

Frequency Mixer

HJK-ED10827/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=458MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
390.1	848.1	12.00	10.26	8.57
420.1	878.1	11.66	10.02	8.46
450.1	908.1	11.23	9.80	8.43
480.1	938.1	10.88	9.57	8.35
510.1	968.1	10.58	9.35	8.20
540.1	998.1	10.22	9.09	8.07
570.1	1028.1	10.13	8.98	8.00
600.1	1058.1	10.21	8.89	7.93
630.1	1088.1	9.71	8.57	7.81
660.1	1118.1	9.27	8.37	7.74
690.1	1148.1	8.86	8.04	7.51
720.1	1178.1	8.31	7.61	7.27
750.1	1208.1	7.99	7.49	7.28
780.1	1238.1	7.70	7.35	7.24
810.1	1268.1	7.52	7.27	7.21
840.1	1298.1	7.47	7.26	7.19
870.1	1328.1	7.42	7.22	7.15
900.1	1358.1	7.44	7.23	7.16
930.1	1388.1	7.47	7.21	7.09
960.1	1418.1	7.59	7.28	7.10
990.1	1448.1	7.71	7.34	7.13
1020.1	1478.1	7.98	7.50	7.18
1050.1	1508.1	8.24	7.66	7.27
1080.1	1538.1	8.41	7.74	7.28
1110.1	1568.1	8.68	7.91	7.34
1140.1	1598.1	9.03	8.17	7.47
1170.1	1628.1	9.17	8.26	7.50
1200.1	1658.1	9.44	8.47	7.62
1230.1	1688.1	9.86	8.80	7.84
1260.1	1718.1	9.95	8.88	7.91
1290.1	1748.1	10.18	9.05	8.02
1320.1	1778.1	10.65	9.41	8.28
1350.1	1808.1	10.78	9.50	8.32
1380.1	1838.1	10.81	9.53	8.32
1410.1	1868.1	11.21	9.80	8.47
1440.1	1898.1	11.32	9.85	8.48
1470.1	1928.1	11.18	9.75	8.43
1500.1	1958.1	11.59	10.05	8.63
1520.1	1978.1	11.77	10.17	8.70
1550.1	2008.1	11.52	9.98	8.59

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
390.1	848.1	16.43	16.98	18.52
420.1	878.1	17.42	17.04	18.24
450.1	908.1	16.42	16.70	18.84
480.1	938.1	16.20	17.34	20.14
510.1	968.1	17.18	18.53	21.26
540.1	998.1	16.81	18.23	21.30
570.1	1028.1	16.36	17.93	21.36
600.1	1058.1	17.95	20.13	23.78
630.1	1088.1	19.79	23.06	26.08
660.1	1118.1	22.17	25.16	26.92
690.1	1148.1	23.28	24.55	27.00
720.1	1178.1	23.37	25.98	29.24
750.1	1208.1	24.36	27.22	29.91
780.1	1238.1	26.09	28.35	33.37
810.1	1268.1	27.25	29.57	38.00
840.1	1298.1	27.91	30.97	37.03
870.1	1328.1	28.91	32.16	37.06
900.1	1358.1	28.91	31.43	37.44
930.1	1388.1	28.67	30.25	35.81
960.1	1418.1	28.56	29.17	33.14
990.1	1448.1	27.96	28.63	31.23
1020.1	1478.1	27.47	28.34	30.01
1050.1	1508.1	27.41	28.12	29.26
1080.1	1538.1	27.38	27.88	28.97
1110.1	1568.1	28.17	27.87	28.65
1140.1	1598.1	29.99	28.28	28.49
1170.1	1628.1	30.07	28.55	28.55
1200.1	1658.1	29.59	29.62	29.33
1230.1	1688.1	27.28	29.55	29.65
1260.1	1718.1	24.81	27.81	29.88
1290.1	1748.1	23.98	27.10	30.53
1320.1	1778.1	23.03	26.27	29.37
1350.1	1808.1	23.05	26.14	29.12
1380.1	1838.1	23.64	26.90	29.29
1410.1	1868.1	24.32	27.26	28.91
1440.1	1898.1	25.63	27.96	28.95
1470.1	1928.1	26.50	28.64	29.15
1500.1	1958.1	29.11	28.49	29.06
1520.1	1978.1	30.54	28.62	29.00
1550.1	2008.1	32.22	27.69	28.73

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
390.1	848.1	2.57	2.11	1.80
420.1	878.1	2.45	1.94	1.55
450.1	908.1	2.67	1.77	1.21
480.1	938.1	2.94	1.81	1.08
510.1	968.1	2.71	1.60	0.93
540.1	998.1	2.78	1.59	0.83
570.1	1028.1	3.41	2.06	1.17
600.1	1058.1	1.44	1.47	1.16
630.1	1088.1	0.85	1.03	0.80
660.1	1118.1	0.64	0.70	0.59
690.1	1148.1	0.55	0.64	0.52
720.1	1178.1	0.73	0.63	0.34
750.1	1208.1	0.69	0.43	0.20
780.1	1238.1	0.51	0.27	0.10
810.1	1268.1	0.39	0.20	0.06
840.1	1298.1	0.32	0.16	0.07
870.1	1328.1	0.28	0.15	0.06
900.1	1358.1	0.26	0.15	0.05
930.1	1388.1	0.27	0.17	0.07
960.1	1418.1	0.34	0.22	0.12
990.1	1448.1	0.41	0.25	0.15
1020.1	1478.1	0.48	0.30	0.18
1050.1	1508.1	0.64	0.40	0.24
1080.1	1538.1	0.68	0.44	0.27
1110.1	1568.1	0.69	0.47	0.33
1140.1	1598.1	0.76	0.54	0.42
1170.1	1628.1	0.72	0.55	0.45
1200.1	1658.1	0.65	0.52	0.44
1230.1	1688.1	0.65	0.55	0.49
1260.1	1718.1	0.66	0.56	0.49
1290.1	1748.1	0.63	0.54	0.46
1320.1	1778.1	0.65	0.56	0.50
1350.1	1808.1	0.63	0.53	0.49
1380.1	1838.1	0.61	0.53	0.51
1410.1	1868.1	0.52	0.47	0.51
1440.1	1898.1	0.57	0.52	0.56
1470.1	1928.1	0.56	0.51	0.55
1500.1	1958.1	0.45	0.41	0.52
1520.1	1978.1	0.47	0.43	0.55
1550.1	2008.1	0.57	0.49	0.56

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=880.1MHz (dB)
		@LO (dBm)
		+17
40.0	840.1	10.74
38.8	841.4	10.72
37.5	842.6	10.71
36.3	843.9	10.68
35.0	845.1	10.71
33.8	846.4	10.70
32.5	847.6	10.68
31.3	848.9	10.67
30.0	850.1	10.66
28.8	851.4	10.65
27.5	852.6	10.63
26.3	853.9	10.63
25.0	855.1	10.61
23.8	856.4	10.61
22.5	857.6	10.59
21.3	858.9	10.59
20.0	860.1	10.60
18.8	861.4	10.60
17.5	862.6	10.58
16.3	863.9	10.58
13.8	866.4	10.64
12.5	867.6	10.69
10.0	870.1	10.89
10.0	890.1	10.66
87.5	967.6	9.44
126.3	1006.4	9.07
203.8	1083.9	8.52
242.5	1122.6	8.27
320.0	1200.1	7.48
358.8	1238.9	7.29
436.2	1316.4	7.23
475.0	1355.1	7.22
552.5	1432.6	7.47
591.3	1471.4	7.66
668.8	1548.9	8.15
707.5	1587.6	8.48
785.0	1665.1	9.18
823.8	1703.9	9.52
901.3	1781.4	10.29
940.0	1820.1	10.49

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=870.1MHz (dB)
		@LO (dBm)
		+17
10.0	880.1	10.81
30.0	900.1	10.02
50.0	920.1	9.81
70.0	940.1	9.72
90.0	960.1	9.53
110.0	980.1	9.33
130.0	1000.1	9.15
150.0	1020.1	8.95
170.0	1040.1	8.79
190.0	1060.1	8.61
210.0	1080.1	8.54
230.0	1100.1	8.46
250.0	1120.1	8.31
270.0	1140.1	8.05
290.0	1160.1	7.76
310.0	1180.1	7.59
330.0	1200.1	7.47
350.0	1220.1	7.39
370.0	1240.1	7.33
390.0	1260.1	7.24
410.0	1280.1	7.19
430.0	1300.1	7.23
450.0	1320.1	7.26
470.0	1340.1	7.26
510.0	1380.1	7.31
530.0	1400.1	7.34
570.0	1440.1	7.50
590.0	1460.1	7.63
630.0	1500.1	7.86
650.0	1520.1	7.97
690.0	1560.1	8.25
710.0	1580.1	8.42
750.0	1620.1	8.79
770.0	1640.1	8.95
810.0	1680.1	9.29
830.0	1700.1	9.51
870.0	1740.1	9.74
890.0	1760.1	10.05
930.0	1800.1	10.50
950.0	1820.1	10.43

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1210.1MHz (dB)
		@LO (dBm)
		+17
250.0	960.1	10.49
245.0	965.1	10.40
240.0	970.1	10.32
235.0	975.1	10.23
230.0	980.1	10.14
225.0	985.1	10.07
220.0	990.1	10.00
215.0	995.1	9.91
210.0	1000.1	9.79
205.0	1005.1	9.69
200.0	1010.1	9.61
195.0	1015.1	9.53
190.0	1020.1	9.46
185.0	1025.1	9.39
180.0	1030.1	9.30
175.0	1035.1	9.25
170.0	1040.1	9.18
165.0	1045.1	9.12
160.0	1050.1	9.04
155.0	1055.1	8.96
150.0	1060.1	8.88
145.0	1065.1	8.83
135.0	1075.1	8.70
130.0	1080.1	8.65
120.0	1090.1	8.55
115.0	1095.1	8.50
105.0	1105.1	8.42
100.0	1110.1	8.37
90.0	1120.1	8.26
85.0	1125.1	8.20
75.0	1135.1	8.10
70.0	1140.1	8.04
60.0	1150.1	7.94
55.0	1155.1	7.88
45.0	1165.1	7.74
40.0	1170.1	7.68
30.0	1180.1	7.64
25.0	1185.1	7.59
15.0	1195.1	7.67
10.0	1200.1	8.05

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
848.1	59.64	55.03	51.52	35.29	35.53	35.86
878.1	56.16	52.15	48.75	35.07	35.36	35.76
908.1	51.69	47.98	44.53	34.86	35.24	35.80
938.1	49.29	46.36	43.80	34.79	35.29	36.08
968.1	46.93	44.47	42.58	34.71	35.36	36.16
998.1	45.37	43.59	42.33	34.71	35.42	36.22
1028.1	44.09	42.76	41.90	34.67	35.35	36.16
1058.1	42.87	41.96	41.33	34.71	35.43	36.26
1088.1	41.98	41.54	41.19	34.92	35.73	36.67
1118.1	41.28	41.14	40.43	35.20	36.03	36.78
1148.1	39.67	39.20	38.29	35.22	35.83	36.34
1178.1	37.47	37.33	37.12	34.92	35.81	36.61
1208.1	35.08	35.35	35.48	34.80	36.04	37.08
1238.1	33.36	33.66	33.83	35.15	36.28	37.11
1268.1	32.38	32.84	33.12	35.46	36.33	36.77
1298.1	30.58	31.06	31.42	35.67	36.32	36.43
1328.1	30.18	30.84	31.40	36.52	36.99	36.95
1358.1	29.83	30.56	31.24	37.82	38.17	38.11
1388.1	29.66	30.36	31.13	39.50	39.63	39.53
1418.1	30.26	31.10	31.90	41.77	41.59	41.17
1448.1	30.49	31.34	32.14	44.66	43.92	43.18
1478.1	30.84	31.71	32.44	48.80	46.79	45.40
1508.1	31.49	32.45	33.21	55.93	50.34	47.67
1538.1	31.80	32.66	33.40	60.84	52.54	49.57
1568.1	32.43	33.32	34.08	51.66	50.98	49.81
1598.1	32.89	33.77	34.60	46.67	47.27	47.75
1628.1	33.12	33.98	34.80	43.37	44.14	45.07
1658.1	33.72	34.72	35.67	40.82	41.51	42.37
1688.1	33.64	34.61	35.58	38.70	39.26	39.89
1718.1	33.85	34.71	35.63	36.99	37.36	37.80
1748.1	34.11	35.00	36.02	35.47	35.65	35.81
1778.1	33.91	34.75	35.87	34.51	34.63	34.64
1808.1	33.87	34.90	36.36	33.79	33.90	33.79
1838.1	34.07	35.37	37.10	33.56	33.79	33.62
1868.1	33.75	35.08	36.76	33.75	34.19	34.08
1898.1	33.61	35.02	36.73	34.07	34.58	34.46
1928.1	33.81	35.36	37.07	34.87	35.29	34.99
1958.1	33.46	34.98	36.65	35.53	35.93	35.59
1978.1	33.40	34.97	36.71	35.90	36.17	35.73
2008.1	33.52	35.16	36.91	36.55	36.49	35.84

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
390.1	860.1	26.28	25.05	26.35
420.1	890.1	25.75	24.96	28.09
450.1	920.1	25.42	24.25	26.01
480.1	950.1	25.00	23.80	26.42
510.1	980.1	23.95	23.17	25.81
540.1	1010.1	23.33	23.16	25.87
570.1	1040.1	22.34	22.72	25.47
600.1	1070.1	21.43	22.35	24.89
630.1	1100.1	21.45	22.98	27.18
660.1	1130.1	22.72	25.68	32.41
690.1	1160.1	27.54	33.92	36.73
720.1	1190.1	33.70	38.12	38.72
750.1	1220.1	36.48	39.90	41.79
780.1	1250.1	36.43	40.66	44.66
810.1	1280.1	36.38	41.79	46.11
840.1	1310.1	36.45	42.25	47.95
870.1	1340.1	36.37	42.08	50.51
900.1	1370.1	35.47	39.89	46.84
930.1	1400.1	34.51	37.86	42.64
960.1	1430.1	33.78	36.39	39.22
990.1	1460.1	33.78	36.59	39.64
1020.1	1490.1	33.58	36.34	38.43
1050.1	1520.1	33.79	37.19	40.00
1080.1	1550.1	34.22	37.82	39.96
1110.1	1580.1	34.71	38.50	41.24
1140.1	1610.1	35.08	38.84	43.08
1170.1	1640.1	34.95	37.76	39.97
1200.1	1670.1	34.72	36.43	39.01
1230.1	1700.1	34.23	34.65	35.95
1260.1	1730.1	33.19	33.12	34.24
1290.1	1760.1	31.47	30.27	30.17
1320.1	1790.1	30.48	28.80	28.38
1350.1	1820.1	28.82	27.36	27.06
1380.1	1850.1	27.63	26.36	26.24
1410.1	1880.1	27.72	26.64	26.90
1440.1	1910.1	27.66	26.82	27.24
1470.1	1940.1	27.76	27.20	27.97
1500.1	1970.1	28.76	28.00	28.81
1520.1	1990.1	29.27	28.49	29.36
1550.1	2020.1	29.64	29.02	29.88

Frequency Mixer

HJK-ED10827/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=1348MHz (:1)		
		@LO (dBm)				@LO (dBm)					@LO (dBm)		
		+14	+17	+20		+14	+17	+20	+14		+17	+20	
390.1	860.1	2.35	1.78	1.27	848.1	34.75	34.07	32.79	10.0	1.48	1.70	1.90	
420.1	890.1	2.21	1.66	1.18	878.1	31.03	29.96	28.03	50.0	1.50	1.73	1.93	
450.1	920.1	2.14	1.61	1.16	908.1	29.96	28.96	27.16	90.0	1.49	1.70	1.90	
480.1	950.1	2.12	1.58	1.19	938.1	29.46	28.49	27.59	130.0	1.50	1.70	1.88	
510.1	980.1	1.99	1.50	1.21	968.1	26.33	25.19	23.81	170.0	1.50	1.68	1.84	
540.1	1010.1	1.89	1.46	1.25	998.1	24.14	23.18	22.00	210.0	1.51	1.66	1.81	
570.1	1040.1	1.89	1.46	1.28	1028.1	22.87	22.29	21.20	250.0	1.56	1.70	1.84	
600.1	1070.1	1.91	1.46	1.30	1058.1	19.32	18.50	17.39	290.0	1.59	1.69	1.82	
630.1	1100.1	1.85	1.47	1.35	1088.1	15.81	15.13	14.15	330.0	1.69	1.77	1.88	
660.1	1130.1	1.80	1.47	1.39	1118.1	13.29	12.61	11.93	370.0	1.72	1.76	1.84	
690.1	1160.1	1.69	1.44	1.41	1148.1	10.56	10.02	9.43	410.0	1.80	1.80	1.85	
720.1	1190.1	1.64	1.46	1.50	1178.1	8.16	7.63	7.08	450.0	1.81	1.78	1.82	
750.1	1220.1	1.62	1.51	1.59	1208.1	6.17	5.68	5.20	490.0	1.92	1.85	1.86	
780.1	1250.1	1.54	1.50	1.60	1238.1	4.24	3.83	3.44	530.0	1.98	1.90	1.90	
810.1	1280.1	1.53	1.54	1.64	1268.1	2.71	2.42	2.15	570.0	2.08	1.96	1.93	
840.1	1310.1	1.58	1.58	1.67	1298.1	1.70	1.53	1.39	590.0	2.14	2.01	1.96	
870.1	1340.1	1.57	1.55	1.61	1328.1	1.26	1.33	1.46	630.0	2.15	2.01	1.95	
900.1	1370.1	1.58	1.54	1.59	1358.1	1.74	1.95	2.18	650.0	2.24	2.08	2.00	
930.1	1400.1	1.67	1.60	1.61	1388.1	2.56	2.83	3.13	690.0	2.35	2.17	2.08	
960.1	1430.1	1.76	1.62	1.58	1418.1	3.59	3.95	4.33	710.0	2.39	2.21	2.11	
990.1	1460.1	1.79	1.61	1.55	1448.1	4.87	5.30	5.74	750.0	2.45	2.24	2.12	
1020.1	1490.1	1.93	1.69	1.59	1478.1	6.05	6.51	6.89	770.0	2.49	2.28	2.16	
1050.1	1520.1	2.08	1.77	1.62	1508.1	7.34	7.87	8.27	810.0	2.52	2.31	2.18	
1080.1	1550.1	2.12	1.78	1.59	1538.1	8.77	9.33	9.74	830.0	2.49	2.27	2.14	
1110.1	1580.1	2.24	1.87	1.64	1568.1	9.69	10.07	10.25	870.0	2.62	2.40	2.25	
1140.1	1610.1	2.44	2.01	1.72	1598.1	10.69	11.03	11.09	890.0	2.65	2.42	2.27	
1170.1	1640.1	2.48	2.03	1.72	1628.1	12.09	12.52	12.71	930.0	2.61	2.38	2.22	
1200.1	1670.1	2.55	2.08	1.75	1658.1	12.99	13.29	13.09	950.0	2.69	2.44	2.28	
1230.1	1700.1	2.73	2.21	1.83	1688.1	13.60	13.70	13.19	990.0	2.69	2.45	2.28	
1260.1	1730.1	2.74	2.20	1.80	1718.1	14.74	14.87	14.74	1010.0	2.64	2.40	2.24	
1290.1	1760.1	2.75	2.20	1.79	1748.1	15.00	15.00	14.62	1050.0	2.72	2.47	2.30	
1320.1	1790.1	2.89	2.28	1.84	1778.1	14.26	14.15	13.29	1070.0	2.70	2.45	2.28	
1350.1	1820.1	2.94	2.31	1.85	1808.1	14.87	14.87	14.50	1110.0	2.60	2.37	2.21	
1380.1	1850.1	2.92	2.27	1.81	1838.1	15.13	15.26	14.87	1130.0	2.63	2.40	2.23	
1410.1	1880.1	3.06	2.36	1.86	1868.1	14.87	14.74	13.92	1170.0	2.59	2.38	2.23	
1440.1	1910.1	3.13	2.40	1.87	1898.1	15.96	15.96	15.26	1190.0	2.52	2.32	2.19	
1470.1	1940.1	3.02	2.31	1.80	1928.1	16.89	17.05	16.56	1230.0	2.42	2.25	2.14	
1500.1	1970.1	3.14	2.39	1.83	1958.1	15.96	15.81	14.74	1250.0	2.35	2.22	2.12	
1520.1	1990.1	3.18	2.41	1.84	1978.1	15.67	15.26	14.15	1290.0	2.11	2.04	2.02	
1550.1	2020.1	3.05	2.33	1.77	2008.1	16.41	16.41	15.67	1310.0	1.92	1.89	1.90	

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	21	31	29	32	35	36	36	39	68
1	-	17	+0	27	20	27	29	37	47	43	46	46
2	64	44	49	46	59	52	64	55	83	78	68	71
3	>90	65	64	54	54	60	68	59	73	74	70	71
4	>90	>83	80	82	78	81	>83	>83	>83	>83	>83	>83
5	>90	>83	81	81	76	76	80	81	>83	82	>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: 870 MHz; 2.00 dBm.
LO IN: 1338 MHz; +17.00 dBm
IF OUT: 468 MHz; -6.74 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	32	37	42	41	43	49	50	47	51
1	-	19	+0	26	21	27	32	37	53	45	57	42
2	44	34	41	38	57	44	64	47	61	60	58	65
3	70	54	39	38	38	47	50	57	56	60	60	64
4	>90	66	70	69	65	61	63	66	71	74	70	76
5	>90	64	73	57	56	55	58	61	62	76	73	73
6	>90	89	90	81	87	84	88	81	79	79	90	79
7	>90	74	78	89	72	70	71	69	81	73	82	82
8	>90	>93	>93	91	90	>93	79	86	84	86	81	90
9	>90	>93	82	79	82	80	78	75	84	79	86	83
10	>90	>93	>93	90	>93	>93	89	89	86	87	93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 870 MHz; 12.00 dBm.
LO IN: 1338 MHz; +17.00 dBm
IF OUT: 468 MHz; 3.21 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.