

Frequency Mixer

HJK-ED9715/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=350MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
800.1	450.1	5.63	6.63	6.45
880.1	530.1	6.34	5.74	6.55
960.1	610.1	10.66	9.83	10.05
1040.1	690.1	10.54	9.05	9.86
1120.1	770.1	11.31	9.48	10.17
1200.1	850.1	11.58	9.67	10.50
1280.1	930.1	11.67	9.79	10.62
1360.1	1010.1	11.38	9.69	10.42
1440.1	1090.1	10.88	9.41	9.75
1520.1	1170.1	11.19	10.57	9.76
1600.1	1250.1	12.13	10.64	10.05
1680.1	1330.1	12.02	10.09	9.87
1760.1	1410.1	11.70	9.78	9.69
1840.1	1490.1	11.32	9.42	9.48
1920.1	1570.1	10.47	9.28	9.41
2020.1	1670.1	9.99	9.05	9.41
2100.1	1750.1	9.55	8.65	9.23
2200.1	1850.1	8.99	8.28	8.88
2280.1	1930.1	8.65	8.09	8.75
2380.1	2030.1	8.63	8.17	8.70
2460.1	2110.1	8.82	8.35	8.90
2560.1	2210.1	8.99	8.52	9.18
2640.1	2290.1	9.32	8.79	9.49
2740.1	2390.1	9.76	9.24	9.89
2820.1	2470.1	10.01	9.40	9.92
2920.1	2570.1	9.63	8.90	9.53
3000.1	2650.1	9.63	8.78	9.49
3100.1	2750.1	9.57	8.69	9.40
3180.1	2830.1	9.89	8.93	9.48
3280.1	2930.1	10.07	8.96	9.58
3360.1	3010.1	10.20	9.05	9.71
3460.1	3110.1	10.38	9.26	9.89
3540.1	3190.1	10.55	9.55	10.21
3640.1	3290.1	10.83	9.90	10.60
3720.1	3370.1	11.23	10.38	11.04
3820.1	3470.1	11.92	11.16	11.81
3900.1	3550.1	12.38	11.85	12.48
4000.1	3650.1	13.15	12.93	13.46

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
800.1	450.1	27.97	25.32	33.65
880.1	530.1	28.88	31.71	27.31
960.1	610.1	17.16	21.52	21.19
1040.1	690.1	24.67	24.35	20.94
1120.1	770.1	18.00	19.43	19.34
1200.1	850.1	17.38	19.30	19.21
1280.1	930.1	17.64	19.27	19.79
1360.1	1010.1	17.72	19.54	19.94
1440.1	1090.1	18.96	23.82	20.80
1520.1	1170.1	18.18	21.78	27.53
1600.1	1250.1	16.66	20.19	24.79
1680.1	1330.1	17.08	20.07	24.53
1760.1	1410.1	16.67	18.91	23.07
1840.1	1490.1	17.55	21.72	29.69
1920.1	1570.1	22.91	27.00	26.79
2020.1	1670.1	25.41	24.55	26.44
2100.1	1750.1	23.71	24.63	27.44
2200.1	1850.1	24.15	26.24	32.11
2280.1	1930.1	26.31	28.57	33.52
2380.1	2030.1	24.29	28.62	32.39
2460.1	2110.1	22.32	26.97	33.18
2560.1	2210.1	21.87	25.86	31.57
2640.1	2290.1	21.13	23.90	28.09
2740.1	2390.1	21.30	22.98	25.59
2820.1	2470.1	22.52	23.22	24.72
2920.1	2570.1	23.12	24.64	25.11
3000.1	2650.1	22.96	25.36	24.80
3100.1	2750.1	24.55	29.49	27.61
3180.1	2830.1	29.44	31.59	29.81
3280.1	2930.1	26.37	28.08	26.74
3360.1	3010.1	24.18	28.76	28.28
3460.1	3110.1	23.38	28.14	29.82
3540.1	3190.1	22.03	26.96	29.32
3640.1	3290.1	22.49	27.20	25.83
3720.1	3370.1	23.98	28.39	30.06
3820.1	3470.1	26.92	29.80	29.11
3900.1	3550.1	28.54	27.40	30.26
4000.1	3650.1	24.98	26.96	26.27

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
800.1	450.1	0.35	-0.05	0.38
880.1	530.1	0.89	0.60	0.81
960.1	610.1	-0.02	-0.01	0.10
1040.1	690.1	1.73	1.36	0.51
1120.1	770.1	9.92	6.65	0.38
1200.1	850.1	0.02	0.53	-0.24
1280.1	930.1	-0.58	0.02	-0.65
1360.1	1010.1	-0.96	-0.37	-0.74
1440.1	1090.1	-0.62	-0.07	-0.65
1520.1	1170.1	3.83	2.56	0.02
1600.1	1250.1	1.12	0.73	0.00
1680.1	1330.1	0.18	0.28	-0.12
1760.1	1410.1	-0.18	0.17	-0.20
1840.1	1490.1	-0.18	0.52	-0.07
1920.1	1570.1	-0.02	0.14	-0.01
2020.1	1670.1	0.20	0.23	-0.07
2100.1	1750.1	0.07	0.09	-0.13
2200.1	1850.1	0.00	0.09	-0.13
2280.1	1930.1	-0.08	0.02	-0.14
2380.1	2030.1	-0.14	-0.04	-0.18
2460.1	2110.1	-0.21	-0.10	-0.26
2560.1	2210.1	-0.22	-0.15	-0.32
2640.1	2290.1	-0.20	-0.18	-0.37
2740.1	2390.1	0.03	-0.09	-0.39
2820.1	2470.1	0.39	0.13	-0.36
2920.1	2570.1	0.58	0.24	-0.32
3000.1	2650.1	0.52	0.21	-0.38
3100.1	2750.1	0.63	0.31	-0.31
3180.1	2830.1	0.65	0.30	-0.24
3280.1	2930.1	0.45	0.23	-0.29
3360.1	3010.1	0.51	0.30	-0.26
3460.1	3110.1	0.59	0.39	-0.16
3540.1	3190.1	0.70	0.40	-0.16
3640.1	3290.1	0.70	0.49	-0.08
3720.1	3370.1	0.67	0.48	-0.02
3820.1	3470.1	0.55	0.45	-0.02
3900.1	3550.1	0.51	0.45	0.07
4000.1	3650.1	0.45	0.31	0.13

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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)=2442.1001MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2400.1001MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2484.1001MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1062.0	1380.1	12.96	10.0	2410.1	9.15	1170.0	1314.1	13.56
1003.6	1438.5	13.33	50.0	2450.1	8.67	1150.0	1334.1	13.47
945.1	1497.0	12.55	90.0	2490.1	8.62	1110.0	1374.1	13.13
886.7	1555.4	12.05	110.0	2510.1	8.84	1090.0	1394.1	12.91
828.2	1613.9	11.48	150.0	2550.1	8.99	1050.0	1434.1	13.13
769.8	1672.3	10.52	170.0	2570.1	9.01	1030.0	1454.1	13.12
711.3	1730.8	10.17	210.0	2610.1	9.33	990.0	1494.1	12.62
652.9	1789.2	9.46	230.0	2630.1	9.51	970.0	1514.1	12.52
594.4	1847.7	8.82	270.0	2670.1	9.55	930.0	1554.1	12.15
536.0	1906.1	8.66	290.0	2690.1	9.71	910.0	1574.1	11.93
477.6	1964.5	8.47	330.0	2730.1	9.95	870.0	1614.1	11.51
419.1	2023.0	8.42	350.0	2750.1	9.97	850.0	1634.1	11.30
360.7	2081.4	8.67	390.0	2790.1	10.23	810.0	1674.1	10.68
302.2	2139.9	8.55	410.0	2810.1	10.48	790.0	1694.1	10.57
243.8	2198.3	8.41	450.0	2850.1	10.46	750.0	1734.1	10.18
185.3	2256.8	8.44	470.0	2870.1	10.49	730.0	1754.1	9.90
126.9	2315.2	8.45	510.0	2910.1	10.82	690.0	1794.1	9.59
68.4	2373.7	8.49	530.0	2930.1	10.74	670.0	1814.1	9.37
10.0	2432.1	9.17	570.0	2970.1	10.76	630.0	1854.1	8.90
51.8	2493.9	8.71	590.0	2990.1	10.99	610.0	1874.1	8.81
114.4	2556.5	8.92	630.0	3030.1	11.04	570.0	1914.1	8.73
177.1	2619.2	9.31	650.0	3050.1	10.98	550.0	1934.1	8.59
239.8	2681.9	9.44	690.0	3090.1	11.29	510.0	1974.1	8.59
302.4	2744.5	9.82	710.0	3110.1	11.50	490.0	1994.1	8.60
344.2	2786.3	10.00	750.0	3150.1	11.41	450.0	2034.1	8.56
406.9	2849.0	10.33	770.0	3170.1	11.60	430.0	2054.1	8.56
448.7	2890.8	10.41	810.0	3210.1	11.95	390.0	2094.1	8.67
511.3	2953.4	10.49	830.0	3230.1	11.81	370.0	2114.1	8.62
553.1	2995.2	10.84	870.0	3270.1	11.89	330.0	2154.1	8.69
615.8	3057.9	10.79	890.0	3290.1	12.19	310.0	2174.1	8.69
657.6	3099.7	11.27	930.0	3330.1	12.15	270.0	2214.1	8.46
720.2	3162.3	11.33	950.0	3350.1	12.11	250.0	2234.1	8.49
762.0	3204.1	11.78	990.0	3390.1	12.71	210.0	2274.1	8.47
824.7	3266.8	11.81	1010.0	3410.1	12.67	190.0	2294.1	8.41
866.4	3308.5	12.13	1050.0	3450.1	12.67	150.0	2334.1	8.47
929.1	3371.2	12.33	1070.0	3470.1	13.14	130.0	2354.1	8.56
970.9	3413.0	12.50	1110.0	3510.1	13.59	90.0	2394.1	8.42
1033.6	3475.7	13.15	1130.0	3530.1	13.69	70.0	2414.1	8.62
1075.3	3517.4	13.13	1170.0	3570.1	14.22	30.0	2454.1	8.62
1138.0	3580.1	14.50	1190.0	3590.1	13.97	10.0	2474.1	9.08

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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
450.1	41.58	39.52	37.37	29.23	30.10	25.81
530.1	45.30	44.45	35.88	33.08	32.14	28.51
610.1	41.76	41.77	34.59	39.98	39.59	28.68
690.1	44.11	44.36	36.25	51.99	50.32	29.35
770.1	45.02	44.57	36.54	53.46	51.72	30.12
850.1	46.37	45.36	35.66	49.34	48.14	30.84
930.1	49.62	47.82	34.46	45.76	44.86	31.64
1010.1	47.83	45.55	32.72	41.64	41.15	35.15
1090.1	37.61	35.88	30.95	39.26	38.29	47.12
1170.1	32.92	31.91	30.38	34.36	33.86	35.99
1250.1	36.70	35.84	31.24	37.88	37.81	32.35
1330.1	38.15	36.32	31.41	43.00	43.50	30.67
1410.1	35.26	32.86	30.12	47.27	48.53	28.27
1490.1	32.47	30.50	30.32	36.54	36.33	27.98
1570.1	31.66	30.12	29.71	34.09	34.50	27.53
1670.1	30.06	27.94	28.13	32.29	31.91	26.33
1750.1	28.26	25.97	26.28	30.71	30.01	25.31
1850.1	26.18	23.96	24.95	28.78	27.62	24.91
1930.1	25.57	23.57	24.45	27.75	26.14	26.38
2030.1	28.33	27.26	26.78	29.16	27.54	32.45
2110.1	33.60	33.42	31.57	31.60	30.67	36.74
2210.1	41.03	40.00	38.06	32.42	32.13	33.49
2290.1	45.32	41.86	40.80	33.46	33.25	33.09
2390.1	47.34	42.91	39.76	34.58	34.00	34.83
2470.1	47.96	47.65	38.54	34.74	33.85	36.94
2570.1	43.65	53.70	35.99	34.25	33.04	48.08
2650.1	37.81	41.26	33.04	32.05	30.89	43.18
2750.1	31.86	31.57	30.19	28.44	27.54	33.01
2830.1	28.10	26.18	28.53	27.03	26.70	30.61
2930.1	25.15	23.26	26.37	27.70	28.07	31.49
3010.1	23.23	21.64	24.33	29.22	29.70	33.66
3110.1	21.44	20.48	22.28	32.77	32.91	37.84
3190.1	20.00	19.12	20.83	36.16	35.42	42.10
3290.1	18.52	17.95	19.35	39.82	37.42	43.31
3370.1	16.97	16.51	17.65	41.52	38.02	42.58
3470.1	15.72	15.39	16.55	39.05	36.01	37.73
3550.1	14.27	14.26	15.22	38.10	35.72	36.56
3650.1	12.98	12.81	13.68	37.84	35.19	35.04

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
800.1	450.1	50.31	24.78	24.37
880.1	530.1	23.13	24.99	23.38
960.1	610.1	17.49	16.63	17.21
1040.1	690.1	19.09	17.79	18.09
1120.1	770.1	20.88	19.77	19.43
1200.1	850.1	20.99	20.10	19.02
1280.1	930.1	19.95	19.33	17.31
1360.1	1010.1	18.08	17.19	15.14
1440.1	1090.1	15.45	14.44	13.45
1520.1	1170.1	16.00	16.10	13.92
1600.1	1250.1	22.31	22.96	15.82
1680.1	1330.1	26.41	26.93	18.49
1760.1	1410.1	28.49	28.05	20.82
1840.1	1490.1	28.16	25.87	21.26
1920.1	1570.1	26.99	25.19	22.59
2020.1	1670.1	26.58	26.18	24.26
2100.1	1750.1	26.58	26.46	24.10
2200.1	1850.1	25.48	25.64	23.52
2280.1	1930.1	24.46	25.20	23.34
2380.1	2030.1	22.44	23.63	22.37
2460.1	2110.1	21.25	22.90	21.87
2560.1	2210.1	19.66	21.10	20.65
2640.1	2290.1	18.72	19.69	20.34
2740.1	2390.1	17.93	18.61	20.32
2820.1	2470.1	18.52	19.21	21.75
2920.1	2570.1	19.82	19.98	21.75
3000.1	2650.1	20.23	19.75	20.27
3100.1	2750.1	19.62	18.93	18.60
3180.1	2830.1	20.67	19.89	19.28
3280.1	2930.1	22.56	22.10	21.00
3360.1	3010.1	22.68	22.52	21.75
3460.1	3110.1	22.41	22.34	22.02
3540.1	3190.1	21.82	21.92	21.72
3640.1	3290.1	21.06	21.23	21.35
3720.1	3370.1	20.05	20.14	20.39
3820.1	3470.1	19.39	19.57	19.99
3900.1	3550.1	18.82	19.05	19.58
4000.1	3650.1	17.62	17.97	18.49

Frequency Mixer

HJK-ED9715/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2134MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
800.1	450.1	1.36	1.71	1.07	450.1	2.07	1.46	6.56	130.1	1.26	1.42	1.59
880.1	530.1	1.50	1.41	1.30	530.1	26.33	25.94	7.90	190.1	1.39	1.49	1.62
960.1	610.1	1.68	1.38	1.38	610.1	51.10	51.10	12.52	250.1	1.54	1.60	1.68
1040.1	690.1	2.40	1.88	1.68	690.1	66.82	66.82	17.05	310.1	1.65	1.67	1.72
1120.1	770.1	2.92	2.29	1.95	770.1	54.29	52.65	18.50	370.1	1.84	1.83	1.82
1200.1	850.1	3.31	2.56	2.11	850.1	49.64	48.26	19.76	430.1	1.96	1.89	1.84
1280.1	930.1	3.60	2.81	2.19	930.1	46.96	45.72	21.46	490.1	2.12	2.00	1.99
1360.1	1010.1	3.67	2.93	2.30	1010.1	40.41	38.61	23.18	550.1	2.31	2.14	2.12
1440.1	1090.1	3.52	2.81	2.42	1090.1	36.20	33.42	25.56	610.1	2.44	2.23	2.16
1520.1	1170.1	3.01	2.45	2.38	1170.1	27.59	27.16	19.76	670.1	2.63	2.39	2.27
1600.1	1250.1	3.85	3.19	2.34	1250.1	26.33	27.16	12.99	730.1	2.75	2.46	2.32
1680.1	1330.1	4.11	3.39	2.35	1330.1	24.48	24.48	10.07	790.1	2.84	2.50	2.33
1760.1	1410.1	3.83	3.12	2.33	1410.1	22.29	21.73	8.51	850.1	2.97	2.61	2.40
1840.1	1490.1	3.33	2.63	2.13	1490.1	19.32	19.32	7.14	910.1	3.10	2.72	2.45
1920.1	1570.1	3.01	2.43	2.07	1570.1	17.39	17.05	5.93	950.1	3.15	2.75	2.46
2020.1	1670.1	2.62	2.20	1.98	1670.1	13.70	13.49	4.44	1010.1	3.31	2.93	2.55
2100.1	1750.1	2.41	2.03	1.85	1750.1	10.43	10.19	3.44	1050.1	3.25	2.88	2.57
2200.1	1850.1	2.06	1.74	1.63	1850.1	6.89	6.63	2.42	1110.1	3.30	2.93	2.78
2280.1	1930.1	1.82	1.53	1.45	1930.1	5.31	5.12	1.99	1150.1	3.34	2.96	2.83
2380.1	2030.1	1.58	1.33	1.28	2030.1	4.37	4.28	1.86	1210.1	3.38	3.01	2.86
2460.1	2110.1	1.50	1.24	1.22	2110.1	4.78	4.79	2.17	1250.1	3.40	3.04	2.86
2560.1	2210.1	1.48	1.25	1.26	2210.1	6.26	6.39	2.99	1310.1	3.29	2.97	2.77
2640.1	2290.1	1.58	1.36	1.34	2290.1	7.50	7.73	3.76	1350.1	3.29	2.99	2.78
2740.1	2390.1	1.72	1.50	1.43	2390.1	8.95	9.23	4.77	1410.1	3.20	2.93	2.72
2820.1	2470.1	1.85	1.60	1.42	2470.1	9.90	10.13	5.52	1450.1	3.15	2.91	2.69
2920.1	2570.1	1.82	1.55	1.33	2570.1	10.69	10.89	6.46	1510.1	3.01	2.79	2.58
3000.1	2650.1	1.74	1.48	1.26	2650.1	10.56	10.56	6.89	1550.1	2.95	2.76	2.56
3100.1	2750.1	1.62	1.37	1.21	2750.1	10.02	9.90	7.41	1610.1	2.77	2.59	2.41
3180.1	2830.1	1.56	1.31	1.15	2830.1	8.90	8.60	6.66	1650.1	2.69	2.53	2.36
3280.1	2930.1	1.55	1.34	1.21	2930.1	8.77	8.51	6.21	1710.1	2.53	2.40	2.25
3360.1	3010.1	1.49	1.34	1.27	3010.1	8.51	8.23	5.79	1750.1	2.42	2.30	2.17
3460.1	3110.1	1.52	1.45	1.42	3110.1	8.12	7.83	5.54	1810.1	2.29	2.17	2.05
3540.1	3190.1	1.56	1.53	1.52	3190.1	8.05	7.73	5.46	1850.1	2.17	2.06	1.95
3640.1	3290.1	1.66	1.65	1.62	3290.1	7.47	7.20	5.20	1910.1	2.04	1.90	1.81
3720.1	3370.1	1.68	1.68	1.65	3370.1	7.17	7.00	5.30	1950.1	1.93	1.80	1.71
3820.1	3470.1	1.72	1.69	1.60	3470.1	6.53	6.39	5.13	2010.1	1.81	1.64	1.57
3900.1	3550.1	1.68	1.62	1.51	3550.1	6.05	6.03	5.20	2050.1	1.72	1.54	1.47
4000.1	3650.1	1.59	1.48	1.41	3650.1	5.25	5.22	4.84	2110.1	1.61	1.40	1.34

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	10	16	18	26	21	31	43	56	71
1	-	33	+0	32	19	44	39	38	42	46	51	67
2	66	53	49	55	61	64	59	65	67	66	62	72
3	>90	75	68	>81	67	77	70	>81	76	>81	80	>81
4	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
5	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	---	---	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2442.1 MHz; 0.00 dBm.
LO IN: 2092.1 MHz; +17.00 dBm
IF OUT: 350 MHz; -8.9 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	35	20	26	28	35	32	42	54	68	79
1	-	33	+0	31	19	44	40	38	45	47	55	71
2	46	42	39	45	54	56	50	56	61	58	55	62
3	77	55	48	62	45	57	49	64	56	63	62	68
4	>90	65	76	73	68	72	60	81	64	78	82	86
5	>90	84	80	88	84	83	79	75	77	80	84	87
6	>90	>91	>91	89	>91	90	87	>91	79	83	85	>91
7	>90	>91	>91	91	>91	>91	88	>91	86	88	88	>91
8	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	91	>91
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
10	---	---	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2442.1 MHz; 10.00 dBm.
LO IN: 2092.1 MHz; +17.00 dBm
IF OUT: 350 MHz; 0.94 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.