

Frequency Mixer

HJK-ED12908/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=130MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	140.1	7.61	7.56	7.55
20.1	150.1	7.53	7.47	7.46
30.1	160.1	7.49	7.41	7.39
40.1	170.1	7.47	7.41	7.35
50.1	180.1	7.51	7.44	7.39
60.1	190.1	7.63	7.55	7.50
70.1	200.1	7.75	7.67	7.62
80.1	210.1	7.85	7.78	7.74
90.1	220.1	7.88	7.81	7.77
100.1	230.1	7.85	7.78	7.73
110.1	240.1	7.82	7.73	7.67
120.1	250.1	7.79	7.70	7.64
130.1	260.1	7.75	7.65	7.57
140.1	270.1	7.75	7.65	7.58
150.1	280.1	7.81	7.70	7.62
160.1	290.1	7.86	7.75	7.67
170.1	300.1	7.95	7.83	7.76
180.1	310.1	8.05	7.93	7.85
190.1	320.1	8.06	7.93	7.85
200.1	330.1	8.11	7.99	7.90
210.1	340.1	8.15	8.02	7.93
225.1	355.1	8.12	7.97	7.86
235.1	365.1	8.24	8.06	7.94
250.1	380.1	8.71	8.44	8.22
260.1	390.1	9.11	8.88	8.72
275.1	405.1	9.24	9.05	8.95
285.1	415.1	9.28	9.10	9.00
300.1	430.1	9.12	8.90	8.78
310.1	440.1	9.17	8.97	8.86
325.1	455.1	9.16	8.95	8.82
335.1	465.1	9.25	9.03	8.91
350.1	480.1	9.36	9.11	8.99
360.1	490.1	9.44	9.19	9.05
375.1	505.1	9.58	9.26	9.09
385.1	515.1	9.65	9.30	9.10
400.1	530.1	9.81	9.41	9.15
410.1	540.1	9.92	9.48	9.20
425.1	555.1	10.28	9.81	9.52
435.1	565.1	10.46	9.99	9.67
450.1	580.1	10.91	10.39	10.03

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	140.1	31.47	32.91	34.52
20.1	150.1	31.50	32.45	32.57
30.1	160.1	30.85	30.66	30.39
40.1	170.1	28.96	29.49	30.94
50.1	180.1	27.28	28.19	30.44
60.1	190.1	26.28	27.89	29.55
70.1	200.1	27.97	30.43	32.33
80.1	210.1	28.18	31.05	31.83
90.1	220.1	28.63	30.90	31.41
100.1	230.1	28.51	30.11	30.77
110.1	240.1	28.04	29.02	29.45
120.1	250.1	27.26	28.36	28.56
130.1	260.1	26.86	27.63	27.89
140.1	270.1	26.32	27.36	27.41
150.1	280.1	25.72	26.95	27.71
160.1	290.1	25.51	26.75	28.76
170.1	300.1	25.16	27.00	29.93
180.1	310.1	24.67	26.93	30.95
190.1	320.1	24.21	27.52	31.06
200.1	330.1	23.48	26.78	30.64
210.1	340.1	22.32	25.26	28.29
225.1	355.1	19.92	22.43	25.07
235.1	365.1	17.88	19.51	21.60
250.1	380.1	17.49	18.12	18.62
260.1	390.1	18.53	19.78	21.06
275.1	405.1	19.22	20.98	22.88
285.1	415.1	19.43	21.53	23.74
300.1	430.1	19.62	22.09	24.07
310.1	440.1	19.62	22.06	24.26
325.1	455.1	19.46	22.24	24.56
335.1	465.1	19.25	22.22	24.56
350.1	480.1	18.78	21.74	24.49
360.1	490.1	18.67	21.53	24.46
375.1	505.1	17.87	20.50	23.45
385.1	515.1	17.57	19.90	22.91
400.1	530.1	17.01	18.91	21.54
410.1	540.1	16.79	18.51	20.78
425.1	555.1	16.68	18.32	19.99
435.1	565.1	16.55	18.29	19.64
450.1	580.1	16.30	18.35	19.98

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+16dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	140.1	0.26	0.09	0.11
20.1	150.1	0.24	0.12	0.10
30.1	160.1	0.26	0.14	0.09
40.1	170.1	0.30	0.15	0.10
50.1	180.1	0.39	0.18	0.11
60.1	190.1	0.45	0.24	0.16
70.1	200.1	0.43	0.26	0.17
80.1	210.1	0.44	0.25	0.15
90.1	220.1	0.44	0.24	0.13
100.1	230.1	0.45	0.24	0.13
110.1	240.1	0.49	0.25	0.14
120.1	250.1	0.54	0.26	0.15
130.1	260.1	0.81	0.31	0.17
140.1	270.1	0.90	0.35	0.20
150.1	280.1	1.02	0.38	0.20
160.1	290.1	1.16	0.40	0.22
170.1	300.1	1.30	0.44	0.23
180.1	310.1	1.36	0.42	0.23
190.1	320.1	1.62	0.47	0.23
200.1	330.1	1.86	0.58	0.22
210.1	340.1	2.19	0.72	0.20
225.1	355.1	2.79	1.24	0.42
235.1	365.1	2.93	1.61	0.77
250.1	380.1	2.70	1.78	1.28
260.1	390.1	2.46	1.62	1.18
275.1	405.1	2.28	1.49	1.03
285.1	415.1	2.36	1.49	0.95
300.1	430.1	2.71	1.58	0.91
310.1	440.1	2.83	1.68	0.94
325.1	455.1	3.00	1.78	0.95
335.1	465.1	3.09	1.82	1.00
350.1	480.1	3.14	1.85	1.04
360.1	490.1	3.14	1.91	1.08
375.1	505.1	3.32	2.07	1.26
385.1	515.1	3.45	2.21	1.39
400.1	530.1	3.73	2.40	1.58
410.1	540.1	3.85	2.52	1.72
425.1	555.1	3.88	2.51	1.74
435.1	565.1	3.83	2.51	1.75
450.1	580.1	3.91	2.57	1.81

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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)=160.1MHz (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)=300MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
150.1	10.0	7.60	10.1	20.1	9.91	290.0	10.0	7.69
146.5	13.6	7.62	25.0	35.0	8.71	282.8	17.2	7.69
142.9	17.2	7.64	39.8	49.8	8.34	275.6	24.4	7.70
139.3	20.8	7.65	54.7	64.7	8.00	268.5	31.5	7.72
135.7	24.4	7.66	69.6	79.6	7.89	261.3	38.7	7.72
132.2	27.9	7.67	84.5	94.5	7.80	254.1	45.9	7.74
128.6	31.5	7.68	99.3	109.3	7.69	246.9	53.1	7.75
125.0	35.1	7.70	114.2	124.2	7.63	239.7	60.3	7.73
121.4	38.7	7.72	129.1	139.1	7.57	232.6	67.4	7.75
117.8	42.3	7.73	143.9	153.9	7.57	225.4	74.6	7.79
114.2	45.9	7.76	158.8	168.8	7.48	218.2	81.8	7.77
110.6	49.5	7.75	173.7	183.7	7.47	211.0	89.0	7.79
107.0	53.1	7.77	188.6	198.6	7.47	203.8	96.2	7.81
103.4	56.7	7.76	203.4	213.4	7.51	196.7	103.3	7.81
99.8	60.3	7.80	218.3	228.3	7.48	189.5	110.5	7.82
96.3	63.8	7.82	233.2	243.2	7.47	182.3	117.7	7.88
92.7	67.4	7.81	248.0	258.0	7.46	175.1	124.9	7.86
89.1	71.0	7.85	262.9	272.9	7.42	167.9	132.1	7.88
85.5	74.6	7.90	277.8	287.8	7.40	160.8	139.2	7.86
81.9	78.2	7.92	292.7	302.7	7.31	153.6	146.4	7.91
78.3	81.8	7.90	307.5	317.5	7.38	146.4	153.6	7.93
74.7	85.4	7.96	322.4	332.4	7.33	139.2	160.8	7.99
71.1	89.0	8.01	337.3	347.3	7.33	132.1	167.9	8.01
67.5	92.6	8.02	352.2	362.2	7.41	124.9	175.1	8.06
63.9	96.2	8.01	367.0	377.0	7.78	117.7	182.3	8.09
60.4	99.7	8.08	381.9	391.9	8.59	110.5	189.5	8.13
56.8	103.3	8.13	396.8	406.8	8.96	103.3	196.7	8.13
53.2	106.9	8.15	411.6	421.6	8.85	96.2	203.8	8.16
49.6	110.5	8.17	426.5	436.5	8.92	89.0	211.0	8.17
46.0	114.1	8.27	441.4	451.4	8.88	81.8	218.2	8.22
42.4	117.7	8.34	456.3	466.3	8.85	74.6	225.4	8.25
38.8	121.3	8.40	471.1	481.1	8.93	67.4	232.6	8.32
35.2	124.9	8.46	486.0	496.0	8.88	60.3	239.7	8.39
31.6	128.5	8.59	500.9	510.9	8.90	53.1	246.9	8.49
28.0	132.1	8.71	515.7	525.7	8.95	45.9	254.1	8.59
24.5	135.6	8.76	530.6	540.6	9.14	38.7	261.3	8.74
20.9	139.2	8.89	545.5	555.5	9.27	31.5	268.5	8.90
17.3	142.8	9.11	560.4	570.4	9.48	24.4	275.6	9.10
13.7	146.4	9.40	575.2	585.2	9.86	17.2	282.8	9.45
10.1	150.0	9.93	590.1	600.1	10.25	10.0	290.0	10.29

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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
140.1	43.49	43.44	43.91	57.83	58.08	58.42
150.1	42.94	42.99	43.46	57.38	57.69	57.94
160.1	42.10	42.22	42.42	57.08	57.42	57.70
170.1	41.59	41.65	41.68	57.11	57.38	57.51
180.1	41.01	40.89	40.95	57.56	57.76	58.09
190.1	40.56	40.43	40.49	60.07	60.86	61.61
200.1	40.93	40.79	40.86	63.39	65.03	66.47
210.1	41.08	41.12	41.27	61.75	62.80	63.70
220.1	40.98	41.06	41.09	60.77	61.79	62.46
230.1	40.85	40.95	41.05	60.52	61.47	62.26
240.1	40.50	40.61	40.72	60.16	60.91	61.51
250.1	40.19	40.31	40.37	59.90	60.64	61.13
260.1	40.06	40.09	40.22	60.55	61.31	61.99
270.1	39.61	39.64	39.77	60.32	60.93	61.67
280.1	39.18	39.18	39.27	59.40	59.78	60.29
290.1	38.92	38.78	38.81	60.03	60.10	60.56
300.1	38.58	38.52	38.38	60.59	60.72	61.10
310.1	38.12	38.01	38.05	59.87	59.85	60.12
320.1	37.82	37.61	37.58	59.29	58.81	58.75
330.1	37.19	37.08	36.98	58.50	57.85	57.44
340.1	37.10	36.85	36.76	57.62	56.68	56.29
355.1	36.55	36.27	36.18	55.98	55.00	54.45
365.1	36.16	35.97	35.78	53.70	52.97	52.32
380.1	36.65	36.29	35.96	49.89	49.47	49.22
390.1	38.28	38.23	38.30	48.30	47.61	47.16
405.1	40.62	40.86	41.08	47.91	47.29	46.81
415.1	41.24	41.46	41.60	48.20	47.67	47.23
430.1	41.39	41.30	41.37	48.96	48.27	47.86
440.1	41.46	41.53	41.61	49.31	48.73	48.33
455.1	41.25	41.31	41.26	49.92	49.43	48.99
465.1	41.19	41.16	41.17	50.32	49.80	49.43
480.1	40.82	40.63	40.65	50.42	49.72	49.36
490.1	40.66	40.60	40.54	50.57	50.08	49.70
505.1	40.29	40.08	40.03	50.80	50.20	49.86
515.1	39.98	39.86	39.72	50.63	50.12	49.69
530.1	39.83	39.65	39.49	50.67	50.10	49.65
540.1	39.38	39.17	39.01	50.62	50.04	49.61
555.1	39.22	38.92	38.78	50.43	49.72	49.30
565.1	38.72	38.48	38.24	50.36	49.78	49.35
580.1	38.27	37.96	37.59	50.32	49.67	49.01

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	140.1	69.39	63.10	57.06
20.1	150.1	60.25	57.73	53.13
30.1	160.1	59.86	60.20	59.35
40.1	170.1	57.29	56.86	56.69
50.1	180.1	54.79	53.85	53.18
60.1	190.1	52.96	52.40	51.54
70.1	200.1	50.23	50.06	49.85
80.1	210.1	51.51	51.58	51.68
90.1	220.1	51.62	51.36	50.62
100.1	230.1	51.29	51.11	50.99
110.1	240.1	50.64	50.74	50.81
120.1	250.1	50.21	50.30	50.30
130.1	260.1	48.91	49.06	48.72
140.1	270.1	46.58	46.56	46.87
150.1	280.1	45.12	45.07	45.41
160.1	290.1	44.81	44.61	44.76
170.1	300.1	43.63	43.45	43.24
180.1	310.1	42.79	42.28	41.99
190.1	320.1	42.15	41.54	41.14
200.1	330.1	41.65	40.81	40.68
210.1	340.1	40.47	39.69	39.46
225.1	355.1	39.11	38.49	38.31
235.1	365.1	38.95	38.58	38.61
250.1	380.1	38.10	36.89	36.25
260.1	390.1	37.51	35.94	34.65
275.1	405.1	39.60	39.73	40.14
285.1	415.1	40.37	40.51	40.48
300.1	430.1	40.38	40.19	39.99
310.1	440.1	40.12	39.70	39.23
325.1	455.1	39.69	39.23	38.58
335.1	465.1	38.93	38.61	38.15
350.1	480.1	38.42	37.93	37.35
360.1	490.1	37.97	37.57	37.06
375.1	505.1	36.45	36.28	35.98
385.1	515.1	36.28	36.07	35.74
400.1	530.1	34.71	34.65	34.53
410.1	540.1	33.29	33.04	32.98
425.1	555.1	32.13	31.51	31.36
435.1	565.1	30.90	30.00	29.73
450.1	580.1	29.57	28.09	27.47

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=300MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	140.1	1.50	1.53	1.55	140.1	2.81	2.80	2.30	10.0	3.41	3.41	3.41
20.1	150.1	1.47	1.53	1.49	150.1	2.73	2.73	2.37	15.0	2.88	2.89	2.90
30.1	160.1	1.48	1.49	1.53	160.1	2.67	2.67	2.49	20.0	2.63	2.64	2.66
40.1	170.1	1.47	1.48	1.50	170.1	2.62	2.61	2.56	25.0	2.44	2.45	2.47
50.1	180.1	1.45	1.47	1.50	180.1	2.58	2.57	2.55	30.0	2.31	2.32	2.33
60.1	190.1	1.48	1.49	1.51	190.1	2.55	2.55	2.53	35.0	2.25	2.26	2.27
70.1	200.1	1.53	1.57	1.60	200.1	2.54	2.54	2.52	40.0	2.23	2.25	2.26
80.1	210.1	1.57	1.60	1.64	210.1	2.55	2.54	2.53	45.0	2.21	2.23	2.25
90.1	220.1	1.56	1.60	1.63	220.1	2.57	2.56	2.55	50.0	2.15	2.17	2.18
100.1	230.1	1.55	1.59	1.62	230.1	2.59	2.59	2.58	55.0	2.08	2.09	2.11
110.1	240.1	1.54	1.57	1.60	240.1	2.63	2.62	2.61	60.0	2.04	2.05	2.06
120.1	250.1	1.53	1.56	1.59	250.1	2.67	2.67	2.66	65.0	2.03	2.04	2.06
130.1	260.1	1.53	1.56	1.59	260.1	2.72	2.71	2.71	70.0	2.04	2.06	2.07
140.1	270.1	1.54	1.56	1.58	270.1	2.77	2.77	2.75	75.0	2.02	2.03	2.05
150.1	280.1	1.54	1.57	1.59	280.1	2.82	2.82	2.81	85.0	1.90	1.92	1.93
160.1	290.1	1.56	1.58	1.59	290.1	2.88	2.88	2.87	90.0	1.90	1.92	1.93
170.1	300.1	1.57	1.58	1.60	300.1	2.94	2.94	2.93	100.0	1.96	1.98	2.00
180.1	310.1	1.58	1.59	1.60	310.1	3.00	3.00	2.99	105.0	1.94	1.96	1.98
190.1	320.1	1.59	1.60	1.61	320.1	3.07	3.07	3.06	115.0	1.86	1.87	1.89
200.1	330.1	1.60	1.61	1.61	330.1	3.14	3.14	3.13	120.0	1.88	1.89	1.91
210.1	340.1	1.62	1.62	1.63	340.1	3.20	3.20	3.19	130.0	1.93	1.95	1.97
225.1	355.1	1.66	1.67	1.67	355.1	3.29	3.29	3.27	135.0	1.89	1.91	1.93
235.1	365.1	1.69	1.70	1.70	365.1	3.34	3.33	3.32	145.0	1.83	1.84	1.86
250.1	380.1	1.76	1.76	1.76	380.1	3.40	3.39	3.37	150.0	1.89	1.86	1.94
260.1	390.1	1.88	1.92	1.96	390.1	3.47	3.45	3.43	160.0	1.90	1.92	1.95
275.1	405.1	2.04	2.11	2.19	405.1	3.58	3.56	3.54	165.0	1.85	1.87	1.89
285.1	415.1	2.08	2.15	2.23	415.1	3.67	3.65	3.63	175.0	1.83	1.85	1.87
300.1	430.1	2.08	2.14	2.20	430.1	3.80	3.79	3.77	180.0	1.89	1.91	1.93
310.1	440.1	2.09	2.16	2.22	440.1	3.89	3.88	3.86	190.0	1.90	1.92	1.94
325.1	455.1	2.10	2.16	2.23	455.1	4.01	3.99	3.96	195.0	1.85	1.87	1.89
335.1	465.1	2.10	2.16	2.22	465.1	4.08	4.06	4.03	205.0	1.86	1.88	1.90
350.1	480.1	2.12	2.18	2.24	480.1	4.19	4.17	4.14	210.0	1.91	1.94	1.96
360.1	490.1	2.12	2.18	2.24	490.1	4.26	4.25	4.22	220.0	1.89	1.91	1.94
375.1	505.1	2.13	2.18	2.23	505.1	4.36	4.35	4.32	225.0	1.85	1.87	1.89
385.1	515.1	2.12	2.17	2.22	515.1	4.42	4.41	4.38	235.0	1.90	1.92	1.94
400.1	530.1	2.13	2.18	2.22	530.1	4.51	4.50	4.46	240.0	1.94	1.97	1.99
410.1	540.1	2.13	2.17	2.22	540.1	4.56	4.54	4.51	250.0	1.89	1.91	1.93
425.1	555.1	2.15	2.20	2.25	555.1	4.63	4.61	4.57	255.0	1.86	1.88	1.90
435.1	565.1	2.15	2.20	2.25	565.1	4.68	4.66	4.62	265.0	1.94	1.97	1.99
450.1	580.1	2.15	2.19	2.23	580.1	4.73	4.72	4.68	270.0	1.98	2.01	2.03

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	36	23	26	30	40	37	52	43	50	44
1	-	37	+0	50	10	55	17	55	22	56	26	55
2	63	57	77	54	78	55	62	52	59	63	58	57
3	>90	67	51	68	52	69	49	74	46	72	47	68
4	>90	>83	80	>83	81	>83	>83	80	81	>83	77	77
5	>90	>83	77	80	>83	80	79	>83	75	>83	72	>83
6	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>90	>83	83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 155 MHz; 1.00 dBm.
LO IN: 285 MHz; +17.00 dBm
IF OUT: 130 MHz; -6.8 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	41	34	39	48	49	46	57	55	66	57
1	-	37	+0	47	12	48	20	47	27	49	34	59
2	43	53	61	46	65	49	63	50	59	59	57	58
3	63	48	38	49	34	51	32	77	33	69	36	61
4	>90	63	63	62	62	65	72	62	70	61	65	65
5	>90	68	48	66	47	68	51	73	48	68	45	65
6	>90	78	75	68	>93	67	90	74	76	84	73	87
7	>90	79	63	79	63	78	62	78	66	73	68	73
8	>90	78	83	76	82	75	85	74	89	73	85	75
9	>90	93	80	84	75	80	72	81	68	84	70	81
10	>90	88	87	82	85	81	87	82	91	80	88	80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 155 MHz; 11.00 dBm.
LO IN: 285 MHz; +17.00 dBm
IF OUT: 130 MHz; 3.07 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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