

Frequency Mixer

HJK-ED9802

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+16dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
160.0	190.0	16.82	14.15	11.74	160.0	190.0	7.98	9.47	11.67	160.0	190.0	-0.42	-0.07	0.26
260.0	290.0	10.66	9.14	7.96	260.0	290.0	12.16	14.47	17.39	260.0	290.0	2.16	1.60	1.04
360.0	390.0	8.39	7.20	6.47	360.0	390.0	17.93	22.22	24.36	360.0	390.0	1.84	1.19	0.54
460.0	490.0	6.88	6.43	6.14	460.0	490.0	17.53	19.21	21.65	460.0	490.0	1.61	1.01	0.62
540.0	570.0	7.06	7.05	7.17	540.0	570.0	22.41	25.79	29.35	540.0	570.0	1.17	0.54	0.24
640.0	670.0	6.63	6.74	6.98	640.0	670.0	26.76	29.38	33.93	640.0	670.0	0.35	0.20	0.09
720.0	750.0	6.66	6.72	6.86	720.0	750.0	26.86	29.20	31.93	720.0	750.0	0.42	0.24	0.15
820.0	850.0	6.82	6.69	6.68	820.0	850.0	24.93	28.34	30.09	820.0	850.0	0.72	0.42	0.25
900.0	930.0	7.30	6.95	6.80	900.0	930.0	22.36	25.92	29.51	900.0	930.0	0.79	0.53	0.34
1000.0	1030.0	8.26	7.65	7.32	1000.0	1030.0	23.51	25.59	27.49	1000.0	1030.0	0.69	0.59	0.42
1080.0	1110.0	8.26	7.52	7.12	1080.0	1110.0	21.52	23.99	26.97	1080.0	1110.0	0.69	0.71	0.48
1180.0	1210.0	8.78	7.88	7.39	1180.0	1210.0	21.39	23.17	25.89	1180.0	1210.0	0.46	0.56	0.47
1260.0	1290.0	9.21	8.17	7.59	1260.0	1290.0	26.25	25.30	27.12	1260.0	1290.0	0.53	0.53	0.45
1360.0	1390.0	9.50	8.38	7.78	1360.0	1390.0	23.45	25.98	27.92	1360.0	1390.0	0.82	0.62	0.47
1440.0	1470.0	9.56	8.44	7.85	1440.0	1470.0	19.84	22.39	25.15	1440.0	1470.0	1.05	0.83	0.57
1540.0	1570.0	9.78	8.51	7.89	1540.0	1570.0	19.53	22.11	25.13	1540.0	1570.0	0.72	1.02	0.76
1620.0	1650.0	9.50	8.30	7.75	1620.0	1650.0	20.19	22.72	25.93	1620.0	1650.0	0.58	0.92	0.71
1720.0	1750.0	9.34	8.19	7.67	1720.0	1750.0	20.57	22.95	26.02	1720.0	1750.0	0.46	0.79	0.60
1800.0	1830.0	8.91	7.96	7.54	1800.0	1830.0	20.61	23.37	26.49	1800.0	1830.0	0.57	0.76	0.53
1900.0	1930.0	8.55	7.78	7.47	1900.0	1930.0	20.87	24.09	27.60	1900.0	1930.0	0.69	0.75	0.47
1980.0	2010.0	8.16	7.60	7.40	1980.0	2010.0	21.46	24.93	28.77	1980.0	2010.0	0.80	0.71	0.40
2080.0	2110.0	7.90	7.46	7.36	2080.0	2110.0	22.45	26.14	30.17	2080.0	2110.0	0.79	0.60	0.30
2160.0	2190.0	7.66	7.36	7.32	2160.0	2190.0	23.24	26.69	31.18	2160.0	2190.0	0.79	0.52	0.24
2260.0	2290.0	7.50	7.29	7.28	2260.0	2290.0	23.75	26.77	31.42	2260.0	2290.0	0.72	0.44	0.20
2340.0	2370.0	7.46	7.29	7.30	2340.0	2370.0	23.64	27.13	31.93	2340.0	2370.0	0.67	0.36	0.17
2440.0	2470.0	7.52	7.38	7.39	2440.0	2470.0	24.23	28.00	33.13	2440.0	2470.0	0.59	0.29	0.14
2520.0	2550.0	7.61	7.45	7.44	2520.0	2550.0	23.87	27.80	33.45	2520.0	2550.0	0.55	0.29	0.15
2620.0	2650.0	7.72	7.51	7.43	2620.0	2650.0	23.37	27.16	32.52	2620.0	2650.0	0.54	0.33	0.16
2700.0	2730.0	7.96	7.64	7.48	2700.0	2730.0	22.79	25.80	29.66	2700.0	2730.0	0.50	0.36	0.20
2800.0	2830.0	8.41	7.98	7.72	2800.0	2830.0	23.37	26.14	29.21	2800.0	2830.0	0.48	0.37	0.23
2880.0	2910.0	8.86	8.31	8.03	2880.0	2910.0	25.19	27.84	30.31	2880.0	2910.0	0.49	0.40	0.29
2980.0	3010.0	8.96	8.40	8.11	2980.0	3010.0	23.76	26.35	29.41	2980.0	3010.0	0.67	0.59	0.38
3060.0	3090.0	9.01	8.34	8.02	3060.0	3090.0	22.42	25.37	29.15	3060.0	3090.0	0.88	0.72	0.47
3160.0	3190.0	9.24	8.41	8.03	3160.0	3190.0	21.38	24.36	27.24	3160.0	3190.0	0.99	0.82	0.58
3240.0	3270.0	9.86	8.76	8.16	3240.0	3270.0	19.22	23.58	26.35	3240.0	3270.0	0.87	0.78	0.63
3340.0	3370.0	10.51	9.25	8.46	3340.0	3370.0	16.92	21.84	26.50	3340.0	3370.0	0.61	0.63	0.57
3420.0	3450.0	11.21	9.83	8.82	3420.0	3450.0	15.39	19.79	25.27	3420.0	3450.0	0.41	0.46	0.48
3520.0	3550.0	11.86	10.40	9.27	3520.0	3550.0	14.52	18.16	23.42	3520.0	3550.0	0.26	0.29	0.35
3600.0	3630.0	12.60	10.90	9.78	3600.0	3630.0	13.94	17.51	22.06	3600.0	3630.0	-0.04	0.10	0.20
3700.0	3730.0	13.56	11.72	10.49	3700.0	3730.0	13.40	17.06	22.13	3700.0	3730.0	-0.32	-0.10	0.04

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2250MHz (dB)
		@LO (dBm)
		+17
1110.0	1140.0	9.25
1042.7	1207.3	10.29
975.3	1274.7	10.20
908.0	1342.0	9.82
863.1	1386.9	9.94
795.7	1454.3	9.55
750.8	1499.2	9.54
683.5	1566.5	9.17
638.6	1611.4	8.93
571.2	1678.8	8.77
526.3	1723.7	8.49
459.0	1791.0	8.32
414.1	1835.9	8.13
346.7	1903.3	7.93
301.8	1948.2	7.82
234.5	2015.5	7.63
189.6	2060.4	7.54
122.2	2127.8	7.38
77.3	2172.7	7.31
10.0	2240.0	7.29
28.0	2278.0	7.29
81.8	2331.8	7.17
117.8	2367.8	7.18
171.6	2421.6	7.21
207.6	2457.6	7.28
261.4	2511.4	7.39
297.3	2547.3	7.46
351.2	2601.2	7.57
387.1	2637.1	7.65
441.0	2691.0	7.85
476.9	2726.9	8.00
530.8	2780.8	8.40
566.7	2816.7	8.70
620.6	2870.6	9.24
656.5	2906.5	9.49
710.4	2960.4	9.86
746.3	2996.3	10.00
800.2	3050.2	10.37
836.1	3086.1	10.54
890.0	3140.0	10.91

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1400MHz (dB)
		@LO (dBm)
		+17
10.0	1410.0	8.36
50.0	1450.0	8.23
90.0	1490.0	8.37
130.0	1530.0	8.32
170.0	1570.0	8.40
210.0	1610.0	8.42
250.0	1650.0	8.41
290.0	1690.0	8.53
330.0	1730.0	8.43
370.0	1770.0	8.55
410.0	1810.0	8.51
450.0	1850.0	8.57
490.0	1890.0	8.66
530.0	1930.0	8.59
570.0	1970.0	8.73
610.0	2010.0	8.58
650.0	2050.0	8.69
690.0	2090.0	8.51
730.0	2130.0	8.62
770.0	2170.0	8.70
810.0	2210.0	8.59
850.0	2250.0	8.79
890.0	2290.0	8.65
930.0	2330.0	8.77
970.0	2370.0	8.78
1010.0	2410.0	8.81
1050.0	2450.0	8.91
1090.0	2490.0	8.91
1130.0	2530.0	9.00
1170.0	2570.0	9.07
1210.0	2610.0	9.18
1250.0	2650.0	9.31
1290.0	2690.0	9.55
1330.0	2730.0	9.64
1370.0	2770.0	9.99
1410.0	2810.0	10.30
1450.0	2850.0	10.73
1510.0	2910.0	11.04
1550.0	2950.0	11.28
1610.0	3010.0	11.04

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3100MHz (dB)
		@LO (dBm)
		+17
1210.0	1890.0	10.71
1170.0	1930.0	10.51
1130.0	1970.0	10.34
1090.0	2010.0	10.11
1050.0	2050.0	10.02
1030.0	2070.0	9.75
990.0	2110.0	9.59
970.0	2130.0	9.58
930.0	2170.0	9.34
910.0	2190.0	9.23
870.0	2230.0	9.24
850.0	2250.0	9.15
810.0	2290.0	8.93
790.0	2310.0	8.96
750.0	2350.0	8.94
730.0	2370.0	8.80
690.0	2410.0	8.78
670.0	2430.0	8.78
630.0	2470.0	8.63
610.0	2490.0	8.60
570.0	2530.0	8.53
550.0	2550.0	8.44
510.0	2590.0	8.35
490.0	2610.0	8.37
450.0	2650.0	8.28
430.0	2670.0	8.26
390.0	2710.0	8.28
370.0	2730.0	8.24
330.0	2770.0	8.26
310.0	2790.0	8.28
270.0	2830.0	8.32
250.0	2850.0	8.37
210.0	2890.0	8.41
190.0	2910.0	8.44
150.0	2950.0	8.52
130.0	2970.0	8.53
90.0	3010.0	8.54
70.0	3030.0	8.55
30.0	3070.0	8.56
10.0	3090.0	8.47

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
190.0	58.10	58.11	58.14	54.55	54.63	54.74
290.0	56.35	55.21	54.34	49.01	49.60	50.17
390.0	52.13	51.19	50.48	46.05	46.83	47.50
490.0	43.74	42.71	41.98	45.15	46.07	46.79
570.0	56.13	56.28	54.99	39.96	39.56	39.17
670.0	54.14	53.89	52.75	32.07	31.56	31.10
750.0	50.36	54.89	60.41	31.30	30.93	30.64
850.0	41.80	43.91	45.82	32.80	32.47	32.19
930.0	39.90	41.70	43.32	33.10	32.99	32.83
1030.0	40.05	41.30	42.31	36.37	37.37	38.08
1110.0	38.12	38.44	38.89	38.36	38.29	38.12
1210.0	36.52	36.57	36.80	38.13	38.12	38.31
1290.0	36.48	37.11	37.82	39.05	38.82	38.81
1390.0	36.52	37.21	37.99	41.13	40.13	39.60
1470.0	36.54	36.84	37.37	44.60	42.40	41.40
1570.0	36.78	36.95	37.32	41.62	41.69	41.53
1650.0	35.16	35.65	36.14	36.02	36.44	36.59
1750.0	34.30	35.21	36.12	36.67	36.69	36.66
1830.0	34.49	35.60	36.53	38.48	38.08	37.69
1930.0	34.39	35.58	36.50	40.03	38.96	38.15
2010.0	34.33	35.57	36.43	39.76	38.78	37.90
2110.0	34.32	35.37	36.18	38.08	37.46	37.06
2190.0	33.92	34.94	35.52	36.91	37.00	36.61
2290.0	33.54	34.49	34.98	36.98	38.90	39.89
2370.0	33.41	34.26	35.00	36.93	39.52	41.42
2470.0	33.24	34.04	34.97	33.30	32.69	32.24
2550.0	33.70	34.84	35.92	30.41	29.66	29.21
2650.0	33.78	35.08	36.20	28.21	27.78	27.24
2730.0	33.91	34.80	35.66	27.34	27.04	26.65
2830.0	34.02	34.63	35.20	26.44	26.46	26.37
2910.0	32.87	33.17	33.40	25.85	26.16	26.22
3010.0	31.10	31.28	31.41	25.62	26.15	26.29
3090.0	30.24	30.62	30.80	25.78	26.43	26.56
3190.0	29.19	29.87	30.24	26.05	26.72	26.85
3270.0	28.44	29.29	29.78	26.35	26.92	27.02
3370.0	27.44	28.60	29.23	26.91	27.16	27.25
3450.0	26.56	27.85	28.56	27.54	27.55	27.48
3550.0	25.70	27.05	27.86	28.34	28.06	27.96
3630.0	25.32	26.45	27.35	29.06	28.27	28.20
3730.0	25.07	26.10	26.96	29.74	28.81	28.65

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
160.0	190.0	44.25	44.13	45.25
260.0	290.0	39.19	39.97	36.81
360.0	390.0	41.37	41.80	42.07
460.0	490.0	40.44	39.97	38.42
540.0	570.0	35.24	36.14	38.23
640.0	670.0	36.82	37.55	37.92
720.0	750.0	35.40	36.02	36.76
820.0	850.0	35.08	34.22	34.21
900.0	930.0	29.29	28.24	27.27
1000.0	1030.0	25.09	22.77	21.67
1080.0	1110.0	26.82	26.67	27.08
1180.0	1210.0	29.98	31.11	31.42
1260.0	1290.0	31.50	31.69	31.12
1360.0	1390.0	32.88	31.51	29.96
1440.0	1470.0	31.87	29.12	26.88
1540.0	1570.0	28.91	27.95	27.58
1620.0	1650.0	28.99	28.64	28.56
1720.0	1750.0	33.44	32.39	31.58
1800.0	1830.0	35.72	33.86	32.69
1900.0	1930.0	36.24	33.84	32.34
1980.0	2010.0	35.15	32.79	31.47
2080.0	2110.0	33.87	31.54	30.43
2160.0	2190.0	33.17	31.19	30.02
2260.0	2290.0	32.56	31.24	30.33
2340.0	2370.0	32.05	31.41	30.92
2440.0	2470.0	31.06	31.53	31.49
2520.0	2550.0	29.29	30.65	31.10
2620.0	2650.0	26.41	28.02	29.31
2700.0	2730.0	23.71	25.29	26.86
2800.0	2830.0	21.12	22.35	23.71
2880.0	2910.0	21.15	22.40	23.62
2980.0	3010.0	23.70	24.87	26.02
3060.0	3090.0	25.89	26.62	27.48
3160.0	3190.0	28.67	28.50	28.96
3240.0	3270.0	28.90	28.98	29.39
3340.0	3370.0	26.69	27.42	28.07
3420.0	3450.0	25.83	27.03	27.56
3520.0	3550.0	24.80	26.48	27.70
3600.0	3630.0	24.04	25.73	27.40
3700.0	3730.0	23.59	24.83	26.88

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3100MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
160.0	190.0	6.73	5.33	4.16	190.0	34.75	34.75	34.75	10.0	1.61	1.32	1.23
260.0	290.0	2.97	2.37	1.90	290.0	868.59	1737.18	1737.18	30.0	1.47	1.17	1.05
360.0	390.0	2.04	1.65	1.42	390.0	86.86	82.73	78.97	50.0	1.47	1.17	1.07
460.0	490.0	1.80	1.65	1.56	490.0	21.46	19.98	18.90	70.0	1.53	1.23	1.11
540.0	570.0	1.59	1.73	1.83	570.0	9.18	8.86	8.47	90.0	1.57	1.28	1.17
640.0	670.0	1.77	1.88	1.96	670.0	1.80	1.72	1.61	110.0	1.63	1.36	1.27
720.0	750.0	1.76	1.82	1.87	750.0	3.01	3.09	3.19	130.0	1.67	1.39	1.30
820.0	850.0	1.85	1.75	1.70	850.0	7.97	8.12	8.20	150.0	1.71	1.43	1.34
900.0	930.0	2.14	1.91	1.77	930.0	12.09	12.26	12.26	170.0	1.82	1.53	1.41
1000.0	1030.0	2.40	2.11	1.92	1030.0	15.26	15.39	15.39	190.0	1.89	1.61	1.49
1080.0	1110.0	2.80	2.35	2.03	1110.0	17.57	17.57	17.22	210.0	1.97	1.69	1.58
1180.0	1210.0	3.19	2.63	2.24	1210.0	18.50	18.30	17.75	230.0	2.03	1.73	1.60
1260.0	1290.0	3.41	2.82	2.40	1290.0	18.11	17.75	16.72	250.0	2.11	1.80	1.66
1360.0	1390.0	3.51	2.92	2.48	1390.0	17.39	16.89	15.96	270.0	2.24	1.92	1.76
1440.0	1470.0	3.37	2.75	2.31	1470.0	16.41	15.81	14.74	290.0	2.32	1.99	1.83
1540.0	1570.0	3.16	2.48	2.05	1570.0	15.13	14.62	13.60	310.0	2.41	2.06	1.90
1620.0	1650.0	2.87	2.26	1.88	1650.0	13.92	13.49	12.71	330.0	2.49	2.11	1.93
1720.0	1750.0	2.68	2.10	1.76	1750.0	12.44	12.09	11.38	350.0	2.60	2.21	2.01
1800.0	1830.0	2.42	1.90	1.61	1830.0	11.09	10.89	10.43	390.0	2.81	2.39	2.18
1900.0	1930.0	2.14	1.70	1.45	1930.0	9.69	9.43	8.99	410.0	2.91	2.46	2.24
1980.0	2010.0	1.93	1.55	1.33	2010.0	8.55	8.35	8.05	450.0	3.11	2.63	2.37
2080.0	2110.0	1.74	1.39	1.22	2110.0	6.97	6.78	6.56	470.0	3.22	2.73	2.46
2160.0	2190.0	1.64	1.33	1.17	2190.0	5.81	5.65	5.46	510.0	3.41	2.86	2.57
2260.0	2290.0	1.52	1.26	1.11	2290.0	4.37	4.20	4.04	530.0	3.51	2.93	2.61
2340.0	2370.0	1.47	1.22	1.09	2370.0	3.35	3.20	3.07	570.0	3.73	3.12	2.79
2440.0	2470.0	1.43	1.21	1.10	2470.0	2.32	2.22	2.14	590.0	3.77	3.15	2.81
2520.0	2550.0	1.45	1.24	1.14	2550.0	1.82	1.78	1.75	630.0	3.94	3.28	2.90
2620.0	2650.0	1.49	1.29	1.18	2650.0	1.78	1.82	1.86	650.0	4.02	3.36	2.98
2700.0	2730.0	1.54	1.34	1.21	2730.0	2.14	2.21	2.28	690.0	4.12	3.44	3.04
2800.0	2830.0	1.57	1.36	1.22	2830.0	2.72	2.79	2.84	710.0	4.19	3.50	3.09
2880.0	2910.0	1.55	1.31	1.19	2910.0	3.08	3.13	3.17	750.0	4.28	3.58	3.16
2980.0	3010.0	1.47	1.26	1.15	3010.0	3.48	3.54	3.58	770.0	4.33	3.62	3.21
3060.0	3090.0	1.46	1.25	1.14	3090.0	3.86	3.94	4.01	810.0	4.38	3.66	3.22
3160.0	3190.0	1.46	1.24	1.12	3190.0	4.37	4.50	4.56	830.0	4.38	3.67	3.22
3240.0	3270.0	1.53	1.29	1.14	3270.0	4.70	4.82	4.84	870.0	4.38	3.68	3.25
3340.0	3370.0	1.60	1.35	1.19	3370.0	5.09	5.20	5.22	890.0	4.35	3.65	3.21
3420.0	3450.0	1.68	1.44	1.27	3450.0	5.28	5.31	5.20	930.0	4.31	3.63	3.20
3520.0	3550.0	1.75	1.53	1.37	3550.0	5.47	5.44	5.28	950.0	4.27	3.60	3.18
3600.0	3630.0	1.74	1.56	1.45	3630.0	5.52	5.47	5.33	990.0	4.21	3.55	3.12
3700.0	3730.0	1.81	1.67	1.61	3730.0	5.54	5.44	5.25	1010.0	4.17	3.52	3.11

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	15	38	28	28	47	46	67	66	65
1	-	24	+0	29	18	35	31	38	63	45	62	72
2	58	48	57	54	61	58	64	62	54	73	73	>84
3	>90	74	58	72	51	65	58	70	69	68	>84	73
4	>90	>84	>84	>84	>84	81	>84	>84	>84	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	80	>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	>84	>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	>84	>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: 2250 MHz; 1.00 dBm.
LO IN: 2280 MHz; +17.00 dBm
IF OUT: 30 MHz; -6.22 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	26	54	39	38	58	59	81	90	89
1	-	24	+0	30	19	36	33	41	62	51	63	84
2	38	39	51	49	52	54	57	56	49	71	65	82
3	62	61	39	62	35	51	43	55	56	58	78	63
4	86	67	80	68	62	67	74	67	68	71	67	82
5	>90	85	68	75	59	67	51	64	58	70	71	68
6	>90	90	75	82	>94	>94	74	73	85	76	79	80
7	>90	91	>94	>94	82	82	72	73	63	73	68	83
8	>90	>94	>94	>94	86	93	>94	>94	82	82	93	85
9	>90	>94	>94	>94	>94	>94	>94	88	84	79	74	79
10	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	87	93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2250 MHz; 11.00 dBm.
LO IN: 2280 MHz; +17.00 dBm
IF OUT: 30 MHz; 3.51 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.