

Frequency Mixer

HJK-ED12140/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=16.9MHz (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
10.10	27.00	6.88	6.29	6.04	10.10	27.00	11.94	15.07	16.93	10.10	27.00	6.80	5.08	3.07
50.10	67.00	6.01	5.77	5.60	50.10	67.00	17.12	19.53	22.25	50.10	67.00	2.53	1.41	0.76
90.10	107.00	6.33	6.25	6.16	90.10	107.00	21.77	24.68	26.95	90.10	107.00	0.99	0.55	0.32
130.10	147.00	6.14	6.08	6.01	130.10	147.00	23.45	25.96	28.66	130.10	147.00	0.65	0.34	0.18
170.10	187.00	5.90	5.84	5.78	170.10	187.00	23.69	26.53	30.98	170.10	187.00	0.46	0.19	0.10
210.10	227.00	5.74	5.67	5.61	210.10	227.00	24.20	27.83	32.05	210.10	227.00	0.27	0.09	0.05
250.10	267.00	5.62	5.55	5.49	250.10	267.00	25.33	29.71	33.62	250.10	267.00	0.31	0.11	0.05
290.10	307.00	5.99	5.89	5.82	290.10	307.00	24.45	24.81	26.03	290.10	307.00	0.45	0.18	0.13
330.10	347.00	6.62	6.49	6.43	330.10	347.00	28.78	27.87	27.36	330.10	347.00	0.53	0.15	0.07
370.10	387.00	8.39	8.29	8.24	370.10	387.00	19.06	23.39	27.14	370.10	387.00	0.74	0.42	0.16
410.10	427.00	7.59	7.49	7.42	410.10	427.00	23.82	26.26	28.11	410.10	427.00	0.75	0.48	0.18
450.10	467.00	7.82	7.74	7.67	450.10	467.00	22.84	24.78	26.83	450.10	467.00	0.57	0.24	0.13
490.10	507.00	7.97	7.90	7.83	490.10	507.00	21.03	23.01	25.09	490.10	507.00	0.62	0.32	0.18
530.10	547.00	7.79	7.73	7.66	530.10	547.00	20.50	22.58	24.73	530.10	547.00	0.75	0.40	0.22
570.10	587.00	7.92	7.84	7.75	570.10	587.00	20.27	22.19	23.98	570.10	587.00	0.77	0.43	0.24
610.10	627.00	7.77	7.69	7.59	610.10	627.00	19.66	21.47	23.24	610.10	627.00	0.77	0.43	0.26
650.10	667.00	7.96	7.87	7.76	650.10	667.00	19.10	20.91	22.75	650.10	667.00	0.88	0.52	0.32
690.10	707.00	8.03	7.96	7.86	690.10	707.00	20.02	21.89	23.87	690.10	707.00	0.89	0.52	0.31
730.10	747.00	8.18	8.13	8.04	730.10	747.00	20.42	22.32	24.51	730.10	747.00	0.84	0.47	0.26
770.10	787.00	8.06	8.01	7.92	770.10	787.00	21.36	23.04	24.40	770.10	787.00	0.87	0.46	0.25
810.10	827.00	8.00	7.98	7.90	810.10	827.00	22.69	24.68	26.50	810.10	827.00	0.87	0.43	0.21
850.10	867.00	7.85	7.80	7.70	850.10	867.00	22.90	25.23	27.97	850.10	867.00	0.99	0.41	0.20
890.10	907.00	7.71	7.65	7.54	890.10	907.00	22.74	25.53	28.37	890.10	907.00	0.99	0.49	0.24
930.10	947.00	7.76	7.70	7.59	930.10	947.00	22.68	25.78	29.06	930.10	947.00	1.10	0.54	0.26
970.10	987.00	7.69	7.62	7.51	970.10	987.00	23.00	26.36	29.84	970.10	987.00	1.18	0.54	0.24
1010.10	1027.00	7.63	7.54	7.43	1010.10	1027.00	23.16	26.47	29.68	1010.10	1027.00	1.22	0.54	0.24
1050.10	1067.00	7.52	7.40	7.29	1050.10	1067.00	22.57	25.37	28.54	1050.10	1067.00	1.33	0.54	0.23
1090.10	1107.00	7.45	7.31	7.20	1090.10	1107.00	20.97	23.53	26.58	1090.10	1107.00	1.43	0.56	0.24
1130.10	1147.00	7.39	7.25	7.14	1130.10	1147.00	19.97	22.25	24.96	1130.10	1147.00	1.52	0.61	0.27
1170.10	1187.00	7.37	7.22	7.11	1170.10	1187.00	19.35	21.45	23.79	1170.10	1187.00	1.62	0.67	0.30
1210.10	1227.00	7.52	7.37	7.26	1210.10	1227.00	19.25	21.20	23.29	1210.10	1227.00	1.55	0.65	0.31
1250.10	1267.00	7.74	7.60	7.48	1250.10	1267.00	19.21	21.06	23.05	1250.10	1267.00	1.57	0.68	0.34
1290.10	1307.00	8.21	8.07	7.96	1290.10	1307.00	19.53	21.38	23.56	1290.10	1307.00	1.47	0.67	0.34
1330.10	1347.00	8.71	8.58	8.47	1330.10	1347.00	19.89	21.92	24.65	1330.10	1347.00	1.37	0.66	0.33
1370.10	1387.00	9.40	9.29	9.16	1370.10	1387.00	19.87	21.76	24.07	1370.10	1387.00	1.33	0.72	0.38
1410.10	1427.00	10.33	10.30	10.22	1410.10	1427.00	21.43	23.68	26.28	1410.10	1427.00	0.94	0.51	0.27
1450.10	1467.00	10.91	10.89	10.82	1450.10	1467.00	23.00	25.77	28.96	1450.10	1467.00	0.72	0.38	0.18
1480.10	1497.00	11.52	11.51	11.44	1480.10	1497.00	23.97	26.99	30.58	1480.10	1497.00	0.57	0.30	0.14
1520.10	1537.00	11.96	11.95	11.89	1520.10	1537.00	24.79	28.10	31.58	1520.10	1537.00	0.48	0.24	0.11
1550.10	1567.00	12.43	12.42	12.36	1550.10	1567.00	24.93	28.19	31.83	1550.10	1567.00	0.45	0.23	0.10

REV. X2

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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)=209.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=193.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=225.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
139.00	70.10	10.46	10.00	203.10	5.85	150.00	75.10	10.71
132.21	76.89	10.26	14.10	207.20	5.77	146.41	78.69	10.51
125.42	83.68	9.78	18.21	211.31	5.79	142.82	82.28	10.44
118.63	90.47	9.58	22.31	215.41	5.88	139.23	85.87	10.37
111.84	97.26	9.22	26.41	219.51	5.83	135.64	89.46	10.15
105.05	104.05	8.43	30.51	223.61	5.91	132.05	93.05	9.89
98.26	110.84	8.60	34.62	227.72	5.99	128.46	96.64	9.78
91.47	117.63	8.08	38.72	231.82	6.03	124.87	100.23	9.74
84.68	124.42	7.97	42.82	235.92	6.09	121.28	103.82	9.47
77.89	131.21	7.56	46.92	240.02	6.19	117.69	107.41	9.13
71.11	137.99	7.32	51.03	244.13	6.24	114.10	111.00	8.96
64.32	144.78	7.02	55.13	248.23	6.30	110.51	114.59	8.96
57.53	151.57	6.59	59.23	252.33	6.38	106.92	118.18	8.86
50.74	158.36	6.44	63.33	256.43	6.44	103.33	121.77	8.57
43.95	165.15	6.08	67.44	260.54	6.47	99.74	125.36	8.33
37.16	171.94	5.96	71.54	264.64	6.53	96.15	128.95	8.24
30.37	178.73	5.74	75.64	268.74	6.67	92.56	132.54	8.18
23.58	185.52	5.56	79.74	272.84	6.78	88.97	136.13	7.97
16.79	192.31	5.47	83.85	276.95	6.86	85.38	139.72	7.66
10.00	199.10	5.66	87.95	281.05	7.00	81.79	143.31	7.50
10.00	219.10	5.88	92.05	285.15	7.20	78.21	146.89	7.40
17.95	227.05	5.62	96.15	289.25	7.35	74.62	150.48	7.31
25.89	234.99	5.65	100.26	293.36	7.37	71.03	154.07	7.02
33.84	242.94	5.77	104.36	297.46	7.42	67.44	157.66	6.79
41.79	250.89	5.89	108.46	301.56	7.61	63.85	161.25	6.68
49.74	258.84	6.02	112.56	305.66	7.75	60.26	164.84	6.60
57.68	266.78	6.16	116.67	309.77	7.83	56.67	168.43	6.50
65.63	274.73	6.30	120.77	313.87	8.00	53.08	172.02	6.26
73.58	282.68	6.50	124.87	317.97	8.28	49.49	175.61	6.14
81.53	290.63	6.75	128.97	322.07	8.53	45.90	179.20	6.05
89.47	298.57	7.07	133.08	326.18	8.63	42.31	182.79	6.01
97.42	306.52	7.18	137.18	330.28	8.76	38.72	186.38	5.86
105.37	314.47	7.52	141.28	334.38	9.02	35.13	189.97	5.72
113.32	322.42	7.76	145.38	338.48	9.22	31.54	193.56	5.65
121.26	330.36	8.24	149.49	342.59	9.32	27.95	197.15	5.58
129.21	338.31	8.53	153.59	346.69	9.51	24.36	200.74	5.61
137.16	346.26	9.07	157.69	350.79	9.88	20.77	204.33	5.49
145.11	354.21	9.45	161.79	354.89	10.20	17.18	207.92	5.48
153.05	362.15	10.22	165.90	359.00	10.49	13.59	211.51	5.59
161.00	370.10	10.72	170.00	363.10	10.74	10.00	215.10	5.84

Frequency Mixer

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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)		
	+14	+17	+20	+14	+17	+20			+14	+17	+20
27.00	64.81	64.29	64.56	53.55	53.34	53.20	10.10	27.00	36.65	40.40	47.41
67.00	62.58	62.64	62.63	49.32	49.14	49.02	50.10	67.00	43.20	45.74	47.74
107.00	61.54	61.77	62.06	47.20	46.88	46.78	90.10	107.00	49.84	50.62	50.35
147.00	61.51	62.14	62.65	47.26	46.88	46.75	130.10	147.00	62.53	62.57	60.89
187.00	54.33	54.48	54.60	48.22	47.88	47.69	170.10	187.00	72.08	71.25	69.54
227.00	58.48	59.92	61.43	48.90	48.62	48.42	210.10	227.00	59.03	58.82	57.18
267.00	48.59	49.17	49.70	47.74	47.71	47.63	250.10	267.00	49.07	48.43	47.59
307.00	42.34	42.52	42.62	45.50	45.51	45.46	290.10	307.00	47.78	47.49	47.38
347.00	37.88	37.90	38.01	43.65	43.61	43.58	330.10	347.00	46.79	46.85	47.03
387.00	33.76	33.68	33.76	42.54	42.49	42.46	370.10	387.00	44.10	44.07	44.05
427.00	38.56	38.57	38.56	44.94	45.04	45.06	410.10	427.00	46.72	46.62	46.42
467.00	43.34	42.87	42.41	43.60	43.67	43.66	450.10	467.00	45.40	45.38	45.33
507.00	51.14	50.07	49.20	42.58	42.64	42.65	490.10	507.00	45.60	45.66	45.59
547.00	57.10	55.81	54.84	41.86	41.90	41.89	530.10	547.00	45.89	46.00	46.04
587.00	56.64	56.87	56.65	41.15	41.17	41.18	570.10	587.00	45.59	45.74	45.74
627.00	56.16	57.09	57.23	40.46	40.45	40.45	610.10	627.00	44.92	45.08	45.06
667.00	54.14	55.88	57.29	39.78	39.80	39.80	650.10	667.00	43.84	43.94	44.02
707.00	50.45	51.58	52.79	39.15	39.20	39.19	690.10	707.00	42.66	42.66	42.75
747.00	55.06	57.19	59.46	38.51	38.54	38.53	730.10	747.00	42.22	42.20	42.30
787.00	50.00	49.86	49.79	37.89	37.92	37.91	770.10	787.00	43.78	43.79	43.87
827.00	44.44	44.70	45.05	37.39	37.44	37.44	810.10	827.00	43.16	43.11	43.08
867.00	43.37	43.76	44.02	37.04	37.09	37.07	850.10	867.00	39.88	39.88	39.85
907.00	42.97	43.39	43.75	36.69	36.72	36.75	890.10	907.00	37.94	37.92	37.89
947.00	41.73	42.03	42.23	36.42	36.47	36.51	930.10	947.00	36.67	36.61	36.58
987.00	41.15	41.40	41.48	36.14	36.21	36.20	970.10	987.00	35.82	35.76	35.73
1027.00	42.13	42.64	42.84	35.92	35.99	35.99	1010.10	1027.00	35.03	34.96	34.92
1067.00	43.85	44.53	44.92	35.76	35.83	35.84	1050.10	1067.00	34.57	34.50	34.46
1107.00	43.56	43.98	44.21	35.59	35.69	35.71	1090.10	1107.00	34.02	33.95	33.92
1147.00	43.04	43.30	43.42	35.49	35.60	35.59	1130.10	1147.00	33.31	33.23	33.22
1187.00	42.45	42.67	42.83	35.32	35.46	35.51	1170.10	1187.00	32.53	32.45	32.45
1227.00	42.19	42.35	42.34	35.11	35.26	35.28	1210.10	1227.00	31.81	31.75	31.77
1267.00	41.84	41.91	41.81	34.75	34.91	34.91	1250.10	1267.00	31.27	31.21	31.23
1307.00	41.66	41.70	41.59	34.25	34.35	34.30	1290.10	1307.00	30.98	30.99	31.10
1347.00	42.06	42.04	41.86	33.81	33.88	33.79	1330.10	1347.00	30.77	30.88	31.09
1387.00	42.36	41.95	41.34	33.50	33.58	33.50	1370.10	1387.00	30.54	30.69	30.97
1427.00	42.09	41.90	41.31	33.33	33.52	33.50	1410.10	1427.00	29.72	29.89	30.18
1467.00	41.61	41.57	41.18	33.11	33.26	33.24	1450.10	1467.00	28.98	29.09	29.24
1497.00	41.29	41.30	41.03	32.99	33.11	33.09	1480.10	1497.00	28.64	28.71	28.77
1537.00	41.22	41.24	40.98	32.94	32.99	32.96	1520.10	1537.00	28.30	28.36	28.42
1567.00	41.33	41.34	41.13	32.91	32.96	32.91	1550.10	1567.00	28.05	28.10	28.13

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=310.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.10	27.00	1.27	1.27	1.20	27.00	12.89	12.80	12.89	10.10	1.48	1.50	1.50
50.10	67.00	1.86	1.92	1.85	67.00	7.66	7.66	7.70	12.10	1.50	1.52	1.52
90.10	107.00	1.96	2.02	2.01	107.00	5.20	5.22	5.22	14.10	1.53	1.56	1.55
130.10	147.00	1.97	2.06	2.07	147.00	5.00	5.00	5.00	16.10	1.55	1.57	1.57
170.10	187.00	1.50	1.54	1.54	187.00	4.84	4.84	4.84	18.10	1.56	1.58	1.58
210.10	227.00	1.22	1.25	1.26	227.00	4.79	4.79	4.79	20.10	1.57	1.59	1.59
250.10	267.00	1.43	1.41	1.42	267.00	4.69	4.69	4.69	22.10	1.60	1.62	1.62
290.10	307.00	2.01	1.99	2.01	307.00	4.53	4.53	4.53	24.10	1.61	1.63	1.63
330.10	347.00	2.89	2.88	2.91	347.00	4.25	4.25	4.25	26.10	1.64	1.66	1.66
370.10	387.00	3.82	3.80	3.82	387.00	3.73	3.70	3.71	28.10	1.69	1.71	1.70
410.10	427.00	2.22	2.21	2.22	427.00	3.81	3.81	3.79	30.10	1.74	1.75	1.75
450.10	467.00	2.67	2.67	2.68	467.00	4.01	4.01	4.00	32.10	1.80	1.81	1.80
490.10	507.00	2.63	2.65	2.67	507.00	3.99	3.99	3.98	34.10	1.86	1.87	1.87
530.10	547.00	2.48	2.48	2.50	547.00	3.97	3.97	3.96	36.10	1.92	1.93	1.93
570.10	587.00	2.36	2.36	2.38	587.00	3.92	3.92	3.91	38.10	1.98	1.99	1.99
610.10	627.00	2.33	2.34	2.35	627.00	3.89	3.89	3.89	40.10	2.03	2.04	2.04
650.10	667.00	2.11	2.11	2.12	667.00	3.82	3.82	3.82	42.10	2.09	2.10	2.10
690.10	707.00	1.88	1.87	1.88	707.00	3.77	3.77	3.76	44.10	2.13	2.14	2.14
730.10	747.00	1.66	1.64	1.65	747.00	3.78	3.78	3.78	46.10	2.17	2.18	2.18
770.10	787.00	1.47	1.44	1.44	787.00	3.73	3.73	3.73	48.10	2.22	2.22	2.22
810.10	827.00	1.28	1.22	1.21	827.00	3.73	3.73	3.74	50.10	2.25	2.25	2.25
850.10	867.00	1.22	1.15	1.14	867.00	3.70	3.70	3.70	52.10	2.31	2.31	2.31
890.10	907.00	1.38	1.34	1.34	907.00	3.68	3.68	3.68	54.10	2.37	2.36	2.36
930.10	947.00	1.60	1.58	1.59	947.00	3.66	3.67	3.67	56.10	2.44	2.43	2.43
970.10	987.00	1.77	1.76	1.77	987.00	3.60	3.60	3.60	58.10	2.54	2.53	2.53
1010.10	1027.00	1.91	1.91	1.92	1027.00	3.59	3.59	3.60	59.10	2.57	2.56	2.56
1050.10	1067.00	1.90	1.90	1.91	1067.00	3.55	3.55	3.54	61.10	2.66	2.65	2.65
1090.10	1107.00	1.80	1.80	1.81	1107.00	3.53	3.53	3.54	62.10	2.72	2.70	2.71
1130.10	1147.00	1.68	1.69	1.69	1147.00	3.50	3.50	3.50	64.10	2.80	2.78	2.78
1170.10	1187.00	1.61	1.64	1.63	1187.00	3.45	3.45	3.45	65.10	2.85	2.84	2.84
1210.10	1227.00	1.71	1.75	1.74	1227.00	3.43	3.43	3.43	67.10	2.98	2.96	2.96
1250.10	1267.00	1.89	1.94	1.92	1267.00	3.36	3.35	3.34	68.10	3.01	3.00	3.00
1290.10	1307.00	2.18	2.24	2.21	1307.00	3.31	3.31	3.31	70.10	3.10	3.08	3.08
1330.10	1347.00	2.54	2.60	2.57	1347.00	3.23	3.22	3.21	71.10	3.15	3.13	3.14
1370.10	1387.00	3.00	3.09	3.05	1387.00	3.14	3.12	3.10	73.10	3.23	3.21	3.21
1410.10	1427.00	3.83	4.00	4.02	1427.00	3.12	3.11	3.09	74.10	3.27	3.25	3.25
1450.10	1467.00	4.39	4.56	4.62	1467.00	3.17	3.17	3.15	76.10	3.31	3.29	3.29
1480.10	1497.00	4.92	5.12	5.19	1497.00	3.20	3.20	3.20	77.10	3.33	3.31	3.31
1520.10	1537.00	5.54	5.74	5.83	1537.00	3.19	3.19	3.18	79.10	3.37	3.35	3.35
1550.10	1567.00	5.79	5.99	6.09	1567.00	3.20	3.20	3.19	80.10	3.43	3.40	3.40

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	51	46	44	53	50	51	55	51	52
1	-	54	+0	55	27	53	31	59	32	65	32	67
2	68	78	65	59	67	82	>83	81	76	77	72	72
3	>90	>83	81	>83	66	>83	82	>83	77	>83	76	>83
4	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
5	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>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: 209.1 MHz; -1.00 dBm.
LO IN: 226 MHz; +17.00 dBm
IF OUT: 16.9 MHz; -6.71 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	33	62	55	53	71	57	62	55	56	57
1	-	54	+0	52	27	54	32	57	33	59	34	64
2	48	71	55	49	57	69	78	72	67	67	63	63
3	68	90	63	67	46	68	62	80	56	79	55	76
4	>90	85	>93	77	81	65	83	83	>93	77	84	75
5	>90	>93	81	>93	76	80	72	85	>93	>93	83	88
6	>90	86	>93	90	>93	84	>93	80	>93	>93	>93	>93
7	>90	>93	84	>93	88	>93	83	91	77	>93	>93	>93
8	>90	89	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	87	>93
10	>90	87	>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: 209.1 MHz; 9.00 dBm.
LO IN: 226 MHz; +17.00 dBm
IF OUT: 16.9 MHz; 3.26 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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