

Frequency Mixer

HJK-ED9605/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=55MHz (dB)		
		@LO (dBm)		
		+19	+21	+23
10.1	65.1	4.94	4.94	6.15
90.1	145.1	5.51	5.52	6.59
170.1	225.1	5.64	5.58	6.57
250.1	305.1	5.83	5.67	6.60
330.1	385.1	5.97	5.80	6.77
410.1	465.1	6.09	5.94	6.95
490.1	545.1	6.11	6.02	7.05
570.1	625.1	6.22	6.17	7.20
650.1	705.1	6.35	6.30	7.35
730.1	785.1	6.59	6.54	7.49
810.1	865.1	6.84	6.80	7.65
890.1	945.1	7.00	6.97	7.72
970.1	1025.1	7.13	7.11	7.74
1050.1	1105.1	7.18	7.17	7.70
1130.1	1185.1	7.23	7.21	7.64
1210.1	1265.1	7.30	7.26	7.56
1290.1	1345.1	7.34	7.29	7.51
1370.1	1425.1	7.34	7.29	7.45
1450.1	1505.1	7.29	7.24	7.37
1550.1	1605.1	7.36	7.30	7.38
1630.1	1685.1	7.41	7.33	7.37
1730.1	1785.1	7.65	7.56	7.53
1810.1	1865.1	7.74	7.65	7.63
1910.1	1965.1	7.84	7.74	7.71
1990.1	2045.1	7.79	7.70	7.66
2090.1	2145.1	7.74	7.68	7.63
2170.1	2225.1	7.76	7.68	7.63
2270.1	2325.1	7.88	7.79	7.72
2350.1	2405.1	7.99	7.89	7.81
2450.1	2505.1	8.11	8.00	7.90
2530.1	2585.1	8.34	8.24	8.10
2630.1	2685.1	8.62	8.52	8.35
2710.1	2765.1	9.00	8.85	8.62
2810.1	2865.1	9.37	9.19	8.92
2890.1	2945.1	9.67	9.45	9.18
2990.1	3045.1	10.05	9.84	9.52
3070.1	3125.1	10.30	10.07	9.73
3170.1	3225.1	10.72	10.46	10.11
3250.1	3305.1	10.94	10.65	10.32
3350.1	3405.1	11.30	10.98	10.66

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+19	+21	+23
10.1	65.1	28.33	27.53	25.81
90.1	145.1	21.95	21.80	23.19
170.1	225.1	20.52	21.74	24.13
250.1	305.1	20.36	22.57	25.26
330.1	385.1	22.60	25.55	27.36
410.1	465.1	24.99	28.54	29.39
490.1	545.1	29.14	31.81	31.51
570.1	625.1	30.33	30.17	35.20
650.1	705.1	28.63	28.79	34.79
730.1	785.1	27.16	27.58	30.53
810.1	865.1	27.29	27.95	29.96
890.1	945.1	26.73	27.57	29.93
970.1	1025.1	25.89	26.68	28.53
1050.1	1105.1	25.97	26.71	28.07
1130.1	1185.1	26.21	26.83	28.39
1210.1	1265.1	26.35	26.85	27.94
1290.1	1345.1	26.18	26.63	27.18
1370.1	1425.1	27.24	27.32	27.32
1450.1	1505.1	28.43	28.16	27.83
1550.1	1605.1	28.89	28.45	28.09
1630.1	1685.1	28.83	28.25	27.82
1730.1	1785.1	28.42	27.67	27.23
1810.1	1865.1	27.36	27.13	26.83
1910.1	1965.1	25.61	25.57	25.42
1990.1	2045.1	24.31	24.42	24.36
2090.1	2145.1	22.80	23.13	23.21
2170.1	2225.1	21.94	22.43	22.74
2270.1	2325.1	21.60	21.98	22.37
2350.1	2405.1	21.54	22.15	22.68
2450.1	2505.1	21.26	21.99	22.72
2530.1	2585.1	21.38	22.18	22.96
2630.1	2685.1	21.82	22.84	23.58
2710.1	2765.1	22.38	23.35	23.96
2810.1	2865.1	22.45	23.72	24.69
2890.1	2945.1	22.62	23.91	25.10
2990.1	3045.1	23.56	24.42	26.00
3070.1	3125.1	24.78	25.07	26.36
3170.1	3225.1	26.92	27.27	27.78
3250.1	3305.1	27.60	28.78	29.50
3350.1	3405.1	27.60	30.00	30.95

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+16dBm (dB)		
		@LO (dBm)		
		+19	+21	+23
10.1	65.1	2.27	1.99	1.76
90.1	145.1	2.05	1.81	1.61
170.1	225.1	2.10	1.77	1.82
250.1	305.1	2.20	1.93	2.13
330.1	385.1	2.34	2.05	1.95
410.1	465.1	2.36	2.07	2.04
490.1	545.1	2.39	2.05	2.19
570.1	625.1	2.36	1.97	1.85
650.1	705.1	2.27	1.89	1.75
730.1	785.1	2.00	1.64	1.52
810.1	865.1	1.68	1.35	1.36
890.1	945.1	1.42	1.10	1.16
970.1	1025.1	1.28	0.98	0.78
1050.1	1105.1	1.24	0.91	0.65
1130.1	1185.1	1.16	0.85	0.60
1210.1	1265.1	1.06	0.78	0.55
1290.1	1345.1	0.99	0.73	0.49
1370.1	1425.1	1.01	0.74	0.49
1450.1	1505.1	1.05	0.77	0.50
1550.1	1605.1	1.10	0.80	0.54
1630.1	1685.1	1.22	0.93	0.67
1730.1	1785.1	1.25	0.98	0.72
1810.1	1865.1	1.28	1.03	0.78
1910.1	1965.1	1.30	1.05	0.81
1990.1	2045.1	1.38	1.13	0.91
2090.1	2145.1	1.37	1.10	0.87
2170.1	2225.1	1.43	1.14	0.89
2270.1	2325.1	1.47	1.15	0.87
2350.1	2405.1	1.51	1.13	0.85
2450.1	2505.1	1.49	1.07	0.76
2530.1	2585.1	1.47	1.02	0.66
2630.1	2685.1	1.43	0.94	0.51
2710.1	2765.1	1.41	0.89	0.42
2810.1	2865.1	1.43	0.82	0.33
2890.1	2945.1	1.40	0.75	0.24
2990.1	3045.1	1.26	0.72	0.17
3070.1	3125.1	1.22	0.66	0.31
3170.1	3225.1	1.20	0.60	0.26
3250.1	3305.1	1.13	0.60	0.25
3350.1	3405.1	1.12	0.57	0.24

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=250.1MHz (dB)
		@LO (dBm)
		+21
240.0	10.1	5.68
227.1	23.0	5.70
214.2	35.9	5.67
203.5	46.6	5.72
190.6	59.5	5.78
179.8	70.3	5.77
166.9	83.2	5.80
156.2	93.9	5.85
143.3	106.8	5.78
132.5	117.6	5.93
119.6	130.5	5.93
108.9	141.2	5.88
96.0	154.1	5.89
85.2	164.9	5.91
72.3	177.8	5.94
61.6	188.5	6.01
48.7	201.4	5.95
37.9	212.2	5.95
25.0	225.1	5.97
14.3	235.8	6.04
124.1	374.2	5.67
314.3	564.4	5.43
542.5	792.6	5.76
732.7	982.8	6.46
960.9	1211.0	7.28
1151.1	1401.2	7.58
1379.3	1629.4	7.60
1569.5	1819.6	7.92
1797.8	2047.9	8.55
1987.9	2238.0	8.96
2216.2	2466.3	8.98
2406.4	2656.5	8.70
2634.6	2884.7	8.84
2824.8	3074.9	9.22
3053.0	3303.1	9.44
3243.2	3493.3	9.77
3471.4	3721.5	9.89
3661.6	3911.7	10.19
3889.8	4139.9	10.78
4080.0	4330.1	11.01

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=100.1MHz (dB)
		@LO (dBm)
		+21
10.0	110.1	5.98
110.0	210.1	5.59
210.0	310.1	5.35
310.0	410.1	5.44
410.0	510.1	5.37
510.0	610.1	5.52
610.0	710.1	5.74
710.0	810.1	6.01
810.0	910.1	6.39
910.0	1010.1	6.71
1010.0	1110.1	7.00
1110.0	1210.1	7.23
1210.0	1310.1	7.42
1310.0	1410.1	7.47
1410.0	1510.1	7.59
1510.0	1610.1	7.70
1610.0	1710.1	7.91
1710.0	1810.1	8.14
1810.0	1910.1	8.36
1910.0	2010.1	8.56
2010.0	2110.1	8.69
2110.0	2210.1	8.79
2210.0	2310.1	8.94
2310.0	2410.1	8.91
2410.0	2510.1	8.78
2510.0	2610.1	8.73
2610.0	2710.1	8.69
2710.0	2810.1	8.75
2810.0	2910.1	8.90
2910.0	3010.1	9.16
3010.0	3110.1	9.29
3110.0	3210.1	9.35
3210.0	3310.1	9.43
3310.0	3410.1	9.66
3410.0	3510.1	9.83
3510.0	3610.1	9.89
3630.0	3730.1	10.12
3730.0	3830.1	10.34
3850.0	3950.1	10.77
3950.0	4050.1	10.90

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=400.1MHz (dB)
		@LO (dBm)
		+21
390.0	10.1	5.94
380.0	20.1	5.91
370.0	30.1	5.93
360.0	40.1	6.04
350.0	50.1	6.05
340.0	60.1	6.14
330.0	70.1	6.12
320.0	80.1	6.19
310.0	90.1	6.19
300.0	100.1	6.27
290.0	110.1	6.26
280.0	120.1	6.34
270.0	130.1	6.33
260.0	140.1	6.39
250.0	150.1	6.48
240.0	160.1	6.47
230.0	170.1	6.49
220.0	180.1	6.48
210.0	190.1	6.55
200.0	200.1	6.41
190.0	210.1	6.51
180.0	220.1	6.48
170.0	230.1	6.40
160.0	240.1	6.38
150.0	250.1	6.42
140.0	260.1	6.40
130.0	270.1	6.40
120.0	280.1	6.48
110.0	290.1	6.36
100.0	300.1	6.35
90.0	310.1	6.11
80.0	320.1	6.16
70.0	330.1	6.21
60.0	340.1	6.22
50.0	350.1	6.19
40.0	360.1	6.20
30.0	370.1	6.12
25.0	375.1	6.19
15.0	385.1	6.09
10.0	390.1	6.55

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+19	+21	+23	+19	+21	+23
65.1	46.40	47.65	50.03	56.11	58.90	60.47
145.1	44.83	44.98	46.17	57.12	57.07	55.87
225.1	42.45	42.41	43.40	56.34	53.30	51.39
305.1	41.28	41.06	42.55	53.68	50.63	49.20
385.1	40.70	40.35	41.29	50.19	48.39	47.49
465.1	40.33	39.84	41.34	47.27	46.34	45.93
545.1	40.40	39.75	41.33	44.78	44.41	44.50
625.1	39.92	39.40	40.81	43.24	43.12	43.58
705.1	39.88	39.52	41.07	42.34	42.32	42.95
785.1	39.99	39.97	41.63	42.00	42.03	42.66
865.1	40.86	41.19	42.96	41.62	41.64	42.19
945.1	42.30	43.29	45.39	41.04	40.96	41.32
1025.1	44.18	46.03	48.94	40.63	40.35	40.74
1105.1	46.05	49.96	54.56	40.16	39.87	40.25
1185.1	47.34	55.12	64.04	39.28	39.08	39.58
1265.1	46.64	51.27	50.36	38.32	38.28	38.95
1345.1	46.30	53.02	53.81	37.44	37.48	37.97
1425.1	45.99	52.91	55.64	36.88	36.93	37.47
1505.1	46.33	51.83	53.29	36.64	36.56	37.19
1605.1	46.76	51.12	52.21	36.64	36.48	37.13
1685.1	46.95	50.95	52.18	36.79	36.50	37.11
1785.1	47.46	51.19	52.71	37.48	37.23	37.84
1865.1	46.61	50.88	53.08	38.46	38.12	38.63
1965.1	43.68	46.19	48.01	39.80	39.79	40.40
2045.1	41.16	42.60	44.08	41.07	41.10	41.78
2145.1	38.80	39.96	41.07	42.72	43.04	43.97
2225.1	37.23	38.20	39.27	45.10	45.93	47.35
2325.1	36.10	37.02	37.82	49.06	50.01	51.04
2405.1	34.90	35.77	36.64	47.54	48.19	48.30
2505.1	33.61	34.51	35.31	42.11	42.74	43.14
2585.1	32.62	33.59	34.34	40.10	40.77	41.15
2685.1	31.96	33.06	33.71	39.48	40.27	41.47
2765.1	31.96	33.04	33.70	40.32	41.21	42.65
2865.1	31.79	32.86	33.46	41.21	42.27	44.27
2945.1	31.64	32.68	33.16	41.62	42.46	42.79
3045.1	31.88	32.77	33.04	41.21	41.89	40.63
3125.1	32.27	33.12	33.30	40.36	41.13	39.62
3225.1	32.89	33.55	33.66	39.94	40.65	39.56
3305.1	33.55	34.22	34.16	39.44	40.17	39.79
3405.1	34.38	34.90	34.87	39.03	39.71	39.79

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+19	+21	+23
10.1	65.1	34.91	35.44	35.75
90.1	145.1	36.19	36.72	37.44
170.1	225.1	37.32	37.58	37.94
250.1	305.1	37.77	38.16	38.31
330.1	385.1	38.30	38.32	37.98
410.1	465.1	39.83	39.90	39.31
490.1	545.1	41.22	41.59	41.15
570.1	625.1	42.48	42.51	41.88
650.1	705.1	44.09	43.77	43.36
730.1	785.1	45.95	45.40	44.62
810.1	865.1	47.87	47.07	45.57
890.1	945.1	48.65	48.24	46.39
970.1	1025.1	47.69	48.01	47.31
1050.1	1105.1	45.64	46.12	46.11
1130.1	1185.1	43.64	44.27	44.44
1210.1	1265.1	42.23	43.13	43.17
1290.1	1345.1	40.81	41.37	41.53
1370.1	1425.1	39.58	40.14	40.32
1450.1	1505.1	39.28	39.88	40.10
1550.1	1605.1	39.71	39.81	39.98
1630.1	1685.1	40.13	40.19	40.05
1730.1	1785.1	41.00	40.94	40.90
1810.1	1865.1	42.70	42.41	42.07
1910.1	1965.1	46.03	45.92	45.90
1990.1	2045.1	47.88	47.57	47.10
2090.1	2145.1	46.13	45.92	45.75
2170.1	2225.1	44.45	43.46	42.63
2270.1	2325.1	43.39	42.32	41.30
2350.1	2405.1	42.74	41.92	40.86
2450.1	2505.1	42.06	41.59	40.67
2530.1	2585.1	41.39	41.55	41.32
2630.1	2685.1	40.94	40.79	40.66
2710.1	2765.1	40.38	39.78	39.26
2810.1	2865.1	39.76	38.96	38.01
2890.1	2945.1	40.31	39.76	39.03
2990.1	3045.1	41.63	41.50	40.66
3070.1	3125.1	42.31	42.41	41.66
3170.1	3225.1	45.21	45.93	45.09
3250.1	3305.1	49.79	50.91	50.15
3350.1	3405.1	52.32	58.67	63.17

Frequency Mixer

HJK-ED9605/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=490MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+19	+21	+23		+19	+21	+23		+19	+21	+23
10.1	65.1	1.39	1.34	1.36	65.1	1.83	2.42	2.95	10.0	1.15	1.07	1.02
90.1	145.1	1.38	1.34	1.34	145.1	1.74	2.20	2.57	20.0	1.16	1.08	1.05
170.1	225.1	1.45	1.41	1.42	225.1	1.66	2.08	2.18	30.0	1.15	1.07	1.04
250.1	305.1	1.58	1.53	1.50	305.1	1.59	1.98	2.13	40.0	1.14	1.07	1.04
330.1	385.1	1.74	1.68	1.63	385.1	1.51	1.88	2.13	50.0	1.16	1.09	1.06
410.1	465.1	1.91	1.83	1.76	465.1	1.45	1.80	2.14	60.0	1.16	1.09	1.07
490.1	545.1	2.10	2.02	1.91	545.1	1.39	1.72	1.95	70.0	1.15	1.09	1.06
570.1	625.1	2.31	2.20	2.06	625.1	1.33	1.65	1.60	80.0	1.16	1.10	1.08
650.1	705.1	2.45	2.33	2.17	705.1	1.28	1.57	1.60	90.0	1.17	1.12	1.09
730.1	785.1	2.61	2.46	2.28	785.1	1.21	1.47	1.63	100.0	1.18	1.12	1.10
810.1	865.1	2.69	2.52	2.34	865.1	1.14	1.37	1.66	110.0	1.18	1.12	1.10
890.1	945.1	2.68	2.50	2.34	945.1	1.08	1.29	1.69	120.0	1.17	1.13	1.11
970.1	1025.1	2.65	2.46	2.31	1025.1	1.03	1.25	1.72	130.0	1.17	1.13	1.12
1050.1	1105.1	2.57	2.39	2.25	1105.1	1.05	1.25	1.73	140.0	1.18	1.15	1.14
1130.1	1185.1	2.53	2.35	2.21	1185.1	1.13	1.29	1.71	150.0	1.19	1.16	1.15
1210.1	1265.1	2.46	2.29	2.16	1265.1	1.21	1.37	1.67	160.0	1.19	1.17	1.16
1290.1	1345.1	2.33	2.18	2.06	1345.1	1.29	1.46	1.63	170.0	1.20	1.17	1.16
1370.1	1425.1	2.23	2.09	1.98	1425.1	1.38	1.55	1.61	180.0	1.20	1.17	1.16
1450.1	1505.1	2.11	1.98	1.88	1505.1	1.44	1.63	1.69	190.0	1.19	1.17	1.17
1550.1	1605.1	1.96	1.86	1.74	1605.1	1.50	1.71	1.68	200.0	1.20	1.19	1.19
1630.1	1685.1	1.89	1.79	1.69	1685.1	1.54	1.77	1.67	210.0	1.21	1.19	1.20
1730.1	1785.1	1.80	1.72	1.63	1785.1	1.58	1.81	1.81	220.0	1.20	1.19	1.20
1810.1	1865.1	1.71	1.64	1.56	1865.1	1.64	1.87	1.81	230.0	1.21	1.21	1.22
1910.1	1965.1	1.63	1.54	1.50	1965.1	1.68	1.92	1.59	240.0	1.22	1.22	1.23
1990.1	2045.1	1.57	1.48	1.45	2045.1	1.74	1.98	1.61	260.0	1.21	1.21	1.23
2090.1	2145.1	1.47	1.40	1.37	2145.1	1.80	2.02	1.62	270.0	1.23	1.24	1.25
2170.1	2225.1	1.41	1.35	1.31	2225.1	1.84	2.06	1.65	290.0	1.22	1.22	1.24
2270.1	2325.1	1.31	1.26	1.22	2325.1	1.88	2.09	1.69	300.0	1.22	1.24	1.27
2350.1	2405.1	1.24	1.20	1.17	2405.1	1.91	2.12	1.73	320.0	1.26	1.27	1.29
2450.1	2505.1	1.14	1.13	1.11	2505.1	1.96	2.15	1.79	330.0	1.24	1.26	1.29
2530.1	2585.1	1.10	1.11	1.11	2585.1	2.00	2.17	1.83	350.0	1.27	1.30	1.33
2630.1	2685.1	1.17	1.21	1.23	2685.1	2.06	2.22	1.90	360.0	1.26	1.29	1.32
2710.1	2765.1	1.25	1.28	1.31	2765.1	2.08	2.22	1.92	380.0	1.28	1.33	1.36
2810.1	2865.1	1.34	1.37	1.41	2865.1	2.13	2.25	1.99	390.0	1.30	1.33	1.37
2890.1	2945.1	1.43	1.45	1.49	2945.1	2.16	2.25	2.04	410.0	1.29	1.34	1.38
2990.1	3045.1	1.52	1.54	1.58	3045.1	2.17	2.24	2.06	420.0	1.32	1.38	1.42
3070.1	3125.1	1.62	1.63	1.67	3125.1	2.22	2.28	2.13	440.0	1.29	1.36	1.40
3170.1	3225.1	1.73	1.73	1.77	3225.1	2.19	2.24	2.13	450.0	1.33	1.40	1.44
3250.1	3305.1	1.82	1.82	1.85	3305.1	2.18	2.22	2.17	470.0	1.33	1.40	1.44
3350.1	3405.1	1.90	1.88	1.90	3405.1	2.14	2.16	2.16	480.0	1.32	1.40	1.45

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	23	34	42	48	36	43	35	42	36
1	-	33	+0	50	11	63	20	60	29	55	30	61
2	70	63	68	68	66	70	66	91	71	78	71	71
3	>100	86	55	89	55	84	55	85	57	89	58	89
4	>100	>95	92	>95	89	>95	89	94	>95	93	>95	93
5	>100	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
6	>100	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
7	>100	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
8	>100	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
9	>100	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
10	>100	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; 1.00 dBm.
LO IN: 305.1 MHz; +21.00 dBm
IF OUT: 55 MHz; -5.28 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	32	32	44	51	57	47	55	48	56	51
1	-	34	+0	45	11	57	19	60	27	63	33	70
2	51	56	61	58	58	60	59	62	71	61	65	57
3	76	52	52	65	45	62	36	57	54	66	53	65
4	>100	72	73	66	72	64	70	68	71	74	75	80
5	>100	72	55	79	49	80	48	72	48	74	54	75
6	>100	96	79	85	79	83	81	85	85	82	80	82
7	>100	85	62	86	58	79	56	86	58	78	68	80
8	>100	94	99	93	90	86	86	82	86	81	83	85
9	>100	87	76	92	80	94	78	94	68	99	65	88
10	>100	84	88	87	91	88	88	85	84	86	83	95
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; 11.00 dBm.
LO IN: 305.1 MHz; +21.00 dBm
IF OUT: 55 MHz; 3.17 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.