

Frequency Mixer

HJK-ED12044/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=21.4MHz (dB)		
		@LO (dBm)		
		+17	+19	+21
10.1	31.5	6.27	6.12	6.02
50.1	71.5	6.06	5.95	5.86
90.1	111.5	6.28	6.21	6.16
130.1	151.5	6.29	6.21	6.15
170.1	191.5	6.50	6.44	6.40
210.1	231.5	6.76	6.69	6.63
250.1	271.5	6.81	6.75	6.70
290.1	311.5	7.16	7.08	7.02
330.1	351.5	7.09	7.01	6.95
370.1	391.5	7.44	7.35	7.29
410.1	431.5	7.42	7.32	7.25
450.1	471.5	7.52	7.42	7.33
490.1	511.5	7.70	7.58	7.48
530.1	551.5	7.75	7.63	7.53
570.1	591.5	8.08	7.95	7.84
610.1	631.5	8.01	7.89	7.78
650.1	671.5	8.22	8.08	7.97
690.1	711.5	8.20	8.05	7.94
730.1	751.5	8.34	8.17	8.04
770.1	791.5	8.56	8.39	8.25
810.1	831.5	8.56	8.41	8.30
850.1	871.5	8.57	8.43	8.32
890.1	911.5	8.53	8.39	8.29
930.1	951.5	8.55	8.40	8.29
970.1	991.5	8.53	8.38	8.27
1010.1	1031.5	8.50	8.35	8.23
1050.1	1071.5	8.36	8.21	8.08
1090.1	1111.5	8.25	8.10	7.98
1130.1	1151.5	8.15	8.00	7.89
1170.1	1191.5	8.16	8.02	7.91
1210.1	1231.5	8.35	8.22	8.12
1250.1	1271.5	8.56	8.43	8.34
1290.1	1311.5	9.11	8.99	8.91
1330.1	1351.5	9.54	9.43	9.34
1370.1	1391.5	10.18	10.07	9.98
1410.1	1431.5	10.86	10.75	10.67
1450.1	1471.5	11.51	11.41	11.34
1480.1	1501.5	12.29	12.19	12.12
1520.1	1541.5	12.88	12.77	12.69
1550.1	1571.5	13.39	13.27	13.17

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+17	+19	+21
10.1	31.5	23.28	25.15	26.72
50.1	71.5	26.97	29.01	31.08
90.1	111.5	29.57	30.44	31.49
130.1	151.5	29.43	30.71	32.10
170.1	191.5	30.53	30.73	34.70
210.1	231.5	29.81	30.47	32.10
250.1	271.5	30.20	31.01	32.36
290.1	311.5	28.81	30.07	31.39
330.1	351.5	29.39	30.91	32.49
370.1	391.5	28.48	30.03	31.45
410.1	431.5	27.79	29.24	31.15
450.1	471.5	28.19	29.81	31.83
490.1	511.5	28.52	30.61	32.83
530.1	551.5	28.52	30.44	32.59
570.1	591.5	28.04	29.87	31.76
610.1	631.5	28.06	29.99	31.69
650.1	671.5	27.09	29.52	31.35
690.1	711.5	26.32	28.71	31.21
730.1	751.5	24.12	26.02	28.05
770.1	791.5	24.04	26.47	28.98
810.1	831.5	25.90	28.32	30.90
850.1	871.5	26.21	28.72	31.24
890.1	911.5	27.11	29.61	32.12
930.1	951.5	26.86	29.05	31.15
970.1	991.5	25.49	27.27	28.82
1010.1	1031.5	25.26	27.03	28.88
1050.1	1071.5	24.85	26.68	28.44
1090.1	1111.5	24.22	25.92	27.92
1130.1	1151.5	24.12	25.84	27.80
1170.1	1191.5	24.06	25.81	27.74
1210.1	1231.5	24.53	26.32	28.20
1250.1	1271.5	25.04	26.95	28.81
1290.1	1311.5	25.51	27.33	29.02
1330.1	1351.5	26.17	28.04	29.58
1370.1	1391.5	26.69	29.01	31.07
1410.1	1431.5	27.52	29.82	32.28
1450.1	1471.5	27.64	29.63	31.63
1480.1	1501.5	28.16	30.21	32.37
1520.1	1541.5	28.71	30.41	32.39
1550.1	1571.5	28.68	30.67	32.42

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+17	+19	+21
10.1	31.5	1.50	0.81	0.52
50.1	71.5	0.54	0.33	0.20
90.1	111.5	0.21	0.14	0.08
130.1	151.5	0.20	0.13	0.08
170.1	191.5	0.18	0.12	0.08
210.1	231.5	0.18	0.12	0.08
250.1	271.5	0.17	0.11	0.07
290.1	311.5	0.22	0.14	0.09
330.1	351.5	0.22	0.14	0.09
370.1	391.5	0.28	0.17	0.11
410.1	431.5	0.27	0.17	0.11
450.1	471.5	0.33	0.20	0.13
490.1	511.5	0.35	0.22	0.13
530.1	551.5	0.38	0.23	0.14
570.1	591.5	0.41	0.26	0.16
610.1	631.5	0.41	0.26	0.16
650.1	671.5	0.46	0.29	0.18
690.1	711.5	0.48	0.32	0.20
730.1	751.5	0.65	0.45	0.31
770.1	791.5	0.81	0.57	0.37
810.1	831.5	0.72	0.41	0.23
850.1	871.5	0.72	0.38	0.21
890.1	911.5	0.68	0.35	0.19
930.1	951.5	0.74	0.38	0.20
970.1	991.5	0.81	0.44	0.25
1010.1	1031.5	0.82	0.46	0.26
1050.1	1071.5	0.84	0.47	0.26
1090.1	1111.5	0.88	0.50	0.28
1130.1	1151.5	0.87	0.49	0.28
1170.1	1191.5	0.91	0.52	0.30
1210.1	1231.5	0.85	0.48	0.28
1250.1	1271.5	0.80	0.46	0.26
1290.1	1311.5	0.74	0.41	0.23
1330.1	1351.5	0.62	0.35	0.20
1370.1	1391.5	0.58	0.33	0.19
1410.1	1431.5	0.46	0.26	0.15
1450.1	1471.5	0.42	0.25	0.15
1480.1	1501.5	0.36	0.22	0.13
1520.1	1541.5	0.30	0.18	0.11
1550.1	1571.5	0.31	0.18	0.11

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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)=125.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=112.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=137.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+19			+19			+19
115.0	10.1	7.99	10.0	122.1	6.18	127.0	10.1	7.97
108.8	16.3	7.14	50.0	162.1	6.27	124.0	13.1	7.43
102.6	22.5	6.76	90.0	202.1	6.35	121.0	16.1	7.09
96.5	28.6	6.58	150.0	262.1	6.58	118.0	19.1	6.90
90.3	34.8	6.42	190.0	302.1	6.67	115.0	22.1	6.78
84.1	41.0	6.41	250.0	362.1	6.74	112.0	25.1	6.64
77.9	47.2	6.39	290.0	402.1	6.97	109.0	28.1	6.55
71.8	53.3	6.31	350.0	462.1	6.85	106.0	31.1	6.51
65.6	59.5	6.32	390.0	502.1	6.77	103.0	34.1	6.47
59.4	65.7	6.33	450.0	562.1	6.70	100.0	37.1	6.40
53.2	71.9	6.22	490.0	602.1	6.80	97.0	40.1	6.40
47.1	78.0	6.25	550.0	662.1	7.08	94.0	43.1	6.38
42.9	82.2	6.22	590.0	702.1	7.35	91.0	46.1	6.34
36.8	88.3	6.18	650.0	762.1	7.66	88.0	49.1	6.40
32.6	92.5	6.16	690.0	802.1	7.75	85.0	52.1	6.34
26.5	98.6	6.17	750.0	862.1	8.03	82.0	55.1	6.35
22.4	102.7	6.15	790.0	902.1	8.16	79.0	58.1	6.34
16.2	108.9	6.07	850.0	962.1	8.25	76.0	61.1	6.27
12.1	113.0	6.11	890.0	1002.1	8.52	73.0	64.1	6.28
47.9	173.0	6.28	950.0	1062.1	8.47	70.0	67.1	6.19
123.8	248.9	6.48	990.0	1102.1	8.45	67.0	70.1	6.17
237.6	362.7	6.67	1050.0	1162.1	8.40	64.0	73.1	6.26
313.5	438.6	6.87	1090.0	1202.1	8.45	61.0	76.1	6.20
427.4	552.5	6.62	1150.0	1262.1	8.55	58.0	79.1	6.13
503.2	628.3	6.80	1190.0	1302.1	8.71	55.0	82.1	6.28
617.1	742.2	7.54	1250.0	1362.1	8.81	52.0	85.1	6.23
692.9	818.0	7.70	1290.0	1402.1	8.94	49.0	88.1	6.20
806.8	931.9	8.08	1350.0	1462.1	8.83	46.0	91.1	6.22
882.6	1007.7	8.39	1390.0	1502.1	8.84	43.0	94.1	6.13
996.5	1121.6	8.35	1450.0	1562.1	8.97	40.0	97.1	6.12
1072.4	1197.5	8.34	1490.0	1602.1	9.15	37.0	100.1	6.13
1186.2	1311.3	8.62	1550.0	1662.1	9.33	34.0	103.1	6.13
1262.1	1387.2	8.80	1590.0	1702.1	9.29	31.0	106.1	6.17
1375.9	1501.0	8.72	1650.0	1762.1	9.27	28.0	109.1	6.12
1451.8	1576.9	8.97	1690.0	1802.1	9.21	25.0	112.1	6.11
1565.6	1690.7	9.25	1750.0	1862.1	9.28	22.0	115.1	6.13
1641.5	1766.6	9.23	1790.0	1902.1	9.30	19.0	118.1	6.15
1755.3	1880.4	9.24	1850.0	1962.1	9.61	16.0	121.1	6.08
1831.2	1956.3	9.54	1890.0	2002.1	9.74	13.0	124.1	6.15
1945.0	2070.1	10.15	1950.0	2062.1	10.16	10.0	127.1	6.10

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+17	+19	+21	+17	+19	+21
31.5	59.96	59.67	59.24	59.48	59.22	58.95
71.5	56.34	56.09	55.86	56.57	56.33	56.12
111.5	56.85	56.66	56.41	58.31	57.99	57.72
151.5	57.79	57.52	57.27	62.12	61.75	61.47
191.5	56.42	56.21	56.10	56.63	56.66	56.71
231.5	51.91	51.78	51.70	51.41	51.36	51.28
271.5	50.05	49.97	49.89	48.20	48.16	48.16
311.5	46.92	46.80	46.70	45.73	45.70	45.67
351.5	44.50	44.41	44.33	43.51	43.44	43.35
391.5	44.58	44.54	44.53	42.19	42.05	42.00
431.5	43.57	43.46	43.35	41.77	41.69	41.57
471.5	41.92	41.78	41.64	40.53	40.41	40.27
511.5	40.97	40.78	40.65	39.58	39.45	39.35
551.5	39.92	39.74	39.59	38.32	38.21	38.10
591.5	39.08	38.91	38.72	37.43	37.38	37.31
631.5	38.18	38.01	37.87	36.70	36.64	36.59
671.5	37.96	37.77	37.65	36.67	36.58	36.56
711.5	37.69	37.58	37.51	36.67	36.66	36.65
751.5	38.82	38.75	38.74	36.77	36.77	36.78
791.5	43.10	43.17	43.29	37.87	37.98	38.06
831.5	47.27	47.45	47.59	38.87	39.02	39.18
871.5	45.94	46.19	46.47	38.93	39.16	39.41
911.5	43.67	43.84	44.04	38.62	38.93	39.25
951.5	42.12	42.19	42.24	38.17	38.51	38.87
991.5	41.71	41.79	41.88	37.37	37.67	38.00
1031.5	41.20	41.32	41.35	36.32	36.56	36.71
1071.5	40.99	41.04	41.11	35.36	35.49	35.56
1111.5	41.02	41.06	41.14	34.42	34.48	34.50
1151.5	40.89	40.92	41.04	33.68	33.69	33.74
1191.5	41.05	41.09	41.23	32.97	32.96	33.02
1231.5	41.12	41.14	41.27	32.28	32.25	32.28
1271.5	41.24	41.28	41.41	31.53	31.49	31.52
1311.5	41.03	40.99	41.03	31.01	31.01	31.06
1351.5	41.31	41.19	41.18	31.05	31.11	31.24
1391.5	41.71	41.48	41.40	31.62	31.74	31.93
1431.5	43.15	42.92	42.82	32.62	32.82	33.09
1471.5	46.15	46.04	45.92	33.77	34.09	34.39
1501.5	50.44	50.57	50.68	34.51	34.86	35.17
1541.5	48.18	48.51	48.78	35.29	35.60	35.99
1571.5	45.89	46.11	46.31	36.00	36.31	36.74

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+17	+19	+21
10.1	31.5	34.79	33.77	32.45
50.1	71.5	38.77	38.71	38.15
90.1	111.5	41.01	40.92	40.26
130.1	151.5	44.37	44.73	44.92
170.1	191.5	43.30	43.20	42.78
210.1	231.5	44.51	44.57	44.73
250.1	271.5	42.47	42.23	41.82
290.1	311.5	44.45	44.45	44.37
330.1	351.5	44.71	44.71	44.46
370.1	391.5	43.21	42.93	42.63
410.1	431.5	43.02	43.06	43.25
450.1	471.5	45.21	44.57	43.48
490.1	511.5	45.44	44.52	43.27
530.1	551.5	46.63	46.35	45.84
570.1	591.5	49.24	48.59	47.88
610.1	631.5	51.62	50.86	50.70
650.1	671.5	48.58	47.66	47.13
690.1	711.5	46.32	45.78	45.59
730.1	751.5	52.05	51.30	51.10
770.1	791.5	41.56	41.17	40.69
810.1	831.5	42.79	43.30	44.01
850.1	871.5	46.49	48.02	49.80
890.1	911.5	47.26	48.02	48.13
930.1	951.5	44.98	45.10	45.29
970.1	991.5	41.84	41.65	41.50
1010.1	1031.5	39.11	38.62	38.08
1050.1	1071.5	37.36	36.83	36.13
1090.1	1111.5	36.05	35.53	34.82
1130.1	1151.5	34.86	34.32	33.44
1170.1	1191.5	33.77	33.22	32.36
1210.1	1231.5	33.23	32.87	32.15
1250.1	1271.5	32.90	32.51	31.74
1290.1	1311.5	33.06	32.77	32.23
1330.1	1351.5	32.53	32.14	31.59
1370.1	1391.5	32.03	31.75	31.41
1410.1	1431.5	31.88	31.72	31.48
1450.1	1471.5	32.94	32.98	33.10
1480.1	1501.5	34.80	35.20	35.76
1520.1	1541.5	35.87	36.50	37.27
1550.1	1571.5	34.84	35.28	35.85

Frequency Mixer

HJK-ED12044/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=158MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+17	+19	+21		+17	+19	+21	+17		+19	+21		
10.1	31.5	1.03	1.07	1.07	31.5	5.13	5.14	5.16	10.1	1.34	1.38	1.41		
50.1	71.5	1.24	1.25	1.27	71.5	5.91	5.91	5.89	13.1	1.34	1.37	1.41		
90.1	111.5	1.37	1.38	1.39	111.5	2.63	2.63	2.62	16.1	1.34	1.38	1.41		
130.1	151.5	1.58	1.59	1.60	151.5	2.08	2.08	2.07	19.1	1.34	1.37	1.41		
170.1	191.5	1.71	1.71	1.72	191.5	2.26	2.26	2.25	22.1	1.34	1.37	1.40		
210.1	231.5	1.86	1.85	1.86	231.5	2.82	2.82	2.81	25.1	1.33	1.36	1.39		
250.1	271.5	2.03	2.02	2.01	271.5	3.63	3.63	3.62	28.1	1.32	1.36	1.39		
290.1	311.5	2.12	2.10	2.09	311.5	4.61	4.61	4.59	31.1	1.31	1.34	1.37		
330.1	351.5	2.27	2.25	2.22	351.5	5.74	5.74	5.72	34.1	1.31	1.34	1.37		
370.1	391.5	2.28	2.24	2.21	391.5	6.86	6.86	6.83	37.1	1.31	1.34	1.38		
410.1	431.5	2.36	2.31	2.27	431.5	8.31	8.27	8.23	40.1	1.32	1.35	1.38		
450.1	471.5	2.47	2.40	2.34	471.5	9.69	9.69	9.63	43.1	1.33	1.37	1.40		
490.1	511.5	2.59	2.51	2.44	511.5	11.03	11.03	10.96	46.1	1.35	1.38	1.41		
530.1	551.5	2.76	2.67	2.59	551.5	12.61	12.61	12.52	49.1	1.36	1.39	1.42		
570.1	591.5	2.81	2.71	2.63	591.5	13.70	13.60	13.49	52.1	1.37	1.40	1.43		
610.1	631.5	2.93	2.83	2.74	631.5	14.87	14.74	14.62	55.1	1.36	1.40	1.43		
650.1	671.5	3.06	2.95	2.86	671.5	14.74	14.74	14.62	58.1	1.37	1.40	1.43		
690.1	711.5	3.26	3.15	3.05	711.5	15.00	14.87	14.62	61.1	1.36	1.39	1.42		
730.1	751.5	3.33	3.21	3.09	751.5	14.87	14.74	14.62	64.1	1.35	1.38	1.41		
770.1	791.5	2.93	2.81	2.71	791.5	14.74	14.50	14.15	67.1	1.35	1.39	1.42		
810.1	831.5	3.00	2.92	2.86	831.5	16.41	16.26	16.11	70.1	1.35	1.38	1.41		
850.1	871.5	3.12	3.05	3.00	871.5	16.89	16.72	16.41	73.1	1.36	1.39	1.42		
890.1	911.5	3.23	3.18	3.14	911.5	17.05	16.89	16.56	76.1	1.38	1.41	1.44		
930.1	951.5	3.24	3.20	3.17	951.5	17.22	17.05	16.72	79.1	1.39	1.42	1.45		
970.1	991.5	3.14	3.11	3.09	991.5	16.56	16.26	15.67	82.1	1.41	1.44	1.47		
1010.1	1031.5	3.04	3.03	3.01	1031.5	16.72	16.72	16.41	85.1	1.42	1.45	1.48		
1050.1	1071.5	2.79	2.79	2.79	1071.5	15.39	15.13	14.74	88.1	1.43	1.46	1.49		
1090.1	1111.5	2.60	2.61	2.63	1111.5	14.50	14.38	14.15	91.1	1.43	1.46	1.49		
1130.1	1151.5	2.46	2.49	2.53	1151.5	13.81	13.70	13.49	94.1	1.42	1.45	1.48		
1170.1	1191.5	2.42	2.47	2.53	1191.5	12.80	12.61	12.26	97.1	1.41	1.44	1.47		
1210.1	1231.5	2.52	2.60	2.68	1231.5	12.44	12.35	12.26	100.1	1.41	1.44	1.47		
1250.1	1271.5	2.66	2.75	2.84	1271.5	11.38	11.17	10.82	103.1	1.41	1.44	1.47		
1290.1	1311.5	3.05	3.16	3.26	1311.5	10.50	10.43	10.31	106.1	1.41	1.44	1.47		
1330.1	1351.5	3.42	3.51	3.61	1351.5	9.58	9.48	9.33	109.1	1.42	1.45	1.48		
1370.1	1391.5	3.86	3.95	4.04	1391.5	8.72	8.60	8.43	112.1	1.44	1.47	1.50		
1410.1	1431.5	4.61	4.70	4.80	1431.5	7.97	7.90	7.83	115.1	1.46	1.49	1.51		
1450.1	1471.5	5.31	5.39	5.49	1471.5	7.17	7.05	6.91	118.1	1.47	1.50	1.53		
1480.1	1501.5	6.13	6.21	6.32	1501.5	6.66	6.61	6.53	121.1	1.48	1.51	1.53		
1520.1	1541.5	7.00	7.08	7.20	1541.5	6.01	5.97	5.91	127.1	1.47	1.50	1.53		
1550.1	1571.5	7.56	7.63	7.70	1571.5	5.63	5.59	5.51	130.1	1.46	1.49	1.52		

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	35	26	28	46	34	49	37	40	45	39
1	-	39	+0	44	12	48	16	50	20	53	27	46
2	66	57	62	38	55	54	52	52	53	56	54	50
3	>90	>84	70	83	68	81	64	77	64	73	66	73
4	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	83	>84	>84	>84	>84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	84	68	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	81	>84	>84
10	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 125.1 MHz; 0.00 dBm.
LO IN: 146.5 MHz; +19.00 dBm
IF OUT: 21.4 MHz; -6.25 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	37	40	42	40	43	44	63	41	39	38
1	-	39	+0	44	12	49	17	47	21	50	29	49
2	46	48	52	30	45	44	42	43	44	46	46	41
3	67	79	55	61	50	58	49	55	48	52	48	52
4	>90	74	74	79	84	83	81	78	77	72	74	74
5	>90	85	71	85	71	86	71	92	69	87	68	89
6	>90	91	92	87	87	83	87	82	83	82	83	81
7	>90	>94	85	>94	86	>94	85	66	88	>94	85	>94
8	>90	>94	>94	>94	>94	>94	>94	93	91	>94	>94	92
9	>90	>94	>94	>94	>94	>94	>94	>94	93	90	>94	>94
10	>90	>94	>94	>94	>94	>94	>94	>94	>94	93	>94	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 125.1 MHz; 10.00 dBm.
LO IN: 146.5 MHz; +19.00 dBm
IF OUT: 21.4 MHz; 3.69 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.