

Frequency Mixer

HJK-ED12446/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=380MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
25.1	405.1	12.39	12.43	12.06
40.1	420.1	11.22	10.77	10.34
55.1	435.1	10.89	10.51	10.12
70.1	450.1	10.63	10.25	9.89
85.1	465.1	10.33	9.93	9.56
100.1	480.1	9.72	9.28	8.88
115.1	495.1	9.08	8.62	8.21
130.1	510.1	8.69	8.21	7.85
145.1	525.1	8.45	7.99	7.69
160.1	540.1	8.47	8.06	7.85
175.1	555.1	8.32	8.00	7.84
190.1	570.1	8.19	7.88	7.72
205.1	585.1	8.17	7.82	7.62
220.1	600.1	8.24	7.84	7.60
235.1	615.1	8.46	8.01	7.72
250.1	630.1	8.73	8.29	7.98
265.1	645.1	9.16	8.71	8.34
280.1	660.1	9.47	9.04	8.65
295.1	675.1	9.64	9.21	8.80
310.1	690.1	9.78	9.36	8.95
325.1	705.1	9.83	9.43	9.02
340.1	720.1	9.99	9.61	9.21
355.1	735.1	10.23	9.84	9.46
370.1	750.1	10.46	10.07	9.68
380.1	760.1	10.37	9.97	9.57
395.1	775.1	10.41	10.01	9.59
405.1	785.1	10.42	10.01	9.60
420.1	800.1	10.44	10.05	9.66
430.1	810.1	10.54	10.15	9.78
445.1	825.1	10.72	10.34	10.00
455.1	835.1	10.90	10.54	10.20
470.1	850.1	10.99	10.62	10.29
480.1	860.1	10.96	10.59	10.25
495.1	875.1	10.91	10.53	10.20
505.1	885.1	10.90	10.52	10.19
520.1	900.1	10.89	10.53	10.21
530.1	910.1	10.99	10.63	10.31
545.1	925.1	11.10	10.75	10.45
555.1	935.1	11.11	10.76	10.46
570.1	950.1	11.14	10.78	10.47

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
25.1	405.1	15.53	16.72	20.99
40.1	420.1	21.47	24.54	31.83
55.1	435.1	27.33	32.46	37.13
70.1	450.1	31.33	36.07	40.06
85.1	465.1	33.69	38.51	39.82
100.1	480.1	39.11	35.46	37.02
115.1	495.1	31.49	32.39	33.77
130.1	510.1	30.39	32.13	34.35
145.1	525.1	29.30	31.52	34.96
160.1	540.1	29.60	32.19	38.40
175.1	555.1	30.68	33.57	41.08
190.1	570.1	31.67	34.93	38.37
205.1	585.1	31.09	33.97	39.74
220.1	600.1	29.76	32.48	37.42
235.1	615.1	27.72	30.50	33.86
250.1	630.1	26.28	29.16	32.15
265.1	645.1	25.22	27.89	30.73
280.1	660.1	24.05	26.73	29.37
295.1	675.1	23.26	26.00	28.54
310.1	690.1	22.59	25.30	28.07
325.1	705.1	22.34	24.97	27.66
340.1	720.1	22.08	24.70	27.40
355.1	735.1	21.83	24.51	27.34
370.1	750.1	21.56	24.10	27.02
380.1	760.1	21.46	24.33	26.88
395.1	775.1	21.65	24.23	26.55
405.1	785.1	21.30	23.78	26.01
420.1	800.1	21.03	23.56	25.70
430.1	810.1	20.69	23.20	25.38
445.1	825.1	20.41	22.78	25.03
455.1	835.1	20.48	22.81	25.07
470.1	850.1	20.36	22.40	24.61
480.1	860.1	20.49	22.44	24.62
495.1	875.1	20.83	22.66	24.72
505.1	885.1	20.91	22.59	24.44
520.1	900.1	21.30	22.96	24.70
530.1	910.1	21.53	23.14	24.78
545.1	925.1	21.78	23.32	24.71
555.1	935.1	22.00	23.60	24.88
570.1	950.1	22.33	23.95	25.17

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
25.1	405.1	-0.94	-0.84	-0.34
40.1	420.1	0.18	0.22	0.19
55.1	435.1	0.28	0.16	0.08
70.1	450.1	0.17	0.07	0.04
85.1	465.1	0.10	0.04	0.02
100.1	480.1	0.03	0.01	-0.01
115.1	495.1	0.00	-0.01	-0.02
130.1	510.1	-0.03	-0.03	-0.04
145.1	525.1	-0.06	-0.03	-0.04
160.1	540.1	-0.05	-0.02	-0.02
175.1	555.1	-0.03	-0.01	-0.01
190.1	570.1	-0.02	-0.01	-0.02
205.1	585.1	-0.02	-0.02	-0.02
220.1	600.1	-0.05	-0.05	-0.04
235.1	615.1	-0.07	-0.06	-0.05
250.1	630.1	-0.05	-0.06	-0.04
265.1	645.1	-0.03	-0.07	-0.06
280.1	660.1	0.03	-0.07	-0.06
295.1	675.1	0.11	-0.05	-0.05
310.1	690.1	0.18	-0.03	-0.05
325.1	705.1	0.27	0.02	-0.03
340.1	720.1	0.37	0.07	0.00
355.1	735.1	0.49	0.15	0.03
370.1	750.1	0.62	0.25	0.07
380.1	760.1	0.77	0.32	0.12
395.1	775.1	1.03	0.36	0.11
405.1	785.1	1.19	0.35	0.08
420.1	800.1	0.89	0.32	0.09
430.1	810.1	0.74	0.32	0.10
445.1	825.1	0.70	0.36	0.13
455.1	835.1	0.70	0.38	0.15
470.1	850.1	0.69	0.40	0.19
480.1	860.1	0.71	0.42	0.21
495.1	875.1	0.70	0.41	0.22
505.1	885.1	0.68	0.40	0.22
520.1	900.1	0.69	0.40	0.22
530.1	910.1	0.66	0.38	0.21
545.1	925.1	0.64	0.36	0.21
555.1	935.1	0.65	0.36	0.21
570.1	950.1	0.63	0.35	0.20

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=170MHz (dB)
		@LO (dBm)
		+17
90.0	80.0	11.65
82.0	88.0	11.20
74.0	96.0	10.44
66.0	104.0	9.85
58.0	112.0	9.28
54.0	116.0	9.02
50.0	120.0	8.80
46.0	124.0	8.56
42.0	128.0	8.37
38.0	132.0	8.27
34.0	136.0	8.17
30.0	140.0	8.02
26.0	144.0	7.91
22.0	148.0	7.87
18.0	152.0	7.89
14.0	156.0	7.84
10.0	160.0	7.91
20.1	190.1	7.48
40.1	210.1	7.26
60.1	230.1	7.37
80.1	250.1	7.50
100.1	270.1	7.51
120.1	290.1	7.46
140.1	310.1	7.49
160.1	330.1	7.60
180.1	350.1	7.78
200.1	370.1	8.16
220.1	390.1	8.59
240.1	410.1	10.13
260.1	430.1	8.96
280.1	450.1	8.66
300.1	470.1	8.46
320.1	490.1	8.27
340.1	510.1	8.15
360.1	530.1	8.06
380.1	550.1	8.02
420.1	590.1	8.43
460.1	630.1	9.15
500.1	670.1	10.08
540.1	710.1	10.98

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=140MHz (dB)
		@LO (dBm)
		+17
10.0	150.0	8.10
30.0	170.0	7.93
50.0	190.0	7.76
70.0	210.0	7.55
90.0	230.0	7.69
110.0	250.0	7.83
130.0	270.0	7.97
150.0	290.0	7.89
170.0	310.0	7.89
190.0	330.0	8.07
210.0	350.0	8.35
230.0	370.0	8.62
250.0	390.0	9.04
270.0	410.0	10.46
290.0	430.0	9.33
310.0	450.0	9.04
330.0	470.0	8.75
350.0	490.0	8.55
370.0	510.0	8.30
390.0	530.0	8.17
410.0	550.0	8.05
430.0	570.0	8.18
450.0	590.0	8.45
470.0	610.0	8.79
490.0	630.0	9.31
510.0	650.0	9.74
530.0	670.0	10.25
550.0	690.0	10.73
570.0	710.0	11.24
590.0	730.0	11.69
610.0	750.0	12.18
630.0	770.0	12.69
650.0	790.0	13.27
670.0	810.0	13.91
690.0	830.0	14.50
710.0	850.0	15.08
730.0	870.0	15.71
750.0	890.0	16.59
770.0	910.0	17.42
810.0	950.0	19.24

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=200MHz (dB)
		@LO (dBm)
		+17
110.0	90.1	11.69
102.0	98.1	10.93
98.0	102.1	10.91
94.0	106.1	10.47
90.0	110.1	10.11
86.0	114.1	9.81
82.0	118.1	9.58
78.0	122.1	9.29
74.0	126.1	9.03
70.0	130.1	8.85
68.0	132.1	8.80
66.0	134.1	8.72
64.0	136.1	8.67
62.0	138.1	8.61
60.0	140.1	8.53
58.0	142.1	8.50
56.0	144.1	8.42
54.0	146.1	8.40
52.0	148.1	8.35
50.0	150.1	8.32
48.0	152.1	8.31
46.0	154.1	8.28
44.0	156.1	8.24
42.0	158.1	8.18
40.0	160.1	8.15
38.0	162.1	8.14
36.0	164.1	8.12
34.0	166.1	8.09
32.0	168.1	8.07
30.0	170.1	8.07
28.0	172.1	8.04
26.0	174.1	8.00
24.0	176.1	7.99
22.0	178.1	7.93
20.0	180.1	7.93
18.0	182.1	7.84
16.0	184.1	7.93
14.0	186.1	7.81
12.0	188.1	7.82
10.0	190.1	7.84

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Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
405.1	40.86	41.75	42.77	50.79	51.08	50.88
420.1	40.82	40.86	41.00	57.08	54.72	52.63
435.1	40.40	40.43	40.59	59.14	56.25	53.93
450.1	40.48	40.51	40.69	60.94	57.58	55.01
465.1	40.39	40.33	40.43	58.41	58.38	56.94
480.1	40.58	40.64	40.91	52.69	53.84	54.57
495.1	40.78	40.74	40.75	47.92	48.89	48.78
510.1	40.48	40.28	39.55	44.16	45.02	45.35
525.1	41.55	41.19	39.54	41.61	42.40	43.84
540.1	43.06	42.33	39.45	39.64	40.60	42.71
555.1	45.96	44.27	40.48	38.31	39.43	41.66
570.1	46.45	44.17	40.60	37.33	38.54	40.74
585.1	46.84	44.67	40.98	36.63	37.80	40.02
600.1	47.10	45.20	41.50	36.25	37.44	39.56
615.1	47.28	45.68	42.64	36.18	37.30	39.21
630.1	46.76	45.44	43.33	36.20	37.26	38.74
645.1	46.21	45.26	44.18	36.31	37.29	38.27
660.1	45.63	45.00	44.41	36.52	37.35	38.15
675.1	44.68	44.35	43.87	36.73	37.43	38.11
690.1	44.19	44.32	44.02	37.01	37.65	38.24
705.1	43.13	43.36	43.09	37.25	37.81	38.33
720.1	43.20	43.68	43.66	37.54	38.05	38.52
735.1	43.01	43.39	43.34	37.94	38.36	38.82
750.1	43.28	43.86	43.97	38.25	38.69	39.02
760.1	43.35	44.01	44.30	38.41	38.81	39.13
775.1	41.95	42.37	42.51	38.59	38.93	39.19
785.1	41.66	42.09	42.44	38.57	38.88	39.09
800.1	41.01	41.43	41.83	38.59	38.86	39.04
810.1	40.58	41.01	41.39	38.59	38.83	38.95
825.1	40.99	41.67	42.18	38.58	38.78	38.90
835.1	40.65	41.38	41.83	38.60	38.80	38.91
850.1	40.56	41.37	41.84	38.66	38.76	38.87
860.1	40.62	41.52	41.98	38.68	38.81	38.88
875.1	39.94	40.78	41.17	38.67	38.79	38.85
885.1	40.03	40.89	41.34	38.64	38.73	38.79
900.1	40.24	41.19	41.72	38.59	38.66	38.75
910.1	39.98	40.89	41.37	38.59	38.64	38.67
925.1	40.12	41.10	41.63	38.53	38.57	38.62
935.1	39.97	40.98	41.47	38.48	38.51	38.55
950.1	39.63	40.49	40.94	38.43	38.43	38.48

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
25.1	405.1	41.66	48.61	36.75
40.1	420.1	32.42	34.05	34.60
55.1	435.1	31.80	34.86	36.83
70.1	450.1	32.19	35.69	38.16
85.1	465.1	32.18	35.96	38.87
100.1	480.1	32.56	37.36	41.67
115.1	495.1	32.74	37.75	43.60
130.1	510.1	33.86	39.90	59.65
145.1	525.1	35.14	42.03	51.39
160.1	540.1	36.98	46.65	48.63
175.1	555.1	39.75	51.29	44.00
190.1	570.1	40.89	51.77	42.38
205.1	585.1	42.30	49.66	42.11
220.1	600.1	42.27	48.70	43.54
235.1	615.1	42.35	50.51	43.55
250.1	630.1	41.64	48.42	48.37
265.1	645.1	40.27	47.06	56.33
280.1	660.1	41.35	48.33	52.87
295.1	675.1	41.48	46.85	49.92
310.1	690.1	41.68	46.42	49.47
325.1	705.1	42.88	48.78	54.42
340.1	720.1	41.78	46.33	49.35
355.1	735.1	41.51	46.00	45.94
370.1	750.1	41.40	45.99	46.16
380.1	760.1	40.16	43.06	42.47
395.1	775.1	38.37	39.15	38.42
405.1	785.1	37.55	38.44	38.40
420.1	800.1	35.89	36.70	36.58
430.1	810.1	36.12	37.63	37.58
445.1	825.1	38.07	41.37	41.39
455.1	835.1	37.89	41.26	40.44
470.1	850.1	38.55	42.42	40.82
480.1	860.1	39.73	44.78	43.65
495.1	875.1	39.28	43.20	41.79
505.1	885.1	38.98	41.82	39.73
520.1	900.1	40.77	45.42	44.74
530.1	910.1	40.43	44.53	43.86
545.1	925.1	39.44	42.19	41.10
555.1	935.1	39.89	43.13	42.91
570.1	950.1	38.73	40.99	40.54

Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=580.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
25.1	405.1	2.33	2.68	3.60	405.1	22.87	22.87	23.18	10.0	1.96	2.13	2.26
40.1	420.1	3.33	4.13	5.03	420.1	23.18	23.18	22.58	20.0	1.98	2.15	2.28
55.1	435.1	3.35	3.95	4.59	435.1	22.00	21.73	21.46	30.0	1.98	2.14	2.27
70.1	450.1	3.18	3.66	4.14	450.1	17.39	17.22	16.89	40.0	1.99	2.15	2.27
85.1	465.1	2.99	3.41	3.80	465.1	14.62	14.26	13.92	50.0	2.01	2.17	2.29
100.1	480.1	2.80	3.15	3.46	480.1	11.38	11.09	10.50	60.0	2.04	2.18	2.29
115.1	495.1	2.62	2.93	3.22	495.1	8.64	8.39	6.76	80.0	2.04	2.16	2.25
130.1	510.1	2.49	2.82	3.10	510.1	6.39	6.15	4.10	90.0	2.10	2.21	2.30
145.1	525.1	2.35	2.67	2.94	525.1	4.51	4.14	2.60	110.0	2.20	2.28	2.35
160.1	540.1	2.28	2.60	2.86	540.1	3.14	2.68	1.72	120.0	2.22	2.28	2.34
175.1	555.1	2.29	2.57	2.79	555.1	2.33	1.82	1.18	140.0	2.35	2.38	2.42
190.1	570.1	2.31	2.57	2.77	570.1	2.16	1.78	1.24	150.0	2.36	2.37	2.40
205.1	585.1	2.27	2.53	2.73	585.1	2.59	2.42	1.78	170.0	2.47	2.44	2.45
220.1	600.1	2.23	2.49	2.68	600.1	3.45	3.47	2.56	180.0	2.54	2.48	2.47
235.1	615.1	2.27	2.52	2.69	615.1	4.64	4.78	3.67	200.0	2.75	2.67	2.63
250.1	630.1	2.35	2.58	2.76	630.1	6.15	6.37	5.34	210.0	2.83	2.73	2.68
265.1	645.1	2.42	2.64	2.82	645.1	7.70	7.94	7.50	230.0	2.93	2.80	2.73
280.1	660.1	2.53	2.75	2.94	660.1	9.43	9.69	9.74	240.0	3.02	2.87	2.78
295.1	675.1	2.62	2.84	3.06	675.1	11.24	11.46	11.61	260.0	3.25	3.07	2.95
310.1	690.1	2.76	2.98	3.21	690.1	12.80	12.99	12.99	270.0	3.40	3.21	3.08
325.1	705.1	2.87	3.11	3.37	705.1	14.87	14.87	14.87	290.0	3.58	3.37	3.22
340.1	720.1	2.92	3.16	3.42	720.1	16.26	16.26	16.26	300.0	3.71	3.48	3.33
355.1	735.1	2.93	3.17	3.42	735.1	17.93	17.93	17.93	320.0	3.93	3.67	3.50
370.1	750.1	2.94	3.18	3.44	750.1	19.54	19.54	19.32	330.0	4.09	3.83	3.65
380.1	760.1	2.98	3.23	3.48	760.1	20.22	19.98	19.98	350.0	4.32	4.03	3.83
395.1	775.1	3.00	3.26	3.51	775.1	21.46	21.20	20.70	360.0	4.52	4.23	4.01
405.1	785.1	3.02	3.29	3.56	785.1	22.58	22.29	21.73	380.0	4.67	4.37	4.15
420.1	800.1	3.02	3.30	3.56	800.1	23.18	22.87	22.29	390.0	4.89	4.59	4.36
430.1	810.1	3.04	3.33	3.60	810.1	24.14	24.14	23.49	410.0	5.06	4.73	4.50
445.1	825.1	3.05	3.35	3.64	825.1	26.33	26.33	25.94	420.0	5.23	4.91	4.67
455.1	835.1	3.03	3.34	3.62	835.1	26.33	26.33	25.94	440.0	5.42	5.07	4.83
470.1	850.1	2.98	3.29	3.57	850.1	26.74	26.74	26.33	450.0	5.59	5.25	5.00
480.1	860.1	2.96	3.27	3.55	860.1	27.59	27.16	26.74	470.0	5.77	5.42	5.19
495.1	875.1	2.93	3.24	3.51	875.1	27.59	27.16	26.33	480.0	5.95	5.59	5.36
505.1	885.1	2.92	3.21	3.48	885.1	27.59	27.16	26.33	500.0	6.19	5.83	5.61
520.1	900.1	2.88	3.17	3.44	900.1	28.96	28.49	27.59	510.0	6.30	5.97	5.75
530.1	910.1	2.84	3.13	3.39	910.1	29.46	28.96	28.49	530.0	6.73	6.44	6.24
545.1	925.1	2.78	3.06	3.31	925.1	28.96	28.96	28.49	540.0	6.91	6.63	6.46
555.1	935.1	2.75	3.01	3.26	935.1	29.46	29.46	28.96	560.0	7.34	7.14	7.02
570.1	950.1	2.69	2.94	3.18	950.1	29.46	28.96	28.49	570.0	7.31	7.14	7.08

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	32	29	22	22	47	29	46	44	28
1	-	39	+0	54	23	51	23	48	29	53	39	58
2	66	57	67	67	>82	66	72	66	75	63	79	71
3	>90	>82	73	>82	>82	>82	76	>82	78	>82	77	>82
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	80	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 170 MHz; 0.00 dBm.
LO IN: 550 MHz; +17.00 dBm
IF OUT: 380 MHz; -8.2 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	43	39	32	32	70	39	50	54	39
1	-	40	+0	54	23	51	23	48	30	53	37	59
2	46	47	60	57	80	56	65	56	69	53	74	61
3	65	78	53	79	76	76	57	79	60	79	59	>92
4	>90	>92	79	>92	>92	>92	87	88	87	>92	87	>92
5	>90	>92	78	>92	88	>92	85	>92	82	>92	86	>92
6	>90	>92	86	>92	>92	>92	>92	>92	>92	>92	>92	>92
7	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 170 MHz; 10.00 dBm.
LO IN: 550 MHz; +17.00 dBm
IF OUT: 380 MHz; 1.85 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.