

Frequency Mixer

HJK-ED9115/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
60.1	130.1	14.15	12.39	10.84
120.1	190.1	12.16	10.72	9.63
180.1	250.1	10.53	9.36	8.52
240.1	310.1	9.75	8.65	7.88
300.1	370.1	9.26	8.32	7.72
360.1	430.1	8.50	7.84	7.32
420.1	490.1	8.00	7.54	7.10
480.1	550.1	7.87	7.50	7.45
540.1	610.1	7.66	7.36	7.34
600.1	670.1	7.68	7.45	7.38
660.1	730.1	7.62	7.41	7.38
720.1	790.1	7.57	7.35	7.33
780.1	850.1	7.74	7.45	7.42
840.1	910.1	7.89	7.57	7.50
900.1	970.1	8.06	7.68	7.58
960.1	1030.1	8.24	7.81	7.65
1020.1	1090.1	8.33	7.85	7.69
1080.1	1150.1	8.46	7.92	7.70
1140.1	1210.1	8.71	8.10	7.86
1200.1	1270.1	8.88	8.22	7.95
1260.1	1330.1	8.97	8.29	8.03
1330.1	1400.1	9.16	8.43	8.13
1390.1	1460.1	9.09	8.38	8.17
1460.1	1530.1	9.02	8.33	8.04
1520.1	1590.1	9.24	8.50	8.22
1590.1	1660.1	9.26	8.51	8.34
1650.1	1720.1	9.12	8.45	8.24
1720.1	1790.1	9.26	8.64	8.38
1780.1	1850.1	9.36	8.74	8.48
1850.1	1920.1	9.50	8.91	8.69
1910.1	1980.1	9.63	9.08	8.89
1980.1	2050.1	9.81	9.17	9.01
2040.1	2110.1	10.01	9.45	9.29
2110.1	2180.1	10.19	9.68	9.54
2170.1	2240.1	10.26	9.68	9.48
2240.1	2310.1	10.72	10.11	9.95
2300.1	2370.1	10.91	10.37	10.23
2370.1	2440.1	10.96	10.37	10.19
2430.1	2500.1	11.52	10.97	10.79
2500.1	2570.1	11.81	11.40	11.25

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
60.1	130.1	15.73	15.85	17.40
120.1	190.1	15.87	17.20	19.93
180.1	250.1	17.01	20.52	23.61
240.1	310.1	19.26	22.15	23.27
300.1	370.1	24.82	23.66	24.32
360.1	430.1	24.97	26.56	28.89
420.1	490.1	24.33	26.20	27.95
480.1	550.1	23.21	24.83	25.70
540.1	610.1	22.17	24.47	25.86
600.1	670.1	24.72	27.70	29.15
660.1	730.1	26.45	29.05	30.52
720.1	790.1	26.63	29.42	31.34
780.1	850.1	25.98	29.30	31.18
840.1	910.1	25.83	29.40	31.05
900.1	970.1	25.36	28.43	29.56
960.1	1030.1	24.41	27.78	30.43
1020.1	1090.1	23.47	26.73	28.83
1080.1	1150.1	23.10	26.09	27.91
1140.1	1210.1	22.07	24.87	26.98
1200.1	1270.1	21.88	24.46	26.01
1260.1	1330.1	22.16	24.55	25.72
1330.1	1400.1	22.41	24.37	25.21
1390.1	1460.1	22.68	24.12	24.92
1460.1	1530.1	23.17	24.35	25.80
1520.1	1590.1	24.06	24.99	26.10
1590.1	1660.1	23.61	24.83	25.85
1650.1	1720.1	23.17	24.69	26.20
1720.1	1790.1	23.36	24.89	26.88
1780.1	1850.1	23.22	24.92	27.18
1850.1	1920.1	22.55	24.88	27.85
1910.1	1980.1	22.55	25.21	28.38
1980.1	2050.1	23.07	25.76	28.77
2040.1	2110.1	23.03	25.67	29.13
2110.1	2180.1	23.04	25.78	29.10
2170.1	2240.1	23.19	25.46	28.27
2240.1	2310.1	23.41	25.92	27.99
2300.1	2370.1	23.66	26.46	28.85
2370.1	2440.1	24.30	26.78	29.44
2430.1	2500.1	24.77	27.07	30.06
2500.1	2570.1	25.31	27.70	30.86

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+18dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
60.1	130.1	3.64	2.94	2.53
120.1	190.1	3.25	2.70	2.24
180.1	250.1	3.25	2.46	1.75
240.1	310.1	2.70	1.88	1.21
300.1	370.1	2.28	1.50	0.95
360.1	430.1	1.91	0.98	0.55
420.1	490.1	1.49	0.72	0.40
480.1	550.1	1.25	0.62	0.39
540.1	610.1	1.12	0.63	0.44
600.1	670.1	1.10	0.54	0.39
660.1	730.1	1.09	0.51	0.38
720.1	790.1	1.14	0.51	0.37
780.1	850.1	1.14	0.53	0.32
840.1	910.1	1.08	0.57	0.28
900.1	970.1	1.11	0.59	0.25
960.1	1030.1	1.20	0.65	0.19
1020.1	1090.1	1.43	0.81	0.24
1080.1	1150.1	1.50	0.88	0.19
1140.1	1210.1	1.58	0.97	0.26
1200.1	1270.1	1.64	1.06	0.36
1260.1	1330.1	1.58	1.04	0.35
1330.1	1400.1	1.59	1.00	0.39
1390.1	1460.1	1.85	1.09	0.43
1460.1	1530.1	2.02	1.12	0.44
1520.1	1590.1	1.92	0.99	0.34
1590.1	1660.1	2.13	1.11	0.40
1650.1	1720.1	2.24	1.22	0.47
1720.1	1790.1	2.11	1.20	0.40
1780.1	1850.1	1.97	1.14	0.37
1850.1	1920.1	1.81	1.12	0.39
1910.1	1980.1	1.58	1.04	0.35
1980.1	2050.1	1.29	0.87	0.29
2040.1	2110.1	1.22	0.84	0.25
2110.1	2180.1	1.09	0.78	0.21
2170.1	2240.1	1.01	0.73	0.23
2240.1	2310.1	0.90	0.67	0.23
2300.1	2370.1	0.84	0.62	0.19
2370.1	2440.1	0.76	0.53	0.15
2430.1	2500.1	0.73	0.49	0.10
2500.1	2570.1	0.73	0.46	0.05

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Frequency Mixer

HJK-ED9115/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1250.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=110.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1260.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1010.0	240.1	12.28	10.0	120.1	13.08	1010.0	250.1	12.02
958.7	291.4	10.92	70.0	180.1	10.90	989.6	270.5	11.46
907.4	342.7	10.20	130.0	240.1	9.61	969.2	290.9	10.90
856.2	393.9	9.70	190.0	300.1	8.84	948.8	311.3	10.38
804.9	445.2	9.39	250.0	360.1	8.47	928.4	331.7	10.28
753.6	496.5	9.10	310.0	420.1	7.96	908.0	352.1	10.04
702.3	547.8	8.89	370.0	480.1	7.94	887.6	372.5	9.87
651.0	599.1	8.56	430.0	540.1	7.79	867.1	393.0	9.71
599.7	650.4	8.41	490.0	600.1	7.74	846.7	413.4	9.56
548.5	701.6	8.17	550.0	660.1	7.73	826.3	433.8	9.61
497.2	752.9	8.06	610.0	720.1	7.76	805.9	454.2	9.42
445.9	804.2	8.04	670.0	780.1	7.77	785.5	474.6	9.33
394.6	855.5	8.16	730.0	840.1	7.87	765.1	495.0	9.13
343.3	906.8	8.08	790.0	900.1	7.97	744.7	515.4	9.01
292.1	958.0	8.05	850.0	960.1	8.11	724.3	535.8	9.01
240.8	1009.3	8.12	910.0	1020.1	8.29	703.9	556.2	8.84
189.5	1060.6	8.14	970.0	1080.1	8.39	683.5	576.6	8.78
138.2	1111.9	8.17	1030.0	1140.1	8.59	663.1	597.0	8.63
86.9	1163.2	8.31	1090.0	1200.1	8.72	642.7	617.4	8.46
35.6	1214.5	8.38	1150.0	1260.1	8.86	622.2	637.9	8.53
37.4	1287.5	8.45	1210.0	1320.1	9.00	581.4	678.7	8.23
147.2	1397.3	8.55	1270.0	1380.1	9.02	561.0	699.1	8.11
256.9	1507.0	8.62	1330.0	1440.1	9.13	520.2	739.9	8.06
366.7	1616.8	8.84	1390.0	1500.1	9.20	499.8	760.3	8.08
476.4	1726.5	9.09	1450.0	1560.1	9.25	459.0	801.1	8.04
586.2	1836.3	9.23	1510.0	1620.1	9.33	438.6	821.5	8.10
695.9	1946.0	9.22	1570.0	1680.1	9.45	397.8	862.3	8.11
805.6	2055.7	9.22	1630.0	1740.1	9.73	377.3	882.8	8.12
915.4	2165.5	9.26	1690.0	1800.1	9.84	336.5	923.6	8.09
1025.1	2275.2	9.28	1750.0	1860.1	10.17	316.1	944.0	8.13
1134.9	2385.0	9.33	1810.0	1920.1	10.36	275.3	984.8	8.19
1244.6	2494.7	9.49	1870.0	1980.1	10.37	254.9	1005.2	8.10
1354.4	2604.5	9.67	1930.0	2040.1	10.43	214.1	1046.0	8.19
1464.1	2714.2	9.84	1990.0	2100.1	10.44	193.7	1066.4	8.24
1573.8	2823.9	9.91	2050.0	2160.1	10.52	152.9	1107.2	8.28
1683.6	2933.7	10.24	2110.0	2220.1	10.66	132.4	1127.7	8.27
1793.3	3043.4	10.67	2190.0	2300.1	10.83	91.6	1168.5	8.28
1903.1	3153.2	10.63	2250.0	2360.1	10.93	71.2	1188.9	8.40
2012.8	3262.9	10.96	2330.0	2440.1	11.26	30.4	1229.7	8.42
2150.0	3400.1	11.54	2390.0	2500.1	11.53	10.0	1250.1	8.81

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Frequency Mixer

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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
130.1	38.20	39.47	41.49	38.63	37.15	39.02
190.1	36.13	37.70	39.35	36.84	36.28	37.37
250.1	35.33	36.98	38.53	36.05	35.85	35.99
310.1	34.84	36.33	37.78	35.12	35.13	34.46
370.1	33.37	34.54	35.70	33.99	34.14	32.77
430.1	32.90	33.97	35.13	32.42	32.79	30.94
490.1	31.79	32.82	33.75	30.32	30.89	28.79
550.1	31.68	32.69	34.09	27.59	28.14	26.70
610.1	32.30	33.80	36.69	25.59	26.52	25.48
670.1	31.89	33.35	36.43	24.71	26.08	24.82
730.1	31.76	33.23	36.51	24.04	25.36	24.21
790.1	30.64	31.88	35.03	23.91	24.75	23.98
850.1	30.45	30.68	33.49	24.31	25.53	24.36
910.1	31.69	32.00	33.66	24.21	25.30	24.49
970.1	32.91	33.31	35.20	24.63	25.70	25.14
1030.1	34.07	34.51	36.30	24.96	26.03	25.65
1090.1	33.36	33.87	35.56	25.58	26.65	26.49
1150.1	33.03	33.48	35.17	26.17	27.21	27.07
1210.1	32.81	33.22	34.59	26.21	27.24	26.95
1270.1	32.09	32.45	33.98	26.42	27.48	27.11
1330.1	32.69	33.21	34.83	26.67	27.79	27.35
1400.1	33.43	34.01	36.26	26.92	27.99	27.73
1460.1	32.85	33.40	35.64	27.04	28.10	27.84
1530.1	32.57	32.96	35.10	26.92	27.70	27.32
1590.1	32.68	33.09	35.14	26.96	27.54	27.16
1660.1	32.66	32.99	34.78	26.80	27.19	26.73
1720.1	31.84	31.96	33.30	26.84	27.23	26.80
1790.1	31.47	31.81	33.07	27.20	27.99	27.89
1850.1	32.22	32.72	34.03	28.19	29.16	29.23
1920.1	32.72	33.38	34.99	29.80	30.98	31.40
1980.1	32.32	33.03	34.65	31.95	33.17	33.92
2050.1	32.33	32.86	34.59	35.21	35.38	36.55
2110.1	32.87	33.60	35.40	37.76	35.99	37.02
2180.1	32.64	33.25	34.77	37.45	34.43	34.98
2240.1	32.69	33.39	34.97	35.19	32.74	33.23
2310.1	33.30	34.18	36.03	32.90	31.23	31.73
2370.1	33.27	33.93	35.86	31.49	29.83	30.75
2440.1	33.80	34.60	36.60	30.47	29.21	30.18
2500.1	33.69	34.47	36.47	29.91	28.73	30.00
2570.1	33.56	34.51	36.52	29.72	28.91	30.38

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
60.1	130.1	41.46	42.85	42.48
120.1	190.1	40.50	42.13	40.89
180.1	250.1	38.06	39.97	36.95
240.1	310.1	41.74	48.60	47.46
300.1	370.1	39.74	40.65	31.71
360.1	430.1	42.67	42.90	39.02
420.1	490.1	34.67	34.67	35.12
480.1	550.1	31.93	32.40	34.24
540.1	610.1	32.55	33.74	40.61
600.1	670.1	33.23	34.53	40.51
660.1	730.1	33.65	36.53	39.14
720.1	790.1	33.15	34.92	37.23
780.1	850.1	32.93	35.58	39.38
840.1	910.1	36.84	41.75	52.19
900.1	970.1	41.92	42.54	36.91
960.1	1030.1	39.67	38.56	33.59
1020.1	1090.1	37.08	36.29	33.58
1080.1	1150.1	35.34	35.09	33.11
1140.1	1210.1	33.76	34.03	33.28
1200.1	1270.1	33.46	34.06	35.12
1260.1	1330.1	33.74	34.51	35.59
1330.1	1400.1	34.58	35.87	36.89
1390.1	1460.1	34.70	36.24	37.49
1460.1	1530.1	35.02	36.26	37.70
1520.1	1590.1	34.61	35.65	36.62
1590.1	1660.1	34.68	35.37	35.64
1650.1	1720.1	34.69	35.27	35.40
1720.1	1790.1	35.80	35.92	34.96
1780.1	1850.1	36.38	35.76	33.52
1850.1	1920.1	35.14	34.35	31.68
1910.1	1980.1	34.09	34.15	32.14
1980.1	2050.1	33.00	33.44	31.83
2040.1	2110.1	32.64	33.55	32.60
2110.1	2180.1	32.04	32.86	31.90
2170.1	2240.1	31.42	32.32	31.76
2240.1	2310.1	30.71	31.78	31.54
2300.1	2370.1	30.35	31.47	31.58
2370.1	2440.1	29.72	30.86	31.36
2430.1	2500.1	29.35	30.52	31.36
2500.1	2570.1	29.65	30.68	31.58

Frequency Mixer

HJK-ED9115/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1250MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
60.1	130.1	1.74	1.57	1.40	130.1	46.96	59.91	42.38	10.0	1.07	1.21	1.41
120.1	190.1	1.63	1.46	1.29	190.1	108.58	72.39	144.77	50.0	1.12	1.26	1.48
180.1	250.1	1.50	1.35	1.25	250.1	40.41	33.42	41.37	90.0	1.12	1.24	1.45
240.1	310.1	1.45	1.34	1.29	310.1	22.58	20.45	22.29	130.0	1.15	1.26	1.46
300.1	370.1	1.48	1.40	1.37	370.1	14.15	13.29	13.49	170.0	1.19	1.25	1.43
360.1	430.1	1.51	1.45	1.44	430.1	9.74	9.28	9.08	210.0	1.22	1.23	1.36
420.1	490.1	1.53	1.48	1.47	490.1	6.35	6.13	5.91	250.0	1.28	1.25	1.35
480.1	550.1	1.57	1.52	1.51	550.1	4.09	3.99	3.82	290.0	1.36	1.28	1.30
540.1	610.1	1.57	1.53	1.54	610.1	2.62	2.58	2.52	330.0	1.47	1.37	1.35
600.1	670.1	1.56	1.53	1.55	670.1	1.69	1.66	1.68	370.0	1.54	1.42	1.33
660.1	730.1	1.58	1.53	1.53	730.1	1.13	1.12	1.23	410.0	1.69	1.56	1.44
720.1	790.1	1.59	1.51	1.48	790.1	1.37	1.39	1.41	450.0	1.71	1.56	1.43
780.1	850.1	1.67	1.55	1.48	850.1	1.91	1.96	1.89	490.0	1.87	1.70	1.54
840.1	910.1	1.80	1.67	1.57	910.1	2.53	2.59	2.45	530.0	1.88	1.71	1.54
900.1	970.1	1.90	1.74	1.63	970.1	3.17	3.25	3.04	570.0	1.97	1.79	1.59
960.1	1030.1	2.02	1.85	1.70	1030.1	3.89	3.98	3.78	590.0	2.00	1.81	1.59
1020.1	1090.1	2.11	1.93	1.76	1090.1	4.52	4.59	4.46	630.0	2.04	1.84	1.62
1080.1	1150.1	2.20	2.00	1.80	1150.1	5.12	5.14	5.10	650.0	2.02	1.82	1.61
1140.1	1210.1	2.27	2.05	1.83	1210.1	5.72	5.72	5.75	690.0	2.15	1.94	1.72
1200.1	1270.1	2.24	2.02	1.80	1270.1	6.03	5.97	5.97	710.0	2.23	2.02	1.78
1260.1	1330.1	2.18	1.95	1.75	1330.1	6.37	6.28	6.30	750.0	2.29	2.08	1.83
1330.1	1400.1	2.08	1.83	1.64	1400.1	6.58	6.49	6.49	770.0	2.27	2.05	1.81
1390.1	1460.1	1.96	1.72	1.54	1460.1	6.53	6.39	6.32	810.0	2.23	2.01	1.78
1460.1	1530.1	1.85	1.62	1.45	1530.1	6.53	6.39	6.28	830.0	2.27	2.06	1.83
1520.1	1590.1	1.73	1.52	1.37	1590.1	6.56	6.42	6.35	870.0	2.37	2.16	1.92
1590.1	1660.1	1.60	1.41	1.29	1660.1	6.30	6.19	6.09	890.0	2.34	2.12	1.89
1650.1	1720.1	1.49	1.33	1.25	1720.1	6.15	6.03	5.93	930.0	2.37	2.15	1.92
1720.1	1790.1	1.34	1.25	1.23	1790.1	6.01	5.91	5.85	950.0	2.32	2.10	1.87
1780.1	1850.1	1.25	1.22	1.29	1850.1	5.79	5.66	5.58	990.0	2.26	2.04	1.82
1850.1	1920.1	1.21	1.28	1.40	1920.1	5.58	5.42	5.27	1010.0	2.30	2.09	1.88
1910.1	1980.1	1.23	1.36	1.51	1980.1	5.54	5.42	5.31	1050.0	2.31	2.10	1.89
1980.1	2050.1	1.31	1.48	1.65	2050.1	5.38	5.27	5.13	1070.0	2.24	2.03	1.82
2040.1	2110.1	1.41	1.59	1.78	2110.1	5.16	5.03	4.79	1110.0	2.14	1.94	1.75
2110.1	2180.1	1.55	1.74	1.93	2180.1	5.10	5.00	4.83	1130.0	2.13	1.93	1.74
2170.1	2240.1	1.72	1.91	2.13	2240.1	4.96	4.87	4.67	1170.0	2.07	1.88	1.69
2240.1	2310.1	1.89	2.11	2.31	2310.1	4.72	4.61	4.36	1190.0	2.06	1.87	1.69
2300.1	2370.1	2.12	2.33	2.52	2370.1	4.64	4.57	4.36	1230.0	1.97	1.80	1.62
2370.1	2440.1	2.38	2.60	2.80	2440.1	4.43	4.37	4.14	1250.0	1.29	2.87	3.09
2430.1	2500.1	2.57	2.78	2.98	2500.1	4.18	4.10	3.82	1290.0	1.82	1.66	1.50
2500.1	2570.1	2.88	3.08	3.28	2570.1	3.85	3.82	3.58	1310.0	1.83	1.67	1.51

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	3	23	21	35	30	37	50	55	37	48
1	-	23	+0	30	17	44	30	53	39	53	44	46
2	61	35	41	52	43	44	43	59	54	58	53	63
3	>90	55	46	49	44	46	56	52	58	59	67	60
4	>90	>84	67	76	65	61	69	58	61	81	77	80
5	>90	81	79	77	75	71	67	66	68	70	79	74
6	>90	>84	>84	>84	81	>84	81	74	>84	72	78	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	82	82	>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: 1250 MHz; 3.00 dBm.
LO IN: 1320 MHz; +17.00 dBm
IF OUT: 70 MHz; -5.7 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	29	39	54	48	57	49	55	59	58
1	-	22	+0	29	18	38	33	47	43	55	50	54
2	41	25	31	41	36	48	43	51	50	64	62	57
3	62	36	28	33	30	39	39	54	48	74	58	74
4	81	52	49	64	46	51	48	55	56	64	65	66
5	>90	68	53	54	41	43	42	48	50	62	58	73
6	>90	77	74	66	56	61	58	55	58	61	63	73
7	>90	69	73	79	57	65	49	51	52	56	58	70
8	>90	80	75	81	88	68	64	63	70	60	67	67
9	>90	75	91	87	78	77	61	67	56	57	58	61
10	>90	81	79	>94	84	79	80	77	70	66	74	66
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1250 MHz; 13.00 dBm.
LO IN: 1320 MHz; +17.00 dBm
IF OUT: 70 MHz; 3.83 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.