

Frequency Mixer

ADE-R2ASKLH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	5.43	5.09	4.93
50.1	80.1	6.03	5.74	5.55
90.1	120.1	5.94	5.69	5.58
130.1	160.1	5.97	5.74	5.61
170.1	200.1	5.95	5.74	5.64
210.1	240.1	6.02	5.79	5.68
250.1	280.1	6.06	5.86	5.75
290.1	320.1	6.05	5.85	5.72
330.1	360.1	6.13	5.92	5.80
370.1	400.1	6.13	5.90	5.76
410.1	440.1	6.32	5.98	5.78
450.1	480.1	6.36	6.16	5.98
490.1	520.1	6.37	6.17	6.03
530.1	560.1	6.42	6.17	6.01
570.1	600.1	6.45	6.14	5.99
610.1	640.1	6.66	6.21	6.02
650.1	680.1	7.08	6.38	6.10
690.1	720.1	7.52	6.76	6.22
730.1	760.1	7.83	7.12	6.47
770.1	800.1	7.98	7.31	6.70
810.1	840.1	8.25	7.58	6.99
850.1	880.1	8.29	7.64	7.18
890.1	920.1	8.34	7.73	7.32
930.1	960.1	8.18	7.66	7.31
970.1	1000.1	8.12	7.70	7.38
990.1	1020.1	8.12	7.73	7.41
1030.1	1060.1	8.14	7.80	7.58
1050.1	1080.1	8.16	7.87	7.70
1090.1	1120.1	8.39	8.16	8.06
1110.1	1140.1	8.57	8.37	8.28
1150.1	1180.1	8.81	8.67	8.62
1170.1	1200.1	9.00	8.91	8.90
1210.1	1240.1	9.56	9.44	9.42
1230.1	1260.1	9.73	9.59	9.58
1270.1	1300.1	10.34	10.17	10.15
1290.1	1320.1	10.66	10.43	10.37
1330.1	1360.1	11.21	10.94	10.86
1350.1	1380.1	11.56	11.29	11.22
1390.1	1420.1	12.29	12.01	11.91
1410.1	1440.1	12.67	12.39	12.29

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	22.30	23.98	25.12
50.1	80.1	22.06	22.02	23.68
90.1	120.1	22.51	22.41	23.54
130.1	160.1	22.83	21.65	22.71
170.1	200.1	19.92	22.62	20.49
210.1	240.1	19.59	20.83	18.89
250.1	280.1	20.33	18.27	17.45
290.1	320.1	19.39	20.08	19.75
330.1	360.1	15.07	14.12	14.39
370.1	400.1	21.33	18.98	17.64
410.1	440.1	17.09	22.10	20.61
450.1	480.1	13.94	13.74	15.16
490.1	520.1	16.18	16.06	16.12
530.1	560.1	16.95	15.38	15.28
570.1	600.1	16.47	14.73	18.80
610.1	640.1	15.80	16.85	21.05
650.1	680.1	9.99	16.73	23.61
690.1	720.1	6.53	11.39	19.77
730.1	760.1	6.03	9.12	12.16
770.1	800.1	7.34	9.89	11.25
810.1	840.1	8.38	10.41	10.76
850.1	880.1	9.54	9.86	11.57
890.1	920.1	11.21	11.13	15.71
930.1	960.1	11.79	13.85	20.22
970.1	1000.1	11.91	17.52	14.91
990.1	1020.1	12.26	19.04	15.27
1030.1	1060.1	13.24	17.03	15.39
1050.1	1080.1	13.64	16.70	16.00
1090.1	1120.1	14.19	16.40	16.93
1110.1	1140.1	14.29	16.26	17.23
1150.1	1180.1	13.18	15.38	17.87
1170.1	1200.1	12.97	16.31	18.70
1210.1	1240.1	13.04	17.43	18.37
1230.1	1260.1	13.65	15.70	17.57
1270.1	1300.1	14.94	14.55	17.56
1290.1	1320.1	14.77	14.34	17.41
1330.1	1360.1	15.25	15.66	17.48
1350.1	1380.1	15.32	16.77	17.80
1390.1	1420.1	15.34	17.94	18.64
1410.1	1440.1	15.27	17.91	18.46

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	1.50	1.21	0.92
50.1	80.1	1.00	0.75	0.49
90.1	120.1	1.15	0.77	0.55
130.1	160.1	1.03	0.74	0.50
170.1	200.1	1.08	0.76	0.56
210.1	240.1	1.02	0.69	0.48
250.1	280.1	0.98	0.67	0.50
290.1	320.1	0.97	0.71	0.54
330.1	360.1	0.92	0.64	0.48
370.1	400.1	1.00	0.73	0.57
410.1	440.1	0.87	0.68	0.53
450.1	480.1	0.98	0.74	0.61
490.1	520.1	1.08	0.81	0.66
530.1	560.1	1.29	0.94	0.76
570.1	600.1	1.55	1.10	0.85
610.1	640.1	1.75	1.27	0.98
650.1	680.1	1.72	1.46	1.15
690.1	720.1	1.57	1.51	1.33
730.1	760.1	1.50	1.45	1.42
770.1	800.1	1.52	1.49	1.46
810.1	840.1	1.38	1.40	1.38
850.1	880.1	1.40	1.35	1.23
890.1	920.1	1.44	1.32	1.14
930.1	960.1	1.58	1.34	1.14
970.1	1000.1	1.61	1.26	1.08
990.1	1020.1	1.63	1.25	1.08
1030.1	1060.1	1.64	1.20	0.98
1050.1	1080.1	1.63	1.16	0.93
1090.1	1120.1	1.54	1.01	0.80
1110.1	1140.1	1.44	0.95	0.76
1150.1	1180.1	1.41	0.87	0.69
1170.1	1200.1	1.34	0.81	0.63
1210.1	1240.1	1.27	0.78	0.62
1230.1	1260.1	1.28	0.81	0.66
1270.1	1300.1	1.28	0.85	0.69
1290.1	1320.1	1.26	0.89	0.73
1330.1	1360.1	1.35	0.99	0.87
1350.1	1380.1	1.38	0.96	0.85
1390.1	1420.1	1.45	0.99	0.93
1410.1	1440.1	1.52	1.00	0.98

Frequency Mixer

ADE-R2ASKLH+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=510.1MHz (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)=1010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
500.1	10.0	6.25	10.1	20.1	5.54	1000.1	10.0	8.83
490.1	20.0	6.10	30.1	40.1	4.98	978.3	31.8	8.78
480.1	30.0	6.07	50.1	60.1	5.07	956.6	53.5	8.69
470.1	40.0	5.99	70.1	80.1	5.03	934.8	75.3	8.77
460.1	50.0	6.05	90.1	100.1	4.99	913.1	97.0	8.64
450.1	60.0	5.99	110.1	120.1	5.07	891.3	118.8	8.60
440.1	70.0	6.01	130.1	140.1	5.07	869.6	140.5	8.47
430.1	80.0	6.03	150.1	160.1	5.16	847.8	162.3	8.49
420.1	90.0	6.03	170.1	180.1	5.04	826.0	184.1	8.44
410.1	100.0	5.95	190.1	200.1	5.03	804.3	205.8	8.41
400.1	110.0	5.89	210.1	220.1	5.00	782.5	227.6	8.31
390.1	120.0	5.86	230.1	240.1	5.32	760.8	249.3	8.28
380.1	130.0	5.83	250.1	260.1	5.26	739.0	271.1	8.23
370.1	140.0	5.86	270.1	280.1	5.14	717.2	292.9	8.18
360.1	150.0	5.87	290.1	300.1	5.15	695.5	314.6	8.08
350.1	160.0	5.90	310.1	320.1	5.25	662.8	347.3	8.09
340.1	170.0	5.85	330.1	340.1	5.24	641.1	369.0	8.03
330.1	180.0	5.90	350.1	360.1	5.33	608.5	401.6	7.90
320.1	190.0	5.87	370.1	380.1	5.28	586.7	423.4	7.80
310.1	200.0	5.92	390.1	400.1	5.24	554.1	456.0	7.94
290.1	220.0	5.89	430.1	440.1	5.87	532.3	477.8	7.97
280.1	230.0	5.87	450.1	460.1	5.54	499.7	510.4	7.98
260.1	250.0	5.92	490.1	500.1	5.60	477.9	532.2	7.88
250.1	260.0	5.94	510.1	520.1	5.72	445.3	564.8	7.64
230.1	280.0	5.92	550.1	560.1	5.59	423.5	586.6	7.60
220.1	290.0	5.94	570.1	580.1	5.52	390.9	619.2	7.40
200.1	310.0	5.95	610.1	620.1	5.33	369.1	641.0	7.43
190.1	320.0	5.92	630.1	640.1	5.35	336.5	673.6	7.46
170.1	340.0	5.97	670.1	680.1	5.56	314.7	695.4	7.64
160.1	350.0	6.06	690.1	700.1	5.48	282.1	728.0	7.98
140.1	370.0	6.07	730.1	740.1	5.76	260.3	749.8	8.24
130.1	380.0	6.04	750.1	760.1	5.76	227.7	782.4	8.33
110.1	400.0	6.04	790.1	800.1	5.74	205.9	804.2	8.36
100.1	410.0	6.04	810.1	820.1	5.74	173.3	836.8	8.52
80.1	430.0	6.02	850.1	860.1	5.64	151.5	858.6	8.47
70.1	440.0	6.05	870.1	880.1	5.51	118.9	891.2	8.36
50.1	460.0	6.19	910.1	920.1	5.69	97.1	913.0	8.20
40.1	470.0	6.15	930.1	940.1	5.67	64.5	945.6	8.20
20.1	490.0	6.21	970.1	980.1	5.82	42.7	967.4	8.05
10.1	500.0	6.40	990.1	1000.1	5.85	10.1	1000.0	8.06

REV. X2

ADE-R2ASKLH+

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Frequency Mixer

ADE-R2ASKLH+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
10.1	83.71	78.97	76.11	59.32	58.88	58.71
50.1	86.03	78.51	77.55	50.20	48.47	47.36
90.1	71.64	83.19	79.70	45.41	43.72	42.69
130.1	64.36	70.05	76.05	42.16	40.79	39.98
170.1	59.78	63.78	68.00	40.31	39.07	38.14
210.1	55.84	59.21	62.32	39.14	37.84	36.91
250.1	53.04	55.27	56.93	38.44	37.01	35.81
290.1	51.71	53.40	54.41	37.72	36.10	35.01
330.1	48.51	49.97	50.96	37.35	35.46	33.95
370.1	46.51	47.42	48.18	36.70	34.80	33.34
410.1	45.25	46.00	46.94	34.93	33.23	31.96
450.1	44.17	44.48	44.69	33.55	31.42	30.13
490.1	43.29	43.47	43.33	32.40	30.92	29.70
530.1	42.83	42.83	42.80	31.11	29.64	28.60
570.1	42.54	42.76	42.09	29.85	28.34	27.03
610.1	42.53	41.97	40.69	28.41	26.76	25.24
650.1	41.73	41.02	40.00	27.44	25.36	24.10
690.1	41.33	40.56	39.59	27.30	24.55	23.19
730.1	41.40	41.00	39.96	27.01	24.52	22.44
770.1	40.58	40.62	39.64	26.42	24.38	22.25
810.1	39.38	39.80	38.68	25.44	24.03	22.16
850.1	39.14	39.59	37.53	24.57	23.51	21.57
890.1	38.88	38.04	35.44	23.75	22.63	20.66
930.1	38.33	36.12	33.31	22.85	21.76	19.54
970.1	37.21	34.39	31.59	21.96	20.95	18.61
990.1	36.03	32.82	30.18	21.57	20.32	18.06
1030.1	34.05	30.94	28.62	20.33	19.29	17.23
1050.1	33.13	30.14	27.97	19.76	18.73	16.81
1090.1	30.71	28.03	26.02	18.74	17.88	16.16
1110.1	29.59	27.13	25.02	18.14	17.45	15.74
1150.1	27.28	25.32	23.40	16.94	16.60	15.24
1170.1	26.41	24.69	22.78	16.38	16.26	14.90
1210.1	24.26	22.83	21.09	15.36	15.50	14.43
1230.1	23.15	21.66	20.24	14.87	15.04	14.23
1270.1	21.49	20.28	19.04	14.00	14.44	13.85
1290.1	20.87	19.69	18.55	13.72	14.23	13.76
1330.1	19.63	18.63	17.61	13.14	13.79	13.44
1350.1	19.14	18.04	16.92	12.81	13.37	12.98
1390.1	18.36	17.35	16.38	12.42	13.05	12.88
1410.1	18.06	17.05	15.99	12.46	13.12	12.93

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	47.62	47.26	47.26
50.1	80.1	34.67	34.45	34.76
90.1	120.1	29.91	30.11	30.01
130.1	160.1	27.18	27.24	27.57
170.1	200.1	25.39	25.52	25.56
210.1	240.1	24.27	24.35	24.64
250.1	280.1	23.70	23.88	23.93
290.1	320.1	23.20	23.62	24.03
330.1	360.1	22.95	23.35	23.60
370.1	400.1	23.09	23.39	23.78
410.1	440.1	23.30	23.86	24.35
450.1	480.1	23.49	23.91	24.20
490.1	520.1	22.97	23.41	23.60
530.1	560.1	21.31	21.47	21.85
570.1	600.1	19.81	20.18	20.65
610.1	640.1	18.53	18.87	19.17
650.1	680.1	17.89	18.06	18.22
690.1	720.1	17.65	17.88	18.17
730.1	760.1	17.41	17.64	18.32
770.1	800.1	17.65	17.67	18.32
810.1	840.1	17.71	17.48	18.03
850.1	880.1	17.46	17.58	18.06
890.1	920.1	16.85	16.97	17.03
930.1	960.1	15.85	15.68	15.51
970.1	1000.1	14.44	14.23	14.15
990.1	1020.1	13.79	13.60	13.53
1030.1	1060.1	12.58	12.43	12.35
1050.1	1080.1	12.13	12.01	11.85
1090.1	1120.1	11.18	10.94	10.65
1110.1	1140.1	10.70	10.41	10.09
1150.1	1180.1	9.79	9.43	9.09
1170.1	1200.1	9.28	8.91	8.58
1210.1	1240.1	8.39	8.04	7.70
1230.1	1260.1	7.92	7.58	7.24
1270.1	1300.1	6.98	6.70	6.43
1290.1	1320.1	6.52	6.35	6.09
1330.1	1360.1	5.87	5.73	5.49
1350.1	1380.1	5.65	5.48	5.34
1390.1	1420.1	5.22	5.05	4.89
1410.1	1440.1	5.01	4.83	4.68

Frequency Mixer

ADE-R2ASKLH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	1.14	1.06	1.08
50.1	80.1	1.13	1.06	1.02
90.1	120.1	1.13	1.04	1.02
130.1	160.1	1.11	1.03	1.03
170.1	200.1	1.10	1.02	1.03
210.1	240.1	1.09	1.01	1.04
250.1	280.1	1.07	1.02	1.05
290.1	320.1	1.06	1.03	1.09
330.1	360.1	1.05	1.02	1.06
370.1	400.1	1.04	1.06	1.12
410.1	440.1	1.06	1.10	1.17
450.1	480.1	1.07	1.11	1.16
490.1	520.1	1.10	1.15	1.20
530.1	560.1	1.11	1.18	1.25
570.1	600.1	1.13	1.22	1.28
610.1	640.1	1.11	1.20	1.26
650.1	680.1	1.11	1.16	1.22
690.1	720.1	1.20	1.17	1.22
730.1	760.1	1.29	1.24	1.23
770.1	800.1	1.41	1.37	1.33
810.1	840.1	1.59	1.54	1.49
850.1	880.1	1.74	1.68	1.64
890.1	920.1	1.92	1.87	1.85
930.1	960.1	2.03	2.01	2.00
970.1	1000.1	2.18	2.17	2.16
990.1	1020.1	2.23	2.23	2.21
1030.1	1060.1	2.33	2.32	2.31
1050.1	1080.1	2.39	2.38	2.36
1090.1	1120.1	2.48	2.47	2.45
1110.1	1140.1	2.52	2.50	2.47
1150.1	1180.1	2.57	2.52	2.49
1170.1	1200.1	2.58	2.54	2.50
1210.1	1240.1	2.56	2.49	2.45
1230.1	1260.1	2.53	2.45	2.40
1270.1	1300.1	2.50	2.42	2.36
1290.1	1320.1	2.46	2.38	2.32
1330.1	1360.1	2.42	2.32	2.25
1350.1	1380.1	2.42	2.32	2.25
1390.1	1420.1	2.37	2.26	2.19
1410.1	1440.1	2.36	2.25	2.18

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+7	+10	+13
10.1	1.63	2.32	3.25
50.1	1.59	2.35	3.28
90.1	1.54	2.24	3.10
130.1	1.57	2.31	3.21
170.1	1.56	2.26	3.11
210.1	1.59	2.30	3.17
250.1	1.61	2.32	3.17
290.1	1.64	2.33	3.17
330.1	1.70	2.42	3.27
370.1	1.72	2.41	3.25
410.1	1.78	2.47	3.30
450.1	1.84	2.55	3.37
490.1	1.88	2.59	3.44
530.1	1.93	2.62	3.45
570.1	1.98	2.62	3.41
610.1	2.08	2.69	3.48
650.1	2.20	2.80	3.54
690.1	2.29	2.94	3.67
730.1	2.32	3.00	3.75
770.1	2.35	3.04	3.80
810.1	2.37	3.05	3.81
850.1	2.40	3.06	3.79
890.1	2.43	3.07	3.78
930.1	2.44	3.04	3.72
970.1	2.47	3.04	3.68
990.1	2.48	3.03	3.66
1030.1	2.51	3.02	3.64
1050.1	2.53	3.03	3.65
1090.1	2.59	3.07	3.67
1110.1	2.63	3.10	3.69
1150.1	2.74	3.17	3.70
1170.1	2.80	3.20	3.71
1210.1	2.92	3.26	3.73
1230.1	2.98	3.30	3.73
1270.1	3.08	3.34	3.72
1290.1	3.13	3.37	3.73
1330.1	3.15	3.38	3.70
1350.1	3.11	3.34	3.64
1390.1	3.05	3.30	3.59
1410.1	3.02	3.27	3.57

IF (OUT) (MHz)	IF VSWR @LO=1010.1MHz (:1)		
	@LO (dBm)		
	+7	+10	+13
10.0	1.89	1.58	1.34
40.0	1.96	1.64	1.38
70.0	1.92	1.61	1.36
100.0	1.88	1.58	1.36
120.0	1.90	1.60	1.37
150.0	1.91	1.62	1.41
170.0	1.91	1.62	1.42
200.0	1.83	1.56	1.38
220.0	1.87	1.60	1.43
250.0	1.87	1.61	1.45
270.0	1.83	1.59	1.47
300.0	1.80	1.57	1.45
320.0	1.79	1.56	1.47
350.0	1.83	1.62	1.52
370.0	1.76	1.55	1.48
400.0	1.75	1.56	1.50
420.0	1.74	1.53	1.47
450.0	1.75	1.57	1.54
470.0	1.72	1.54	1.51
500.0	1.68	1.50	1.48
520.0	1.71	1.53	1.51
550.0	1.68	1.52	1.51
570.0	1.68	1.53	1.53
600.0	1.65	1.47	1.46
620.0	1.66	1.50	1.49
650.0	1.63	1.47	1.47
670.0	1.59	1.43	1.44
700.0	1.61	1.43	1.42
720.0	1.58	1.40	1.40
750.0	1.56	1.39	1.39
770.0	1.54	1.34	1.33
800.0	1.52	1.32	1.30
820.0	1.54	1.33	1.29
850.0	1.49	1.27	1.24
870.0	1.50	1.27	1.23
900.0	1.50	1.24	1.17
920.0	1.48	1.23	1.17
950.0	1.49	1.22	1.12
970.0	1.45	1.17	1.08
1000.0	1.50	1.22	1.08

REV. X2

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101013

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	3	17	9	36	17	30	48	33	40	54
1	-	15	+0	34	12	28	41	42	39	35	46	46
2	87	55	39	54	39	58	44	56	53	54	60	50
3	> 90	66	58	60	57	62	56	67	65	> 73	68	73
4	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
5	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
6	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
7	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
8	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
9	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
10	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 501.00 MHz; -10.00 dBm.
LO IN: 531.01 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -16.55 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	28	22	44	31	43	54	58	50	60
1	-	15	+0	33	12	30	38	45	45	42	62	56
2	66	58	34	56	33	53	38	54	44	53	56	55
3	> 90	47	38	46	40	52	40	50	57	59	55	54
4	> 90	69	34	67	48	> 83	48	56	55	59	64	60
5	> 90	70	68	64	56	58	52	60	53	72	65	78
6	> 90	> 83	75	> 83	78	69	64	66	60	70	70	75
7	> 90	> 83	> 83	> 83	> 83	> 83	69	73	67	75	67	77
8	> 90	78	> 83	> 83	> 83	> 83	80	83	69	77	67	79
9	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	82	> 83
10	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	83	> 83	78	83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 501.00 MHz; .00 dBm.
LO IN: 531.01 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -6.58 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.