	7.83	360.1	850.0	6.51
160.1	450.0	6.72	1335.5	1345.5	8.22	330.1	880.0	6.23
140.1	470.0	6.73	1375.1	1385.1	8.33	300.1	910.0	6.01
130.1	480.0	6.66	1434.4	1444.4	8.54	270.1	940.0	5.94
110.1	500.0	6.70	1474.0	1484.0	8.36	240.1	970.0	5.84
100.1	510.0	6.73	1533.4	1543.4	8.45	210.1	1000.0	5.86
80.1	530.0	6.74	1572.9	1582.9	8.63	180.1	1030.0	5.90
70.1	540.0	6.81	1632.3	1642.3	8.99	150.1	1060.0	5.92
50.1	560.0	6.76	1671.8	1681.8	9.09	110.1	1100.0	6.13
40.1	570.0	6.78	1731.2	1741.2	9.53	80.1	1130.0	6.32
20.1	590.0	6.77	1770.8	1780.8	9.89	40.1	1170.0	6.61
10.1	600.0	6.79	1830.1	1840.1	10.47	10.1	1200.0	6.75

Frequency Mixer

ADE-R12MH+

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)		
	+10	+13	+16	+10	+13	+16			+10	+13	+16
40.1	66.31	68.51	70.63	57.45	53.09	50.78	10.1	40.1	48.85	48.67	47.92
100.1	60.94	62.61	63.64	50.52	46.53	44.19	70.1	100.1	33.38	33.44	33.37
160.1	58.92	61.31	62.35	48.14	43.37	41.16	130.1	160.1	28.53	28.62	28.56
220.1	54.82	56.95	59.44	46.07	41.90	39.04	190.1	220.1	25.65	25.72	25.85
280.1	51.92	54.87	57.28	47.13	41.37	38.19	250.1	280.1	23.99	24.19	24.23
340.1	51.27	54.28	57.48	47.84	40.64	37.30	310.1	340.1	22.83	22.92	22.99
380.1	50.79	54.23	57.27	48.21	40.44	37.25	350.1	380.1	22.31	22.52	22.65
440.1	50.33	53.90	57.82	45.29	39.97	36.76	410.1	440.1	21.70	22.00	22.16
480.1	49.05	51.92	54.97	44.43	39.62	36.76	450.1	480.1	21.05	21.31	21.58
540.1	46.80	49.86	54.27	42.30	39.73	36.28	510.1	540.1	19.92	20.28	20.74
580.1	47.76	51.13	55.74	40.75	39.70	37.16	550.1	580.1	19.57	20.02	20.48
640.1	50.40	57.18	72.08	39.72	37.44	35.46	610.1	640.1	19.79	20.84	21.50
680.1	51.79	63.27	67.66	41.06	37.77	35.28	650.1	680.1	19.72	20.71	21.35
740.1	52.85	60.54	66.37	40.88	40.29	37.25	710.1	740.1	19.12	19.67	20.01
780.1	51.10	54.84	58.85	39.47	41.20	38.88	750.1	780.1	18.07	18.33	18.46
840.1	47.87	49.76	51.70	36.44	39.71	40.04	810.1	840.1	16.77	16.91	16.87
880.1	45.98	47.98	50.36	34.74	38.60	39.19	850.1	880.1	15.99	16.02	16.07
940.1	44.82	47.94	51.38	32.54	35.59	37.12	910.1	940.1	15.39	15.57	15.66
980.1	43.80	47.02	50.68	31.42	34.11	36.02	950.1	980.1	15.24	15.45	15.65
1040.1	41.48	44.39	47.35	31.06	33.09	35.10	1010.1	1040.1	15.34	15.65	15.94
1080.1	40.46	43.28	46.23	30.87	32.79	34.80	1050.1	1080.1	15.55	15.85	16.26
1140.1	39.48	42.60	46.33	31.29	33.69	35.37	1110.1	1140.1	16.14	16.34	16.50
1180.1	38.74	41.82	45.50	31.33	34.49	36.31	1150.1	1180.1	16.81	16.94	16.97
1240.1	37.70	40.50	43.48	31.48	36.14	39.80	1210.1	1240.1	17.96	18.10	17.91
1280.1	36.67	39.31	41.96	31.40	36.61	43.11	1250.1	1280.1	18.83	18.95	18.81
1340.1	36.01	38.77	41.47	31.51	37.07	46.40	1310.1	1340.1	19.35	19.36	19.05
1380.1	35.41	38.05	40.55	31.16	35.97	41.44	1350.1	1380.1	18.97	18.82	18.38
1440.1	34.49	36.88	39.00	30.94	34.32	36.30	1410.1	1440.1	17.21	16.58	15.85
1480.1	33.53	35.73	37.80	30.25	32.61	33.76	1450.1	1480.1	15.68	14.68	13.86
1540.1	33.07	35.29	36.79	30.04	31.78	32.47	1510.1	1540.1	12.97	12.01	11.49
1580.1	33.21	35.11	36.23	30.23	31.50	31.47	1550.1	1580.1	11.46	10.75	10.36
1640.1	33.63	34.96	35.66	31.13	30.83	29.88	1610.1	1640.1	9.79	9.29	8.97
1680.1	33.55	34.35	34.63	31.44	30.16	28.87	1650.1	1680.1	8.95	8.48	8.19
1740.1	33.61	33.43	32.95	30.99	28.86	27.33	1710.1	1740.1	7.85	7.42	7.18
1780.1	33.54	32.81	32.05	30.30	28.02	26.52	1750.1	1780.1	7.27	6.83	6.59
1840.1	33.15	31.73	30.73	28.43	26.53	25.22	1810.1	1840.1	6.43	6.03	5.77
1880.1	32.77	31.08	29.90	27.79	26.16	24.93	1850.1	1880.1	6.01	5.61	5.38
1940.1	30.47	28.92	27.98	25.91	24.76	23.92	1910.1	1940.1	5.46	5.06	4.85
1980.1	29.66	28.17	27.06	25.10	24.17	23.23	1950.1	1980.1	5.10	4.70	4.52
2040.1	28.08	26.88	25.79	23.75	23.25	22.43	2010.1	2040.1	4.73	4.36	4.14

Frequency Mixer

ADE-R12MH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1210.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
10.1	40.1	1.58	1.40	1.33	40.1	1.10	1.63	2.55	10.0	2.20	1.84	1.58
70.1	100.1	1.53	1.41	1.33	100.1	1.13	1.51	2.26	50.3	2.25	1.88	1.61
130.1	160.1	1.53	1.39	1.31	160.1	1.22	1.55	2.29	90.7	2.26	1.89	1.62
190.1	220.1	1.56	1.41	1.34	220.1	1.23	1.59	2.37	110.8	2.31	1.94	1.66
250.1	280.1	1.53	1.42	1.38	280.1	1.30	1.57	2.29	151.2	2.33	1.95	1.65
310.1	340.1	1.54	1.45	1.40	340.1	1.31	1.62	2.37	171.4	2.39	2.00	1.70
350.1	380.1	1.55	1.47	1.43	380.1	1.30	1.63	2.38	211.7	2.37	1.98	1.65
410.1	440.1	1.55	1.49	1.46	440.1	1.27	1.67	2.44	231.9	2.45	2.05	1.72
450.1	480.1	1.58	1.51	1.48	480.1	1.26	1.71	2.48	272.2	2.45	2.04	1.70
510.1	540.1	1.57	1.52	1.48	540.1	1.28	1.76	2.53	292.4	2.49	2.07	1.73
550.1	580.1	1.56	1.52	1.49	580.1	1.29	1.82	2.61	332.7	2.51	2.08	1.72
610.1	640.1	1.54	1.49	1.47	640.1	1.29	1.85	2.63	352.9	2.52	2.09	1.73
650.1	680.1	1.54	1.50	1.48	680.1	1.32	1.92	2.73	393.2	2.52	2.08	1.72
710.1	740.1	1.55	1.51	1.50	740.1	1.36	1.97	2.78	413.4	2.48	2.06	1.70
750.1	780.1	1.56	1.53	1.51	780.1	1.41	2.06	2.89	453.7	2.56	2.12	1.75
810.1	840.1	1.55	1.53	1.51	840.1	1.45	2.10	2.92	473.9	2.46	2.04	1.69
850.1	880.1	1.52	1.49	1.47	880.1	1.48	2.15	2.98	514.2	2.50	2.07	1.72
910.1	940.1	1.45	1.42	1.41	940.1	1.50	2.18	3.01	534.4	2.45	2.03	1.68
950.1	980.1	1.39	1.36	1.35	980.1	1.57	2.26	3.11	574.7	2.41	2.01	1.68
1010.1	1040.1	1.32	1.27	1.27	1040.1	1.66	2.36	3.19	594.9	2.38	1.98	1.65
1050.1	1080.1	1.23	1.19	1.20	1080.1	1.73	2.44	3.27	635.3	2.33	1.96	1.63
1110.1	1140.1	1.13	1.07	1.11	1140.1	1.82	2.55	3.38	655.4	2.32	1.95	1.63
1150.1	1180.1	1.09	1.03	1.11	1180.1	1.87	2.60	3.44	695.8	2.19	1.85	1.55
1210.1	1240.1	1.19	1.19	1.23	1240.1	1.98	2.73	3.58	715.9	2.22	1.88	1.58
1250.1	1280.1	1.30	1.32	1.34	1280.1	2.00	2.74	3.58	756.3	2.10	1.79	1.52
1310.1	1340.1	1.52	1.54	1.57	1340.1	2.09	2.83	3.67	776.4	2.07	1.78	1.52
1350.1	1380.1	1.66	1.69	1.72	1380.1	2.09	2.80	3.61	816.8	2.00	1.73	1.48
1410.1	1440.1	1.89	1.95	2.00	1440.1	2.13	2.82	3.61	836.9	1.99	1.73	1.50
1450.1	1480.1	2.04	2.13	2.20	1480.1	2.08	2.73	3.50	877.3	1.88	1.65	1.43
1510.1	1540.1	2.29	2.39	2.43	1540.1	2.07	2.75	3.56	897.5	1.87	1.64	1.44
1550.1	1580.1	2.41	2.48	2.51	1580.1	2.08	2.74	3.54	937.8	1.81	1.61	1.43
1610.1	1640.1	2.52	2.56	2.58	1640.1	2.25	2.89	3.65	958.0	1.76	1.57	1.40
1650.1	1680.1	2.54	2.57	2.58	1680.1	2.35	2.93	3.66	998.3	1.73	1.56	1.41
1710.1	1740.1	2.59	2.58	2.58	1740.1	2.57	3.08	3.76	1018.5	1.68	1.52	1.39
1750.1	1780.1	2.55	2.53	2.52	1780.1	2.68	3.14	3.79	1058.8	1.65	1.51	1.41
1810.1	1840.1	2.54	2.50	2.48	1840.1	2.88	3.25	3.83	1079.0	1.61	1.48	1.37
1850.1	1880.1	2.47	2.41	2.37	1880.1	2.99	3.31	3.86	1119.3	1.59	1.49	1.41
1910.1	1940.1	2.44	2.37	2.33	1940.1	3.19	3.42	3.90	1139.5	1.55	1.46	1.39
1950.1	1980.1	2.36	2.28	2.25	1980.1	3.30	3.48	3.95	1179.8	1.51	1.44	1.40
2010.1	2040.1	2.33	2.24	2.20	2040.1	3.46	3.55	3.93	1200.0	1.54	1.46	1.42

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	26	13	26	19	47	21	40	39	54
1	-	14	+0	34	12	32	29	41	52	37	50	48
2	74	58	53	56	53	67	56	72	62	74	59	72
3	>90	65	64	66	67	67	66	72	>77	>77	>77	>77
4	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
5	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
6	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
7	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
8	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
9	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
10	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 605 MHz; -6.00 dBm.
 LO IN: 635 MHz; +13.00 dBm
 IF OUT: 30 MHz; -12.85 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	36	24	37	31	59	33	53	53	69
1	-	15	+0	32	12	32	30	43	54	41	56	54
2	54	52	45	57	43	55	44	61	53	68	51	69
3	84	43	43	49	48	49	43	71	64	63	66	55
4	>90	74	63	59	68	59	62	61	64	75	75	77
5	>90	70	74	71	57	64	59	70	58	61	73	75
6	>90	>87	>87	84	73	75	70	76	68	71	72	>87
7	>90	>87	>87	>87	81	78	71	74	73	71	73	85
8	>90	>87	>87	>87	>87	>87	81	82	>87	80	78	81
9	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>90	>87	>87	>87	>87	>87	>87	>87	>87	86	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 605 MHz; 4.00 dBm.
 LO IN: 635 MHz; +13.00 dBm
 IF OUT: 30 MHz; -2.85 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.