

Frequency Mixer

HJK-ED9549/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=350MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
500.1	150.1	17.41	15.21	13.49
660.1	310.1	12.79	10.68	9.27
740.1	390.1	10.61	8.85	8.06
820.1	470.1	9.21	8.28	7.74
910.1	560.1	10.61	10.79	9.91
990.1	640.1	8.71	8.05	7.77
1080.1	730.1	7.94	7.50	7.53
1160.1	810.1	7.85	7.34	7.29
1250.1	900.1	8.18	7.45	7.19
1330.1	980.1	8.78	7.88	7.51
1420.1	1070.1	9.95	9.01	8.61
1500.1	1150.1	10.12	8.94	8.32
1590.1	1240.1	10.18	8.87	8.24
1670.1	1320.1	10.36	8.94	8.33
1760.1	1410.1	10.55	9.05	8.37
1840.1	1490.1	10.59	9.01	8.30
1930.1	1580.1	10.45	8.96	8.32
2010.1	1660.1	10.55	9.05	8.41
2100.1	1750.1	10.70	9.23	8.53
2180.1	1830.1	10.80	9.31	8.61
2270.1	1920.1	10.73	9.32	8.64
2350.1	2000.1	10.58	9.21	8.66
2440.1	2090.1	10.40	9.13	8.52
2520.1	2170.1	10.16	8.96	8.39
2610.1	2260.1	10.08	8.93	8.39
2690.1	2340.1	10.05	8.86	8.38
2780.1	2430.1	9.88	8.79	8.36
2860.1	2510.1	9.81	8.83	8.41
2950.1	2600.1	9.70	8.75	8.35
3030.1	2680.1	9.61	8.73	8.36
3120.1	2770.1	9.60	8.67	8.32
3200.1	2850.1	9.64	8.72	8.35
3290.1	2940.1	9.86	8.86	8.43
3370.1	3020.1	10.24	9.07	8.51
3460.1	3110.1	10.86	9.44	8.79
3540.1	3190.1	11.73	10.04	9.12
3630.1	3280.1	12.67	10.83	10.00
3710.1	3360.1	13.04	11.21	10.36
3800.1	3450.1	13.30	11.61	10.82

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
500.1	150.1	14.27	14.31	15.21
660.1	310.1	18.34	22.92	21.41
740.1	390.1	21.46	21.30	23.87
820.1	470.1	31.90	27.67	27.04
910.1	560.1	18.19	24.18	25.44
990.1	640.1	27.60	33.13	35.36
1080.1	730.1	31.68	34.71	35.65
1160.1	810.1	31.12	35.02	36.34
1250.1	900.1	27.68	32.88	37.80
1330.1	980.1	24.41	29.37	31.75
1420.1	1070.1	22.92	32.09	30.63
1500.1	1150.1	23.33	29.10	31.94
1590.1	1240.1	22.13	26.71	30.49
1670.1	1320.1	22.31	26.91	30.31
1760.1	1410.1	21.67	25.21	28.46
1840.1	1490.1	20.93	24.05	27.16
1930.1	1580.1	20.91	23.82	26.60
2010.1	1660.1	21.40	24.25	26.81
2100.1	1750.1	21.29	23.78	26.53
2180.1	1830.1	20.98	23.56	26.28
2270.1	1920.1	21.22	23.79	26.70
2350.1	2000.1	21.57	24.51	27.25
2440.1	2090.1	22.23	25.35	28.72
2520.1	2170.1	22.86	26.31	29.99
2610.1	2260.1	23.58	27.63	31.48
2690.1	2340.1	24.22	29.71	32.61
2780.1	2430.1	24.46	30.45	32.42
2860.1	2510.1	24.31	29.03	32.19
2950.1	2600.1	23.89	28.00	32.08
3030.1	2680.1	23.58	27.69	32.70
3120.1	2770.1	23.11	27.77	34.31
3200.1	2850.1	22.78	27.03	34.60
3290.1	2940.1	22.44	26.31	35.29
3370.1	3020.1	21.91	24.96	32.73
3460.1	3110.1	21.42	23.27	27.48
3540.1	3190.1	20.63	21.94	24.97
3630.1	3280.1	19.99	22.29	26.43
3710.1	3360.1	21.69	28.38	27.95
3800.1	3450.1	21.76	33.99	26.56

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+19dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
500.1	150.1	9.81	9.59	8.68
660.1	310.1	1.85	2.06	2.12
740.1	390.1	1.85	2.05	1.89
820.1	470.1	1.37	1.07	0.64
910.1	560.1	-0.48	-0.70	0.31
990.1	640.1	0.32	0.43	0.18
1080.1	730.1	0.24	0.21	0.08
1160.1	810.1	0.15	0.19	0.11
1250.1	900.1	0.08	0.26	0.13
1330.1	980.1	0.05	0.33	0.32
1420.1	1070.1	-0.19	0.12	0.06
1500.1	1150.1	-0.14	0.10	0.05
1590.1	1240.1	0.02	0.20	0.10
1670.1	1320.1	0.22	0.37	0.19
1760.1	1410.1	0.15	0.43	0.22
1840.1	1490.1	0.10	0.35	0.19
1930.1	1580.1	0.22	0.39	0.16
2010.1	1660.1	0.07	0.26	0.04
2100.1	1750.1	-0.18	0.20	0.06
2180.1	1830.1	-0.33	0.18	0.04
2270.1	1920.1	-0.25	0.19	0.05
2350.1	2000.1	-0.18	0.18	0.07
2440.1	2090.1	-0.19	0.17	0.06
2520.1	2170.1	-0.10	0.19	0.07
2610.1	2260.1	-0.09	0.22	0.09
2690.1	2340.1	-0.10	0.22	0.10
2780.1	2430.1	-0.09	0.17	0.09
2860.1	2510.1	-0.09	0.13	0.05
2950.1	2600.1	-0.11	0.11	0.05
3030.1	2680.1	-0.06	0.13	0.06
3120.1	2770.1	0.06	0.20	0.09
3200.1	2850.1	0.24	0.29	0.12
3290.1	2940.1	0.44	0.43	0.20
3370.1	3020.1	0.71	0.63	0.32
3460.1	3110.1	0.97	0.98	0.56
3540.1	3190.1	1.01	1.14	0.71
3630.1	3280.1	1.33	1.37	0.94
3710.1	3360.1	1.88	1.82	1.14
3800.1	3450.1	2.32	1.81	0.87

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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)=1650MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=690MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3410.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1149.9	500.1	12.04	10.1	700.1	7.28	1410.0	2000.1	11.19
1098.9	551.1	12.78	70.6	760.6	6.79	1369.4	2040.7	10.95
1047.8	602.2	9.89	131.1	821.1	6.61	1328.8	2081.3	10.85
996.8	653.2	9.02	191.6	881.6	6.91	1288.3	2121.8	10.86
928.7	721.3	8.19	252.1	942.1	7.06	1247.7	2162.4	10.61
877.7	772.3	7.77	312.6	1002.6	7.23	1207.1	2203.0	10.57
809.6	840.4	8.83	373.1	1063.1	7.96	1166.5	2243.6	10.24
758.6	891.4	8.88	433.6	1123.6	7.97	1125.9	2284.2	10.27
690.5	959.5	8.85	494.1	1184.1	8.11	1085.4	2324.7	10.18
639.5	1010.5	8.98	554.6	1244.6	8.29	1044.8	2365.3	9.97
571.4	1078.6	9.64	615.1	1305.1	8.59	1004.2	2405.9	9.96
520.4	1129.6	9.25	675.6	1365.6	8.86	963.6	2446.5	9.67
452.3	1197.7	8.92	736.2	1426.2	8.94	923.0	2487.1	9.72
401.3	1248.7	8.78	796.7	1486.7	9.15	882.5	2527.6	9.54
333.3	1316.7	8.68	857.2	1547.2	9.25	841.9	2568.2	9.52
282.2	1367.8	8.63	917.7	1607.7	9.46	801.3	2608.8	9.47
214.2	1435.8	8.45	978.2	1668.2	9.44	760.7	2649.4	9.32
163.1	1486.9	8.42	1038.7	1728.7	9.55	720.1	2690.0	9.31
95.1	1554.9	8.32	1099.2	1789.2	9.72	679.6	2730.5	9.15
44.0	1606.0	8.39	1159.7	1849.7	9.68	639.0	2771.1	9.15
33.0	1683.0	8.45	1220.2	1910.2	9.76	598.4	2811.7	9.14
101.9	1751.9	8.51	1280.7	1970.7	9.75	557.8	2852.3	9.05
193.9	1843.9	8.54	1341.2	2031.2	9.88	517.2	2892.9	9.01
262.9	1912.9	8.58	1401.7	2091.7	9.92	497.0	2913.1	9.06
354.8	2004.8	8.71	1462.2	2152.2	9.77	456.4	2953.7	9.04
423.8	2073.8	8.72	1522.7	2212.7	9.90	436.1	2974.0	9.00
515.7	2165.7	8.83	1583.2	2273.2	9.76	395.5	3014.6	9.17
584.7	2234.7	8.97	1643.7	2333.7	9.68	375.2	3034.9	9.13
676.6	2326.6	9.01	1704.2	2394.2	9.68	334.6	3075.5	9.12
745.6	2395.6	9.04	1764.7	2454.7	9.48	314.3	3095.8	9.28
837.5	2487.5	9.25	1825.2	2515.2	9.51	273.8	3136.3	9.37
906.5	2556.5	9.43	1885.7	2575.7	9.44	253.5	3156.6	9.38
998.4	2648.4	9.65	1946.2	2636.2	9.37	212.9	3197.2	9.77
1067.4	2717.4	9.78	2006.7	2696.7	9.50	192.6	3217.5	9.90
1159.3	2809.3	9.83	2067.2	2757.2	9.54	152.0	3258.1	10.22
1228.3	2878.3	10.00	2127.7	2817.7	9.66	131.7	3278.4	10.35
1320.2	2970.2	10.24	2208.4	2898.4	9.83	91.2	3318.9	10.64
1389.2	3039.2	10.61	2268.9	2958.9	10.04	70.9	3339.2	10.75
1481.1	3131.1	11.23	2349.6	3039.6	10.34	30.3	3379.8	10.98
1550.1	3200.1	12.04	2410.1	3100.1	10.89	10.0	3400.1	11.37

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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
150.1	56.33	56.39	56.41	59.72	59.02	57.30
310.1	52.48	51.90	51.36	52.16	50.83	50.18
390.1	49.95	49.42	48.96	51.51	50.26	49.72
470.1	46.41	46.01	45.43	51.85	51.05	50.52
560.1	39.49	39.41	39.56	44.85	46.87	48.88
640.1	41.70	40.48	40.06	38.74	40.03	40.74
730.1	41.09	40.05	39.94	32.20	32.88	33.01
810.1	40.01	39.27	39.55	29.30	30.08	30.26
900.1	41.60	40.80	41.27	29.31	30.47	30.84
980.1	40.63	40.72	41.50	28.87	29.98	30.57
1070.1	41.17	41.75	42.28	29.03	30.20	30.93
1150.1	40.73	41.92	42.71	28.39	29.29	29.73
1240.1	39.26	40.54	41.39	28.15	28.94	29.40
1320.1	37.56	38.56	39.24	28.18	28.83	29.20
1410.1	36.83	37.78	38.71	28.51	28.75	29.18
1490.1	35.83	36.48	37.25	28.96	29.00	29.24
1580.1	35.43	35.67	36.13	29.80	29.63	29.75
1660.1	35.28	35.34	35.72	30.86	30.89	31.05
1750.1	35.70	36.04	35.96	31.47	31.61	31.37
1830.1	35.74	36.23	36.22	31.48	31.07	30.57
1920.1	35.47	36.27	36.31	31.78	30.99	30.32
2000.1	34.85	35.43	35.54	32.12	30.86	30.35
2090.1	33.65	34.31	34.20	32.02	30.92	30.14
2170.1	33.14	33.78	33.73	32.42	31.25	30.49
2260.1	32.70	33.23	33.19	32.78	31.65	30.93
2340.1	32.01	32.41	32.59	34.31	32.68	32.03
2430.1	30.84	30.89	30.95	36.97	35.10	34.32
2510.1	30.21	30.06	30.06	39.00	38.55	38.57
2600.1	30.95	31.17	31.31	33.82	35.60	36.84
2680.1	32.70	33.23	33.78	29.68	30.98	31.69
2770.1	34.94	35.92	37.85	26.52	27.29	27.80
2850.1	35.20	36.44	38.94	24.54	25.08	25.50
2940.1	34.43	35.55	37.99	22.85	23.29	23.70
3020.1	33.21	34.16	35.56	21.77	22.36	22.58
3110.1	31.45	32.22	33.37	20.97	21.41	21.57
3190.1	29.89	30.80	31.96	20.32	20.78	20.95
3280.1	28.71	30.12	31.82	20.07	20.60	20.98
3360.1	28.82	31.36	34.07	20.41	21.41	22.17
3450.1	30.45	33.73	36.98	21.99	23.59	24.82

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
500.1	150.1	21.77	24.99	25.19
660.1	310.1	28.42	31.62	26.49
740.1	390.1	27.53	29.59	25.71
820.1	470.1	26.39	29.28	27.19
910.1	560.1	24.19	27.02	26.29
990.1	640.1	22.02	26.31	31.44
1080.1	730.1	25.84	33.14	37.45
1160.1	810.1	27.64	36.02	35.59
1250.1	900.1	27.03	34.35	37.24
1330.1	980.1	30.81	34.14	29.12
1420.1	1070.1	29.17	27.08	26.84
1500.1	1150.1	24.92	27.33	27.62
1590.1	1240.1	23.62	26.51	27.10
1670.1	1320.1	24.42	27.85	28.94
1760.1	1410.1	24.96	28.37	29.31
1840.1	1490.1	25.87	29.58	30.82
1930.1	1580.1	26.34	30.20	30.66
2010.1	1660.1	26.73	31.04	31.86
2100.1	1750.1	25.80	29.23	29.71
2180.1	1830.1	25.73	29.00	29.43
2270.1	1920.1	25.62	28.84	29.26
2350.1	2000.1	25.65	29.07	29.36
2440.1	2090.1	25.30	28.45	29.10
2520.1	2170.1	25.43	28.78	29.67
2610.1	2260.1	26.21	30.04	31.31
2690.1	2340.1	26.99	31.14	32.33
2780.1	2430.1	26.98	30.88	32.45
2860.1	2510.1	26.44	29.53	30.54
2950.1	2600.1	26.30	28.78	29.31
3030.1	2680.1	26.32	28.78	29.21
3120.1	2770.1	26.44	28.79	29.06
3200.1	2850.1	26.81	28.81	28.76
3290.1	2940.1	27.74	29.46	28.76
3370.1	3020.1	29.61	31.68	30.58
3460.1	3110.1	34.97	39.13	36.37
3540.1	3190.1	37.94	34.57	33.82
3630.1	3280.1	30.81	27.49	26.73
3710.1	3360.1	29.58	26.70	25.63
3800.1	3450.1	32.04	28.51	27.12

Frequency Mixer

HJK-ED9549/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3400MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
500.1	150.1	2.45	2.32	2.20	150.1	48.26	48.26	49.64	10.0	1.58	1.19	1.02
660.1	310.1	3.04	2.30	1.98	310.1	72.39	75.53	72.39	50.0	1.63	1.22	1.09
740.1	390.1	2.67	2.16	2.01	390.1	41.37	40.41	39.49	70.0	1.67	1.27	1.14
820.1	470.1	2.46	2.18	2.10	470.1	28.49	28.03	26.74	90.0	1.72	1.32	1.18
910.1	560.1	2.10	1.84	1.98	560.1	14.50	14.38	14.15	110.0	1.79	1.37	1.23
990.1	640.1	1.93	2.00	2.17	640.1	9.23	9.04	8.64	130.0	1.81	1.41	1.28
1080.1	730.1	2.00	2.07	2.19	730.1	4.48	4.37	4.13	150.0	1.89	1.47	1.34
1160.1	810.1	2.11	2.11	2.17	810.1	4.45	4.51	4.47	170.0	1.98	1.55	1.41
1250.1	900.1	2.26	2.15	2.15	900.1	7.47	7.63	7.66	190.0	2.06	1.62	1.46
1330.1	980.1	2.47	2.26	2.20	980.1	10.75	10.96	10.69	210.0	2.14	1.68	1.52
1420.1	1070.1	2.65	2.36	2.25	1070.1	12.61	12.52	12.01	230.0	2.22	1.75	1.59
1500.1	1150.1	2.71	2.42	2.31	1150.1	14.62	14.87	14.62	250.0	2.32	1.81	1.63
1590.1	1240.1	2.78	2.44	2.31	1240.1	16.41	16.41	15.96	270.0	2.46	1.93	1.73
1670.1	1320.1	2.83	2.39	2.24	1320.1	18.11	18.30	18.11	290.0	2.57	1.99	1.78
1760.1	1410.1	2.89	2.40	2.22	1410.1	18.50	18.70	18.70	310.0	2.68	2.08	1.86
1840.1	1490.1	2.93	2.42	2.23	1490.1	18.30	18.50	18.50	330.0	2.74	2.14	1.92
1930.1	1580.1	2.88	2.38	2.19	1580.1	17.05	17.22	16.89	350.0	2.85	2.21	1.96
2010.1	1660.1	2.85	2.32	2.12	1660.1	15.00	14.74	14.38	370.0	3.01	2.33	2.06
2100.1	1750.1	2.69	2.17	1.95	1750.1	13.49	13.39	12.89	390.0	3.13	2.40	2.12
2180.1	1830.1	2.59	2.08	1.86	1830.1	12.18	11.93	11.31	410.0	3.22	2.47	2.18
2270.1	1920.1	2.53	2.04	1.82	1920.1	10.89	10.69	10.07	430.0	3.31	2.54	2.23
2350.1	2000.1	2.50	2.00	1.81	2000.1	9.90	9.69	9.23	450.0	3.42	2.60	2.27
2440.1	2090.1	2.42	1.99	1.79	2090.1	8.81	8.64	8.31	470.0	3.58	2.71	2.36
2520.1	2170.1	2.39	2.00	1.81	2170.1	7.97	7.83	7.66	490.0	3.71	2.80	2.44
2610.1	2260.1	2.38	2.01	1.83	2260.1	6.73	6.61	6.44	510.0	3.79	2.82	2.45
2690.1	2340.1	2.30	1.94	1.79	2340.1	5.58	5.46	5.33	530.0	3.88	2.89	2.51
2780.1	2430.1	2.15	1.82	1.67	2430.1	4.42	4.30	4.17	550.0	3.94	2.94	2.52
2860.1	2510.1	1.97	1.68	1.53	2510.1	3.54	3.45	3.34	590.0	3.99	3.08	2.68
2950.1	2600.1	1.84	1.54	1.38	2600.1	2.89	2.84	2.80	610.0	3.94	3.06	2.66
3030.1	2680.1	1.73	1.43	1.28	2680.1	2.54	2.54	2.51	650.0	4.03	3.14	2.72
3120.1	2770.1	1.67	1.37	1.23	2770.1	2.51	2.55	2.56	670.0	4.16	3.23	2.80
3200.1	2850.1	1.66	1.39	1.25	2850.1	2.67	2.74	2.76	710.0	4.19	3.25	2.82
3290.1	2940.1	1.66	1.41	1.27	2940.1	3.05	3.15	3.17	730.0	4.20	3.26	2.82
3370.1	3020.1	1.69	1.44	1.30	3020.1	3.43	3.54	3.54	770.0	4.28	3.33	2.88
3460.1	3110.1	1.73	1.48	1.36	3110.1	3.91	4.01	3.97	790.0	4.28	3.34	2.90
3540.1	3190.1	1.77	1.53	1.39	3190.1	4.32	4.37	4.29	830.0	4.19	3.29	2.85
3630.1	3280.1	1.81	1.58	1.48	3280.1	4.61	4.55	4.43	850.0	4.27	3.32	2.88
3710.1	3360.1	1.77	1.57	1.50	3360.1	4.74	4.64	4.53	890.0	4.26	3.36	2.92
3800.1	3450.1	1.71	1.61	1.59	3450.1	4.83	4.82	4.79	910.0	4.17	3.29	2.85

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	5	15	29	37	41	32	50	42	56	57
1	-	11	+0	28	15	33	25	39	48	56	52	54
2	70	35	49	59	45	48	50	52	52	54	52	65
3	>90	43	46	55	54	52	47	54	54	56	66	65
4	85	70	59	62	70	70	67	73	68	72	74	73
5	>90	73	67	66	69	69	>84	68	67	69	>84	77
6	>90	81	81	>84	>84	>84	81	76	81	82	>84	>84
7	87	80	82	81	80	81	>84	>84	76	79	82	>84
8	82	>84	80	>84	79	83	83	79	79	83	81	>84
9	86	83	77	76	77	>84	76	80	>84	>84	83	>84
10	>90	>84	77	>84	82	>84	79	81	>84	>84	>84	>84
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 1650 MHz; 4.00 dBm.
LO IN: 1300 MHz; +17.00 dBm
IF OUT: 350 MHz; -6.34 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	26	40	45	59	48	53	54	67	56
1	-	14	+0	28	16	43	30	47	57	59	74	72
2	49	27	38	48	41	43	48	46	54	58	70	66
3	89	37	33	47	32	43	32	43	43	48	52	62
4	>90	57	55	47	61	54	51	65	59	59	62	65
5	90	65	59	51	67	58	46	61	47	55	53	58
6	86	65	71	72	69	67	65	70	63	72	66	76
7	85	76	81	68	74	71	60	73	56	73	52	72
8	>90	70	78	73	80	80	82	74	73	74	73	74
9	87	78	77	69	93	82	87	86	67	74	65	75
10	82	91	82	82	77	86	89	88	90	>94	85	78
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 1650 MHz; 14.00 dBm.
LO IN: 1300 MHz; +17.00 dBm
IF OUT: 350 MHz; 4.13 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.