

Frequency Mixer

HJK-ED12243/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=76.1MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
40.0	116.1	12.89	10.56	8.27	40.0	116.1	11.10	11.35	12.38	40.0	116.1	9.49	9.49	8.79
80.0	156.1	11.05	8.93	7.42	80.0	156.1	11.64	12.04	13.70	80.0	156.1	9.62	9.31	8.17
120.0	196.1	9.74	8.01	6.97	120.0	196.1	11.57	12.34	14.78	120.0	196.1	9.95	9.28	7.57
160.0	236.1	8.17	7.12	6.54	160.0	236.1	12.33	13.76	16.90	160.0	236.1	9.71	8.22	6.00
200.0	276.1	7.86	7.02	6.63	200.0	276.1	12.38	14.41	18.47	200.0	276.1	9.62	8.12	5.79
240.0	316.1	6.91	6.47	6.25	240.0	316.1	13.93	17.76	21.51	240.0	316.1	8.79	6.34	3.81
280.0	356.1	6.79	6.46	6.27	280.0	356.1	15.04	18.68	21.06	280.0	356.1	7.15	5.18	3.06
320.0	396.1	6.41	6.19	6.12	320.0	396.1	15.64	18.77	23.98	320.0	396.1	6.28	4.35	2.23
360.0	436.1	7.23	6.87	6.32	360.0	436.1	14.03	14.85	17.51	360.0	436.1	5.25	3.81	3.07
400.0	476.1	8.55	8.47	8.31	400.0	476.1	18.49	21.20	23.42	400.0	476.1	2.98	1.99	1.33
440.0	516.1	7.81	7.80	7.70	440.0	516.1	22.24	24.41	26.49	440.0	516.1	2.17	1.17	0.55
480.0	556.1	7.52	7.52	7.45	480.0	556.1	24.37	26.60	28.29	480.0	556.1	1.34	0.55	0.31
520.0	596.1	7.17	7.17	7.16	520.0	596.1	26.11	28.04	30.07	520.0	596.1	0.56	0.28	0.18
560.0	636.1	7.27	7.29	7.34	560.0	636.1	28.28	30.44	31.05	560.0	636.1	0.33	0.18	0.18
600.0	676.1	7.06	7.08	7.18	600.0	676.1	30.86	33.61	30.23	600.0	676.1	0.20	0.14	0.17
640.0	716.1	7.20	7.22	7.25	640.0	716.1	31.73	34.72	29.73	640.0	716.1	0.19	0.12	0.15
680.0	756.1	7.15	7.17	7.18	680.0	756.1	30.60	33.90	35.32	680.0	756.1	0.27	0.14	0.11
720.0	796.1	7.19	7.19	7.18	720.0	796.1	28.55	31.19	33.41	720.0	796.1	0.39	0.21	0.14
760.0	836.1	7.47	7.46	7.42	760.0	836.1	26.91	29.33	31.82	760.0	836.1	0.57	0.31	0.18
800.0	876.1	7.64	7.61	7.54	800.0	876.1	24.89	26.54	28.43	800.0	876.1	0.84	0.44	0.28
840.0	916.1	7.72	7.67	7.60	840.0	916.1	25.36	27.95	30.04	840.0	916.1	1.32	0.58	0.28
880.0	956.1	7.76	7.71	7.62	880.0	956.1	25.14	27.98	29.95	880.0	956.1	1.96	0.72	0.31
920.0	996.1	7.86	7.81	7.71	920.0	996.1	23.49	26.16	28.08	920.0	996.1	1.90	0.72	0.34
980.0	1056.1	8.09	8.03	7.91	980.0	1056.1	21.50	23.92	25.77	980.0	1056.1	2.41	1.07	0.49
1020.0	1096.1	8.30	8.22	8.09	1020.0	1096.1	20.64	22.90	24.78	1020.0	1096.1	2.75	1.33	0.62
1080.0	1156.1	8.57	8.48	8.32	1080.0	1156.1	19.98	21.95	23.65	1080.0	1156.1	3.01	1.52	0.76
1120.0	1196.1	8.67	8.55	8.38	1120.0	1196.1	19.53	21.36	23.05	1120.0	1196.1	3.23	1.70	0.87
1180.0	1256.1	8.94	8.80	8.63	1180.0	1256.1	19.52	21.25	22.97	1180.0	1256.1	3.26	1.72	0.93
1220.0	1296.1	9.01	8.86	8.67	1220.0	1296.1	19.31	20.99	22.72	1220.0	1296.1	3.57	1.97	1.02
1280.0	1356.1	9.25	9.09	8.90	1280.0	1356.1	19.36	20.98	22.40	1280.0	1356.1	3.56	1.95	1.01
1320.0	1396.1	9.25	9.07	8.87	1320.0	1396.1	19.09	20.65	22.12	1320.0	1396.1	3.91	2.21	1.13
1380.0	1456.1	9.43	9.24	9.03	1380.0	1456.1	19.13	20.74	22.44	1380.0	1456.1	3.76	2.08	1.08
1420.0	1496.1	9.48	9.28	9.05	1420.0	1496.1	18.90	20.58	22.45	1420.0	1496.1	4.03	2.31	1.21
1480.0	1556.1	9.61	9.41	9.21	1480.0	1556.1	19.28	21.23	23.81	1480.0	1556.1	4.00	2.29	1.17
1520.0	1596.1	9.67	9.48	9.30	1520.0	1596.1	19.25	21.62	25.16	1520.0	1596.1	4.18	2.42	1.17
1580.0	1656.1	9.65	9.44	9.21	1580.0	1656.1	19.36	21.65	24.30	1580.0	1656.1	4.16	2.44	1.21
1620.0	1696.1	9.70	9.49	9.25	1620.0	1696.1	19.06	21.42	23.72	1620.0	1696.1	4.31	2.57	1.30
1680.0	1756.1	9.61	9.39	9.15	1680.0	1756.1	18.97	21.19	23.59	1680.0	1756.1	4.46	2.72	1.31
1720.0	1796.1	9.73	9.51	9.27	1720.0	1796.1	18.95	20.99	23.45	1720.0	1796.1	4.30	2.63	1.30
1780.0	1856.1	10.07	9.92	9.67	1780.0	1856.1	19.13	21.33	23.22	1780.0	1856.1	4.06	2.41	1.29

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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)=875MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=449.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1310.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
430.0	445.0	11.24	10.2	460.1	9.20	850.1	460.0	9.88
404.3	470.7	8.83	50.2	500.1	7.96	829.6	480.5	8.92
378.6	496.4	8.15	90.2	540.1	7.63	809.1	501.0	8.55
352.9	522.1	7.84	130.2	580.1	7.47	788.6	521.5	8.36
335.7	539.3	7.70	170.2	620.1	7.36	768.1	542.0	8.39
310.0	565.0	7.59	210.2	660.1	7.41	747.7	562.4	8.23
292.9	582.1	7.49	250.2	700.1	7.53	727.2	582.9	8.25
267.1	607.9	7.41	290.2	740.1	7.53	706.7	603.4	8.05
250.0	625.0	7.35	330.2	780.1	7.48	686.2	623.9	8.13
224.3	650.7	7.40	370.2	820.1	7.56	665.7	644.4	8.12
207.1	667.9	7.34	410.2	860.1	7.73	645.2	664.9	8.17
181.4	693.6	7.36	450.2	900.1	7.73	624.7	685.4	8.20
164.3	710.7	7.35	490.2	940.1	7.63	604.2	705.9	8.08
138.6	736.4	7.36	530.2	980.1	7.57	583.8	726.3	8.24
121.4	753.6	7.38	570.2	1020.1	7.53	563.3	746.8	8.20
95.7	779.3	7.37	610.2	1060.1	7.55	542.8	767.3	8.30
78.6	796.4	7.40	650.2	1100.1	7.59	522.3	787.8	8.30
52.9	822.1	7.39	690.2	1140.1	7.63	501.8	808.3	8.34
35.7	839.3	7.49	730.2	1180.1	7.70	481.3	828.8	8.45
10.0	865.0	7.49	790.2	1240.1	7.72	460.8	849.3	8.40
41.8	916.8	7.60	830.2	1280.1	7.74	440.3	869.8	8.56
137.3	1012.3	7.79	890.2	1340.1	7.76	419.9	890.2	8.48
201.0	1076.0	7.87	930.2	1380.1	7.80	399.4	910.7	8.62
296.5	1171.5	8.14	990.2	1440.1	7.80	378.9	931.2	8.64
360.2	1235.2	8.22	1030.2	1480.1	7.85	358.4	951.7	8.65
455.7	1330.7	8.26	1090.2	1540.1	7.87	337.9	972.2	8.71
519.4	1394.4	8.36	1130.2	1580.1	7.94	317.4	992.7	8.65
614.9	1489.9	8.42	1190.2	1640.1	8.13	296.9	1013.2	8.75
678.6	1553.6	8.41	1230.2	1680.1	8.20	276.4	1033.7	8.65
774.1	1649.1	8.57	1290.2	1740.1	8.19	256.0	1054.1	8.73
837.8	1712.8	8.51	1330.2	1780.1	8.27	235.5	1074.6	8.65
933.3	1808.3	8.62	1390.2	1840.1	8.75	215.0	1095.1	8.70
996.9	1871.9	9.05	1430.2	1880.1	8.92	194.5	1115.6	8.74
1092.4	1967.4	8.90	1490.2	1940.1	9.03	174.0	1136.1	8.69
1156.1	2031.1	8.84	1530.2	1980.1	9.15	153.5	1156.6	8.72
1251.6	2126.6	8.94	1590.2	2040.1	9.40	133.0	1177.1	8.70
1315.3	2190.3	9.08	1630.2	2080.1	9.54	92.1	1218.0	8.77
1410.8	2285.8	9.41	1690.2	2140.1	9.74	71.6	1238.5	8.80
1474.5	2349.5	9.67	1730.2	2180.1	9.93	30.6	1279.5	8.79
1570.0	2445.0	10.17	1790.2	2240.1	10.23	10.1	1300.0	8.81

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
116.1	63.49	63.14	62.88	52.79	52.41	52.46
156.1	60.72	60.28	60.30	50.17	49.86	49.89
196.1	59.17	58.88	58.92	48.39	48.10	48.12
236.1	57.63	57.51	57.54	46.78	46.66	46.53
276.1	59.23	59.10	58.64	45.53	45.39	45.23
316.1	56.26	55.98	55.73	44.43	44.16	44.12
356.1	56.31	56.28	56.20	43.35	43.15	43.07
396.1	55.20	55.15	54.97	41.88	41.66	41.33
436.1	51.03	50.63	50.29	39.42	39.00	38.64
476.1	51.48	51.10	50.75	44.09	43.60	43.38
516.1	49.99	49.61	49.30	43.60	43.10	42.98
556.1	49.58	49.29	49.13	43.13	42.75	42.63
596.1	49.40	49.10	49.06	41.91	41.82	41.75
636.1	46.58	46.15	46.60	39.77	39.84	41.43
676.1	44.01	43.93	44.34	36.83	37.38	40.76
716.1	42.49	42.30	42.67	34.73	35.39	37.61
756.1	42.41	42.11	42.35	33.84	34.41	35.20
796.1	43.92	43.38	43.58	32.29	32.79	33.13
836.1	55.45	55.03	54.95	30.55	30.92	31.23
876.1	46.01	46.47	47.09	30.68	31.10	31.30
916.1	43.96	44.66	45.13	31.56	32.08	32.20
956.1	43.88	44.46	44.80	32.22	32.63	32.67
996.1	43.56	44.24	44.40	32.34	32.86	32.88
1056.1	43.09	43.69	43.64	32.49	32.98	32.92
1096.1	42.54	43.06	43.10	32.40	32.87	32.83
1156.1	41.96	42.47	42.43	32.36	32.79	32.65
1196.1	42.24	42.74	42.73	32.25	32.63	32.51
1256.1	42.83	43.36	43.45	31.91	32.18	32.06
1296.1	42.55	43.11	43.18	31.66	31.87	31.73
1356.1	42.37	42.86	42.94	31.19	31.31	31.13
1396.1	42.02	42.53	42.60	30.95	31.01	30.96
1456.1	41.60	41.98	42.13	30.51	30.45	30.49
1496.1	41.23	41.66	41.85	30.19	30.16	30.26
1556.1	40.74	41.09	40.93	29.72	29.64	29.52
1596.1	40.51	40.80	40.66	29.42	29.30	29.23
1656.1	41.46	42.10	42.24	29.36	29.24	29.25
1696.1	42.72	43.74	43.95	29.73	29.63	29.55
1756.1	43.72	44.88	44.92	30.17	30.08	30.03
1796.1	44.97	46.35	46.49	30.25	30.20	30.12
1856.1	44.34	45.23	45.34	30.34	30.26	30.17

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
40.0	116.1	35.55	35.20	35.00
80.0	156.1	35.34	36.21	39.25
120.0	196.1	35.64	37.46	39.34
160.0	236.1	37.47	39.99	40.82
200.0	276.1	41.22	47.94	51.79
240.0	316.1	45.19	48.28	45.12
280.0	356.1	48.16	44.83	42.62
320.0	396.1	45.96	42.51	41.48
360.0	436.1	39.27	40.54	41.97
400.0	476.1	46.60	46.20	46.28
440.0	516.1	47.30	46.21	46.00
480.0	556.1	44.26	43.14	42.67
520.0	596.1	42.18	41.30	40.20
560.0	636.1	40.60	39.77	36.88
600.0	676.1	39.06	38.45	35.92
640.0	716.1	38.52	38.14	37.59
680.0	756.1	38.13	37.74	37.84
720.0	796.1	37.12	36.72	36.99
760.0	836.1	34.45	33.89	34.06
800.0	876.1	32.65	32.36	32.66
840.0	916.1	32.72	32.89	32.83
880.0	956.1	34.58	35.04	35.09
920.0	996.1	35.70	36.16	36.25
980.0	1056.1	35.41	35.79	35.83
1020.0	1096.1	35.12	35.42	35.48
1080.0	1156.1	34.96	35.34	35.43
1120.0	1196.1	34.77	35.13	35.12
1180.0	1256.1	34.96	35.34	35.38
1220.0	1296.1	34.91	35.21	35.34
1280.0	1356.1	34.63	34.86	34.90
1320.0	1396.1	34.58	34.77	34.83
1380.0	1456.1	35.19	35.50	35.70
1420.0	1496.1	35.32	35.63	35.87
1480.0	1556.1	36.03	36.18	36.39
1520.0	1596.1	37.57	37.82	38.22
1580.0	1656.1	40.05	40.10	40.02
1620.0	1696.1	41.64	41.49	39.64
1680.0	1756.1	42.23	40.93	37.46
1720.0	1796.1	43.26	42.07	38.36
1780.0	1856.1	45.81	47.09	46.61

Frequency Mixer

HJK-ED12243/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1300MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
40.0	116.1	1.98	1.75	1.33	116.1	62.05	64.35	69.49	10.0	2.07	2.20	2.18
80.0	156.1	1.68	1.47	1.20	156.1	49.64	49.64	54.29	50.7	2.01	2.14	2.12
120.0	196.1	1.60	1.45	1.25	196.1	46.96	48.26	51.10	91.4	1.99	2.11	2.09
160.0	236.1	1.48	1.40	1.30	236.1	43.44	43.44	46.96	111.7	1.98	2.10	2.09
200.0	276.1	1.47	1.43	1.38	276.1	39.49	40.41	42.38	152.4	1.98	2.10	2.09
240.0	316.1	1.47	1.48	1.46	316.1	36.97	36.97	38.61	172.7	1.92	2.03	2.02
280.0	356.1	1.53	1.54	1.53	356.1	33.42	33.42	34.75	213.4	1.96	2.07	2.06
320.0	396.1	1.59	1.60	1.59	396.1	28.96	28.96	29.96	233.7	1.92	2.03	2.02
360.0	436.1	1.62	1.62	1.63	436.1	21.73	21.46	22.00	274.4	1.90	2.00	1.99
400.0	476.1	2.39	2.54	2.54	476.1	20.45	20.45	20.70	294.7	1.91	2.01	2.00
440.0	516.1	2.28	2.38	2.38	516.1	17.75	17.57	17.93	335.4	1.87	1.96	1.95
480.0	556.1	2.24	2.33	2.34	556.1	13.29	13.09	13.29	355.8	1.86	1.94	1.93
520.0	596.1	2.20	2.26	2.30	596.1	8.51	8.43	8.05	396.4	1.82	1.89	1.89
560.0	636.1	2.21	2.27	2.33	636.1	4.66	4.54	3.40	416.8	1.82	1.89	1.89
600.0	676.1	2.22	2.28	2.32	676.1	2.33	2.15	1.35	457.5	1.79	1.84	1.83
640.0	716.1	2.21	2.25	2.28	716.1	2.15	2.20	1.84	477.8	1.78	1.83	1.82
680.0	756.1	2.24	2.28	2.30	756.1	3.67	3.83	3.73	518.5	1.79	1.83	1.83
720.0	796.1	2.24	2.27	2.28	796.1	5.66	5.87	5.99	538.8	1.73	1.76	1.76
760.0	836.1	2.31	2.33	2.34	836.1	7.76	8.01	8.27	579.5	1.76	1.79	1.79
800.0	876.1	2.34	2.36	2.37	876.1	10.56	10.82	11.09	599.8	1.72	1.74	1.74
840.0	916.1	2.42	2.44	2.45	916.1	13.09	13.29	13.70	640.5	1.71	1.72	1.73
880.0	956.1	2.51	2.52	2.54	956.1	15.53	15.81	16.11	660.8	1.69	1.70	1.71
920.0	996.1	2.56	2.57	2.59	996.1	17.39	17.57	17.75	701.5	1.63	1.64	1.65
980.0	1056.1	2.69	2.69	2.72	1056.1	19.54	19.76	19.76	721.9	1.63	1.62	1.63
1020.0	1096.1	2.71	2.72	2.75	1096.1	20.70	20.70	20.70	762.5	1.57	1.55	1.57
1080.0	1156.1	2.77	2.78	2.80	1156.1	22.00	21.73	21.73	782.9	1.56	1.55	1.57
1120.0	1196.1	2.77	2.78	2.81	1196.1	22.58	22.29	22.29	823.6	1.50	1.47	1.49
1180.0	1256.1	2.80	2.80	2.84	1256.1	23.18	22.87	22.29	843.9	1.47	1.45	1.46
1220.0	1296.1	2.78	2.78	2.83	1296.1	23.49	22.87	22.58	884.6	1.44	1.41	1.42
1280.0	1356.1	2.75	2.76	2.80	1356.1	23.49	22.87	22.00	904.9	1.39	1.35	1.37
1320.0	1396.1	2.73	2.75	2.79	1396.1	23.18	22.87	22.58	945.6	1.38	1.34	1.36
1380.0	1456.1	2.66	2.67	2.71	1456.1	22.58	22.00	21.20	965.9	1.32	1.29	1.30
1420.0	1496.1	2.64	2.65	2.69	1496.1	22.00	21.73	21.46	1006.6	1.30	1.27	1.28
1480.0	1556.1	2.55	2.56	2.60	1556.1	20.45	19.98	18.90	1026.9	1.26	1.22	1.23
1520.0	1596.1	2.52	2.53	2.58	1596.1	19.76	19.32	18.90	1067.6	1.20	1.17	1.19
1580.0	1656.1	2.43	2.44	2.49	1656.1	18.11	17.57	16.56	1088.0	1.19	1.16	1.17
1620.0	1696.1	2.40	2.42	2.47	1696.1	17.57	17.39	17.05	1128.6	1.10	1.10	1.11
1680.0	1756.1	2.32	2.32	2.37	1756.1	16.26	15.81	14.87	1149.0	1.11	1.11	1.13
1720.0	1796.1	2.30	2.31	2.36	1796.1	15.53	15.26	14.87	1189.7	1.06	1.10	1.11
1780.0	1856.1	2.12	2.12	2.15	1856.1	14.38	13.81	13.09	1210.0	1.10	1.15	1.16

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	26	31	28	35	46	42	45	41	43
1	-	27	+0	26	17	32	38	36	38	39	41	54
2	58	58	60	54	40	58	47	67	53	63	59	62
3	89	72	60	63	58	66	60	70	70	70	75	74
4	>90	>84	83	>84	77	84	76	80	81	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	>84	>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: 875 MHz; 2.00 dBm.
LO IN: 951.1 MHz; +17.00 dBm
IF OUT: 76.1 MHz; -5.95 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	31	34	38	36	53	52	51	45	52
1	-	26	+0	25	19	32	35	40	41	48	46	68
2	38	38	44	39	28	48	38	48	48	53	54	56
3	60	56	35	47	34	43	40	46	51	52	58	59
4	82	58	55	72	50	54	43	58	52	59	57	62
5	>90	61	75	59	54	58	53	62	57	59	63	66
6	>90	83	84	76	78	73	66	66	64	69	69	74
7	>90	>94	89	83	85	82	78	77	78	80	80	85
8	>90	>94	>94	>94	92	88	85	81	77	76	82	80
9	>90	>94	>94	>94	>94	>94	>94	>94	91	87	81	82
10	>90	>94	>94	>94	>94	>94	>94	>94	91	86	88	87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 875 MHz; 12.00 dBm.
LO IN: 951.1 MHz; +17.00 dBm
IF OUT: 76.1 MHz; 3.74 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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