

Frequency Mixer

HJK-ED11556A

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=57.6MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+13	+15	+17			+13	+15	+17			+13	+15	+17
800.0	857.6	8.24	8.21	8.15	800.0	857.6	27.37	22.95	21.28	800.0	857.6	0.17	0.10	0.17
805.0	862.6	8.20	8.16	8.10	805.0	862.6	27.73	22.72	21.37	805.0	862.6	0.14	0.10	0.17
810.0	867.6	8.14	8.10	8.03	810.0	867.6	27.76	22.83	21.31	810.0	867.6	0.12	0.11	0.18
815.0	872.6	8.08	8.04	7.98	815.0	872.6	27.33	22.92	21.20	815.0	872.6	0.12	0.11	0.18
820.0	877.6	8.04	8.01	7.95	820.0	877.6	26.68	23.10	21.18	820.0	877.6	0.12	0.12	0.18
825.0	882.6	8.02	8.00	7.95	825.0	882.6	26.35	23.42	21.37	825.0	882.6	0.12	0.13	0.18
830.0	887.6	8.04	8.02	7.98	830.0	887.6	26.36	23.78	21.68	830.0	887.6	0.13	0.13	0.18
835.0	892.6	8.06	8.05	8.02	835.0	892.6	26.61	24.19	22.07	835.0	892.6	0.14	0.14	0.18
840.0	897.6	8.08	8.07	8.05	840.0	897.6	26.97	24.61	22.37	840.0	897.6	0.14	0.15	0.19
845.0	902.6	8.09	8.08	8.07	845.0	902.6	27.26	24.87	22.63	845.0	902.6	0.14	0.15	0.19
850.0	907.6	8.07	8.07	8.06	850.0	907.6	27.45	25.09	22.82	850.0	907.6	0.14	0.15	0.19
855.0	912.6	8.05	8.05	8.05	855.0	912.6	27.51	24.91	22.82	855.0	912.6	0.15	0.16	0.20
860.0	917.6	8.02	8.03	8.03	860.0	917.6	27.51	24.81	22.89	860.0	917.6	0.15	0.16	0.22
865.0	922.6	7.99	8.00	8.01	865.0	922.6	27.56	24.90	22.86	865.0	922.6	0.15	0.16	0.21
870.0	927.6	7.98	7.99	8.00	870.0	927.6	27.75	25.33	22.87	870.0	927.6	0.15	0.16	0.20
875.0	932.6	7.99	8.01	8.02	875.0	932.6	27.92	26.00	23.11	875.0	932.6	0.15	0.15	0.19
880.0	937.6	8.01	8.03	8.05	880.0	937.6	28.14	26.87	23.98	880.0	937.6	0.14	0.14	0.17
885.0	942.6	8.01	8.04	8.06	885.0	942.6	28.60	27.66	25.03	885.0	942.6	0.14	0.13	0.15
890.0	947.6	8.00	8.04	8.06	890.0	947.6	28.96	28.22	25.87	890.0	947.6	0.14	0.12	0.13
895.0	952.6	7.98	8.02	8.05	895.0	952.6	29.21	28.70	26.57	895.0	952.6	0.14	0.12	0.12
900.0	957.6	7.94	7.98	8.02	900.0	957.6	29.46	29.21	26.95	900.0	957.6	0.14	0.12	0.12
905.0	962.6	7.92	7.96	8.00	905.0	962.6	29.53	29.25	26.89	905.0	962.6	0.14	0.12	0.12
910.0	967.6	7.90	7.95	7.99	910.0	967.6	29.20	29.14	26.75	910.0	967.6	0.14	0.12	0.13
915.0	972.6	7.88	7.93	7.97	915.0	972.6	28.92	29.10	26.82	915.0	972.6	0.15	0.13	0.13
920.0	977.6	7.89	7.94	7.98	920.0	977.6	28.45	29.07	27.36	920.0	977.6	0.16	0.13	0.12
925.0	982.6	7.92	7.95	8.00	925.0	982.6	27.99	29.00	28.21	925.0	982.6	0.17	0.14	0.12
930.0	987.6	7.93	7.96	8.00	930.0	987.6	27.34	28.66	29.03	930.0	987.6	0.19	0.15	0.12
935.0	992.6	7.92	7.96	8.00	935.0	992.6	26.70	28.26	29.32	935.0	992.6	0.22	0.17	0.13
940.0	997.6	7.92	7.97	8.00	940.0	997.6	26.00	27.61	29.02	940.0	997.6	0.25	0.18	0.14
945.0	1002.6	7.91	7.96	7.99	945.0	1002.6	25.85	27.57	28.97	945.0	1002.6	0.27	0.19	0.16
950.0	1007.6	7.90	7.94	7.97	950.0	1007.6	25.90	27.54	28.89	950.0	1007.6	0.27	0.19	0.15
955.0	1012.6	7.92	7.96	7.98	955.0	1012.6	26.03	27.61	29.05	955.0	1012.6	0.26	0.18	0.15
960.0	1017.6	7.93	7.97	8.00	960.0	1017.6	26.32	28.00	29.56	960.0	1017.6	0.24	0.17	0.14
965.0	1022.6	7.95	7.99	8.02	965.0	1022.6	26.54	28.30	29.66	965.0	1022.6	0.22	0.15	0.13
970.0	1027.6	7.99	8.03	8.05	970.0	1027.6	26.73	28.35	29.71	970.0	1027.6	0.22	0.15	0.12
975.0	1032.6	8.01	8.05	8.08	975.0	1032.6	26.41	28.07	29.61	975.0	1032.6	0.23	0.16	0.13
980.0	1037.6	8.01	8.05	8.09	980.0	1037.6	26.19	27.70	29.34	980.0	1037.6	0.25	0.17	0.13
985.0	1042.6	8.03	8.06	8.10	985.0	1042.6	25.69	27.24	28.99	985.0	1042.6	0.27	0.19	0.13
990.0	1047.6	8.02	8.04	8.08	990.0	1047.6	24.99	26.76	28.36	990.0	1047.6	0.30	0.21	0.15
995.0	1052.6	8.01	8.02	8.05	995.0	1052.6	24.31	26.47	27.90	995.0	1052.6	0.32	0.22	0.15
1000.0	1057.6	8.00	8.00	8.03	1000.0	1057.6	23.84	26.05	27.61	1000.0	1057.6	0.34	0.23	0.16

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)=881.5MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=864.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=899.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+15			+15			+15
411.5	470.0	11.05	10.0	874.1	8.37	430.0	469.1	11.07
384.7	496.8	9.68	30.0	894.1	8.12	420.0	479.1	10.35
358.0	523.5	9.15	50.0	914.1	8.06	410.0	489.1	9.78
331.2	550.3	8.66	70.0	934.1	8.08	400.0	499.1	9.65
304.4	577.1	8.52	90.0	954.1	7.99	390.0	509.1	9.57
277.7	603.8	8.31	110.0	974.1	8.00	380.0	519.1	9.30
250.9	630.6	8.21	130.0	994.1	7.85	370.0	529.1	8.98
237.5	644.0	8.04	150.0	1014.1	7.89	360.0	539.1	8.75
210.8	670.8	7.93	170.0	1034.1	7.98	350.0	549.1	8.72
197.4	684.1	7.97	190.0	1054.1	7.95	340.0	559.1	8.63
170.6	710.9	7.87	210.0	1074.1	7.99	330.0	569.1	8.65
157.2	724.3	7.84	230.0	1094.1	7.97	320.0	579.1	8.49
130.5	751.1	7.79	250.0	1114.1	7.99	310.0	589.1	8.38
117.1	764.4	7.69	270.0	1134.1	8.02	300.0	599.1	8.32
90.3	791.2	7.67	290.0	1154.1	8.07	290.0	609.1	8.23
76.9	804.6	7.79	310.0	1174.1	8.12	280.0	619.1	8.29
50.2	831.4	7.98	330.0	1194.1	8.14	270.0	629.1	8.18
36.8	844.7	8.30	350.0	1214.1	8.18	260.0	639.1	8.10
10.0	871.5	8.39	370.0	1234.1	8.18	250.0	649.1	8.02
10.0	891.5	8.41	390.0	1254.1	8.13	240.0	659.1	8.02
64.6	946.1	8.04	410.0	1274.1	8.28	230.0	669.1	8.09
91.9	973.4	7.97	430.0	1294.1	8.36	220.0	679.1	7.85
146.4	1027.9	7.92	450.0	1314.1	8.43	210.0	689.1	7.85
173.7	1055.2	7.86	470.0	1334.1	8.48	200.0	699.1	7.84
228.3	1109.8	7.99	490.0	1354.1	8.49	190.0	709.1	7.86
255.6	1137.0	8.04	510.0	1374.1	8.60	180.0	719.1	7.85
310.1	1191.6	8.10	530.0	1394.1	8.61	170.0	729.1	7.77
337.4	1218.9	8.13	550.0	1414.1	8.68	160.0	739.1	7.78
392.0	1273.5	8.28	570.0	1434.1	8.74	150.0	749.1	7.70
419.2	1300.8	8.38	590.0	1454.1	8.74	140.0	759.1	7.77
473.8	1355.3	8.48	610.0	1474.1	8.85	130.0	769.1	7.72
501.1	1382.6	8.61	630.0	1494.1	8.85	120.0	779.1	7.67
555.7	1437.2	8.73	650.0	1514.1	8.85	110.0	789.1	7.71
583.0	1464.5	8.76	670.0	1534.1	8.99	100.0	799.1	7.70
637.5	1519.0	8.86	710.0	1574.1	8.99	80.0	819.1	7.80
664.8	1546.3	8.97	730.0	1594.1	9.07	70.0	829.1	7.96
719.4	1600.9	9.04	770.0	1634.1	9.16	50.0	849.1	8.19
746.7	1628.2	9.10	790.0	1654.1	9.23	40.0	859.1	8.18
801.2	1682.7	9.48	830.0	1694.1	9.98	20.0	879.1	8.09
828.5	1710.0	11.25	850.0	1714.1	11.25	10.0	889.1	8.22

Frequency Mixer

HJK-ED11556A

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+13	+15	+17	+13	+15	+17
857.6	42.66	41.22	41.58	34.09	35.16	36.60
862.6	41.64	40.95	41.52	33.41	34.53	36.10
867.6	41.44	40.62	41.47	32.39	33.72	35.35
872.6	41.52	40.76	41.56	31.41	32.90	34.52
877.6	41.66	41.06	41.81	30.66	32.26	33.84
882.6	41.90	41.42	42.11	30.19	31.80	33.34
887.6	42.17	41.81	42.45	29.82	31.42	32.93
892.6	42.49	42.23	42.82	29.47	31.06	32.57
897.6	42.88	42.64	43.23	29.20	30.76	32.31
902.6	43.19	43.00	43.59	29.04	30.66	32.23
907.6	43.62	43.42	43.95	29.02	30.71	32.30
912.6	44.08	43.84	44.34	29.00	30.75	32.38
917.6	44.71	44.37	44.77	28.92	30.68	32.33
922.6	45.51	44.99	45.23	28.79	30.50	32.14
927.6	46.43	45.72	45.69	28.62	30.29	31.86
932.6	47.56	46.65	46.22	28.37	30.02	31.50
937.6	48.89	47.68	46.63	28.00	29.59	31.03
942.6	50.32	48.64	47.31	27.64	29.17	30.65
947.6	51.76	49.55	47.77	27.40	28.90	30.38
952.6	52.78	50.31	48.12	27.34	28.84	30.30
957.6	53.14	50.77	48.27	27.47	28.90	30.35
962.6	53.04	50.91	48.26	27.67	29.05	30.49
967.6	52.69	51.00	48.24	27.87	29.21	30.61
972.6	52.26	51.16	48.42	28.05	29.31	30.66
977.6	52.11	51.37	48.88	28.12	29.30	30.64
982.6	51.60	51.47	49.59	28.17	29.17	30.43
987.6	51.48	51.31	50.45	28.25	28.98	30.11
992.6	51.29	51.17	50.72	28.29	28.82	29.78
997.6	50.96	50.77	50.42	28.36	28.86	29.59
1002.6	50.45	50.18	49.84	28.55	29.00	29.63
1007.6	49.84	49.51	49.18	28.76	29.17	29.77
1012.6	49.45	49.09	48.69	28.98	29.40	29.97
1017.6	49.31	48.89	48.41	29.23	29.65	30.23
1022.6	49.08	48.66	48.19	29.50	29.92	30.50
1027.6	48.71	48.38	47.92	29.75	30.17	30.73
1032.6	48.35	48.16	47.68	29.92	30.34	30.83
1037.6	47.94	47.93	47.59	30.00	30.40	30.80
1042.6	47.49	47.66	47.32	30.06	30.41	30.79
1047.6	47.00	47.29	47.09	30.14	30.46	30.81
1052.6	46.55	46.88	46.79	30.25	30.56	30.88
1057.6	46.16	46.49	46.46	30.34	30.63	30.94

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+13	+15	+17
800.0	857.6	32.46	33.43	34.36
805.0	862.6	32.87	33.76	34.67
810.0	867.6	33.43	34.22	35.14
815.0	872.6	33.84	34.48	35.42
820.0	877.6	34.10	34.61	35.53
825.0	882.6	34.49	34.92	35.76
830.0	887.6	35.06	35.43	36.16
835.0	892.6	35.65	35.95	36.55
840.0	897.6	36.11	36.35	36.93
845.0	902.6	36.45	36.71	37.27
850.0	907.6	36.79	37.04	37.58
855.0	912.6	37.20	37.42	37.96
860.0	917.6	37.58	37.77	38.32
865.0	922.6	37.73	37.95	38.48
870.0	927.6	37.86	38.02	38.47
875.0	932.6	38.00	38.15	38.51
880.0	937.6	37.97	38.17	38.34
885.0	942.6	37.60	37.92	38.01
890.0	947.6	37.11	37.66	37.69
895.0	952.6	36.66	37.46	37.57
900.0	957.6	36.45	37.43	37.60
905.0	962.6	36.37	37.40	37.59
910.0	967.6	36.31	37.32	37.58
915.0	972.6	36.18	37.22	37.54
920.0	977.6	36.11	37.10	37.64
925.0	982.6	36.27	36.91	37.75
930.0	987.6	36.07	36.65	37.73
935.0	992.6	36.04	36.53	37.32
940.0	997.6	35.80	35.94	36.69
945.0	1002.6	35.58	35.64	36.08
950.0	1007.6	35.59	35.57	35.85
955.0	1012.6	35.71	35.65	35.89
960.0	1017.6	35.77	35.73	36.03
965.0	1022.6	35.83	35.85	36.22
970.0	1027.6	35.97	36.07	36.50
975.0	1032.6	36.17	36.30	36.95
980.0	1037.6	36.29	36.47	36.99
985.0	1042.6	36.38	36.50	37.09
990.0	1047.6	36.22	36.32	36.90
995.0	1052.6	35.98	36.02	36.37
1000.0	1057.6	35.78	35.77	35.92

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=952MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+13	+15	+17		+13	+15	+17		+13	+15	+17
800.0	857.6	2.52	2.52	2.52	857.6	5.04	4.15	4.24	10.0	1.90	1.93	1.96
805.0	862.6	2.52	2.52	2.52	862.6	4.36	3.75	4.01	30.0	1.89	1.92	1.94
810.0	867.6	2.51	2.52	2.51	867.6	3.74	3.44	3.76	50.0	1.92	1.95	1.97
815.0	872.6	2.51	2.51	2.50	872.6	3.25	3.16	3.54	70.0	1.86	1.89	1.91
820.0	877.6	2.51	2.51	2.50	877.6	2.84	2.92	3.37	90.0	1.90	1.93	1.95
825.0	882.6	2.50	2.50	2.49	882.6	2.52	2.75	3.24	110.0	1.89	1.92	1.94
830.0	887.6	2.50	2.51	2.50	887.6	2.30	2.65	3.17	130.0	1.95	1.98	2.00
835.0	892.6	2.50	2.50	2.49	892.6	2.18	2.61	3.17	150.0	1.94	1.97	1.99
840.0	897.6	2.50	2.50	2.50	897.6	2.15	2.65	3.24	170.0	1.92	1.95	1.97
845.0	902.6	2.50	2.50	2.50	902.6	2.20	2.75	3.39	190.0	1.99	2.02	2.04
850.0	907.6	2.50	2.50	2.50	907.6	2.32	2.93	3.60	210.0	1.97	2.00	2.03
855.0	912.6	2.49	2.49	2.49	912.6	2.52	3.16	3.87	230.0	2.04	2.07	2.10
860.0	917.6	2.49	2.49	2.49	917.6	2.75	3.40	4.14	250.0	2.01	2.04	2.07
865.0	922.6	2.48	2.48	2.48	922.6	2.99	3.61	4.36	270.0	2.04	2.07	2.10
870.0	927.6	2.48	2.49	2.49	927.6	3.24	3.80	4.51	290.0	2.08	2.10	2.13
875.0	932.6	2.48	2.48	2.48	932.6	3.51	3.96	4.62	310.0	2.10	2.13	2.15
880.0	937.6	2.48	2.49	2.49	937.6	3.85	4.18	4.72	330.0	2.16	2.18	2.21
885.0	942.6	2.47	2.47	2.48	942.6	4.31	4.48	4.91	350.0	2.11	2.13	2.16
890.0	947.6	2.46	2.48	2.48	947.6	4.89	4.89	5.19	370.0	2.18	2.20	2.23
895.0	952.6	2.45	2.46	2.47	952.6	5.63	5.42	5.58	390.0	2.20	2.22	2.24
900.0	957.6	2.46	2.47	2.48	957.6	6.42	6.01	6.01	410.0	2.24	2.25	2.28
905.0	962.6	2.45	2.47	2.48	962.6	7.25	6.63	6.49	430.0	2.24	2.26	2.28
910.0	967.6	2.46	2.48	2.48	967.6	8.08	7.25	6.97	450.0	2.22	2.24	2.26
915.0	972.6	2.46	2.47	2.48	972.6	8.99	7.97	7.47	470.0	2.30	2.32	2.34
920.0	977.6	2.46	2.47	2.48	977.6	10.02	8.81	8.01	490.0	2.29	2.30	2.32
925.0	982.6	2.45	2.46	2.47	982.6	11.17	10.07	8.77	510.0	2.34	2.35	2.36
930.0	987.6	2.45	2.46	2.48	987.6	11.85	11.46	9.79	530.0	2.30	2.31	2.32
935.0	992.6	2.43	2.45	2.46	992.6	12.44	12.61	11.09	550.0	2.32	2.33	2.34
940.0	997.6	2.43	2.45	2.46	997.6	13.19	13.49	12.44	570.0	2.38	2.38	2.39
945.0	1002.6	2.43	2.44	2.46	1002.6	13.92	14.26	13.49	590.0	2.34	2.35	2.36
950.0	1007.6	2.44	2.46	2.47	1007.6	14.74	15.13	14.50	610.0	2.36	2.36	2.37
955.0	1012.6	2.44	2.45	2.46	1012.6	15.67	15.96	15.26	630.0	2.33	2.33	2.34
960.0	1017.6	2.45	2.47	2.48	1017.6	16.72	17.05	15.96	650.0	2.38	2.38	2.38
965.0	1022.6	2.44	2.45	2.46	1022.6	17.93	18.11	16.72	670.0	2.36	2.36	2.37
970.0	1027.6	2.45	2.46	2.48	1027.6	18.90	19.11	17.57	690.0	2.34	2.34	2.34
975.0	1032.6	2.43	2.45	2.46	1032.6	19.76	19.98	18.90	710.0	2.35	2.35	2.36
980.0	1037.6	2.44	2.45	2.47	1037.6	20.70	20.95	20.45	730.0	2.31	2.31	2.31
985.0	1042.6	2.42	2.43	2.44	1042.6	21.46	21.73	21.73	750.0	2.35	2.34	2.35
990.0	1047.6	2.43	2.44	2.45	1047.6	22.29	22.29	22.29	770.0	2.29	2.29	2.29
995.0	1052.6	2.41	2.42	2.43	1052.6	22.87	22.87	22.87	790.0	2.31	2.31	2.30
1000.0	1057.6	2.43	2.44	2.45	1057.6	23.81	23.49	23.18	810.0	2.29	2.28	2.27

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	14	18	25	21	36	22	31	33	33
1	-	28	+0	32	19	35	31	36	31	40	38	46
2	68	57	64	51	47	58	50	69	51	63	56	65
3	>90	>82	73	>82	74	>82	78	>82	80	>82	81	>82
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 881.5 MHz; 0.00 dBm.
LO IN: 939.1 MHz; +15.00 dBm
IF OUT: 57.6 MHz; -8.04 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	23	30	38	32	43	33	41	44	45
1	-	27	+0	31	19	35	32	36	31	41	38	46
2	48	47	51	41	37	48	40	61	41	53	47	57
3	76	69	53	72	54	68	58	69	61	66	60	66
4	>90	>92	82	87	76	88	74	89	74	77	73	77
5	>90	>92	91	>92	85	>92	85	>92	89	>92	>92	>92
6	>90	>92	>92	>92	>92	>92	91	>92	90	>92	>92	>92
7	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 881.5 MHz; 10.00 dBm.
LO IN: 939.1 MHz; +15.00 dBm
IF OUT: 57.6 MHz; 1.9 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.