

Frequency Mixer

HJK-ED9561/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=141MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
50.1	191.1	14.39	13.74	13.29
130.8	271.8	9.30	8.55	7.96
211.6	352.6	8.45	7.57	6.95
292.3	433.3	8.21	7.34	6.66
373.1	514.1	8.64	7.87	7.66
453.8	594.8	8.65	7.61	6.98
534.6	675.6	9.47	7.84	6.94
615.3	756.3	9.26	7.67	6.88
696.1	837.1	9.09	7.62	6.88
776.8	917.8	8.87	7.60	6.93
857.6	998.6	8.77	7.54	6.95
938.3	1079.3	8.66	7.44	6.90
1019.0	1160.0	8.52	7.39	6.88
1099.8	1240.8	8.42	7.50	7.08
1180.5	1321.5	8.07	7.43	7.13
1261.3	1402.3	7.77	7.36	7.20
1342.0	1483.0	7.59	7.29	7.20
1422.8	1563.8	7.46	7.27	7.22
1503.5	1644.5	7.43	7.33	7.33
1584.3	1725.3	7.49	7.47	7.52
1665.0	1806.0	7.58	7.63	7.72
1745.8	1886.8	7.66	7.74	7.88
1826.5	1967.5	7.67	7.73	7.87
1907.2	2048.2	7.71	7.68	7.79
1988.0	2129.0	7.80	7.63	7.66
2068.7	2209.7	7.97	7.63	7.59
2149.5	2290.5	8.22	7.73	7.59
2230.2	2371.2	8.47	7.86	7.61
2311.0	2452.0	8.84	8.08	7.73
2391.7	2532.7	9.25	8.29	7.85
2472.5	2613.5	9.59	8.52	8.02
2573.4	2714.4	10.02	8.90	8.34
2654.1	2795.1	10.24	9.13	8.49
2755.1	2896.1	10.48	9.34	8.66
2835.8	2976.8	10.64	9.47	8.75
2936.7	3077.7	11.08	9.72	8.94
3017.5	3158.5	11.27	9.88	9.06
3118.4	3259.4	11.84	10.39	9.45
3199.2	3340.2	12.30	10.90	9.87
3300.1	3441.1	13.14	11.81	10.62

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
50.1	191.1	23.61	25.29	27.71
130.8	271.8	19.21	20.25	21.59
211.6	352.6	18.46	20.16	21.39
292.3	433.3	17.34	18.66	20.14
373.1	514.1	14.75	16.10	20.34
453.8	594.8	16.51	17.65	19.84
534.6	675.6	22.02	18.98	19.62
615.3	756.3	26.04	20.22	20.95
696.1	837.1	23.48	20.91	21.64
776.8	917.8	21.87	21.06	22.50
857.6	998.6	22.71	21.88	23.65
938.3	1079.3	22.04	21.51	23.92
1019.0	1160.0	21.69	21.69	24.29
1099.8	1240.8	21.60	22.22	24.31
1180.5	1321.5	22.91	24.90	26.64
1261.3	1402.3	26.05	27.65	28.29
1342.0	1483.0	25.62	28.14	29.52
1422.8	1563.8	26.84	29.38	30.74
1503.5	1644.5	28.35	30.46	31.65
1584.3	1725.3	29.83	31.79	32.77
1665.0	1806.0	30.20	33.03	34.00
1745.8	1886.8	29.60	33.33	34.96
1826.5	1967.5	27.89	32.37	35.31
1907.2	2048.2	26.37	30.83	34.89
1988.0	2129.0	24.19	29.13	32.86
2068.7	2209.7	22.59	26.97	31.46
2149.5	2290.5	21.88	25.30	29.38
2230.2	2371.2	21.49	24.15	28.04
2311.0	2452.0	21.06	23.40	27.05
2391.7	2532.7	20.76	23.04	26.45
2472.5	2613.5	20.38	22.30	25.81
2573.4	2714.4	20.20	22.11	25.87
2654.1	2795.1	20.05	21.68	25.28
2755.1	2896.1	19.55	21.17	24.35
2835.8	2976.8	19.18	20.85	23.94
2936.7	3077.7	18.36	20.34	23.17
3017.5	3158.5	18.02	20.11	22.98
3118.4	3259.4	17.49	19.91	22.78
3199.2	3340.2	17.31	19.53	22.38
3300.1	3441.1	17.37	19.14	21.83

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+19dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
50.1	191.1	-0.55	-0.35	-0.21
130.8	271.8	1.78	1.10	0.42
211.6	352.6	3.96	2.87	1.92
292.3	433.3	5.00	3.83	2.58
373.1	514.1	5.74	4.43	2.84
453.8	594.8	7.41	5.72	3.84
534.6	675.6	4.69	4.12	3.36
615.3	756.3	4.05	3.48	2.67
696.1	837.1	4.10	3.42	2.54
776.8	917.8	4.13	3.36	2.44
857.6	998.6	4.42	3.47	2.45
938.3	1079.3	4.15	3.32	2.34
1019.0	1160.0	3.94	3.03	1.97
1099.8	1240.8	3.31	2.43	1.64
1180.5	1321.5	2.78	1.85	1.18
1261.3	1402.3	2.48	1.41	0.76
1342.0	1483.0	1.95	1.05	0.58
1422.8	1563.8	1.43	0.78	0.44
1503.5	1644.5	0.97	0.50	0.29
1584.3	1725.3	0.73	0.34	0.21
1665.0	1806.0	0.70	0.30	0.17
1745.8	1886.8	0.85	0.35	0.17
1826.5	1967.5	1.17	0.54	0.22
1907.2	2048.2	1.54	0.82	0.32
1988.0	2129.0	2.00	1.14	0.55
2068.7	2209.7	2.39	1.45	0.81
2149.5	2290.5	2.52	1.65	1.01
2230.2	2371.2	2.49	1.75	1.12
2311.0	2452.0	2.67	1.94	1.21
2391.7	2532.7	2.90	2.12	1.31
2472.5	2613.5	3.12	2.35	1.50
2573.4	2714.4	3.12	2.39	1.54
2654.1	2795.1	3.22	2.55	1.64
2755.1	2896.1	3.04	2.45	1.63
2835.8	2976.8	3.30	2.74	1.91
2936.7	3077.7	2.60	2.20	1.63
3017.5	3158.5	3.01	2.60	2.04
3118.4	3259.4	2.76	2.43	2.02
3199.2	3340.2	2.77	2.41	2.05
3300.1	3441.1	2.32	1.96	1.67

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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)=1880MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1830MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1930.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1079.9	800.1	11.69	10.1	1840.1	7.97	930.0	1000.1	10.67
1025.5	854.5	11.14	30.5	1860.5	7.50	909.6	1020.5	10.93
971.1	908.9	10.37	50.8	1880.8	7.47	889.1	1041.0	10.90
916.7	963.3	10.44	71.2	1901.2	7.88	868.7	1061.4	10.86
862.3	1017.7	10.72	111.9	1941.9	7.69	848.2	1081.9	10.77
807.9	1072.1	10.69	132.2	1962.2	7.68	827.8	1102.3	10.81
753.5	1126.5	10.26	172.9	2002.9	7.71	807.3	1122.8	10.77
699.1	1180.9	9.87	193.3	2023.3	7.75	786.9	1143.2	10.51
644.7	1235.3	9.51	234.0	2064.0	7.82	766.4	1163.7	10.34
590.3	1289.7	9.11	254.3	2084.3	7.83	746.0	1184.1	10.06
535.9	1344.1	8.78	295.0	2125.0	7.83	725.6	1204.5	10.04
481.5	1398.5	8.40	315.4	2145.4	7.96	705.1	1225.0	9.92
427.1	1452.9	8.09	356.1	2186.1	8.04	684.7	1245.4	9.76
372.7	1507.3	7.90	376.4	2206.4	8.09	664.2	1265.9	9.57
318.3	1561.7	7.77	417.1	2247.1	8.18	643.8	1286.3	9.50
263.9	1616.1	7.68	437.5	2267.5	8.23	623.3	1306.8	9.31
209.5	1670.5	7.67	478.2	2308.2	8.43	602.9	1327.2	9.27
155.1	1724.9	7.69	498.5	2328.5	8.52	582.4	1347.7	9.08
100.7	1779.3	7.76	539.2	2369.2	8.60	562.0	1368.1	8.92
46.3	1833.7	7.70	559.6	2389.6	8.78	541.6	1388.5	8.78
10.0	1890.0	7.97	600.3	2430.3	8.94	521.1	1409.0	8.67
76.6	1956.6	7.76	620.6	2450.6	8.93	500.7	1429.4	8.61
143.2	2023.2	7.63	661.3	2491.3	9.30	480.2	1449.9	8.43
209.8	2089.8	7.73	681.7	2511.7	9.41	459.8	1470.3	8.35
276.5	2156.5	7.80	722.4	2552.4	9.47	439.3	1490.8	8.24
343.1	2223.1	8.01	742.7	2572.7	9.59	418.9	1511.2	8.13
409.7	2289.7	8.17	783.4	2613.4	9.86	398.4	1531.7	8.07
476.3	2356.3	8.39	803.8	2633.8	9.90	378.0	1552.1	7.99
542.9	2422.9	8.70	844.5	2674.5	9.98	337.1	1593.0	7.95
609.5	2489.5	9.10	864.8	2694.8	10.14	316.7	1613.4	7.92
676.2	2556.2	9.32	905.5	2735.5	10.22	275.8	1654.3	7.84
742.8	2622.8	9.67	925.9	2755.9	10.22	255.3	1674.8	7.82
809.4	2689.4	10.07	966.6	2796.6	10.44	214.4	1715.7	7.79
876.0	2756.0	10.09	986.9	2816.9	10.52	194.0	1736.1	7.73
942.6	2822.6	10.36	1027.6	2857.6	10.65	153.1	1777.0	7.79
1009.2	2889.2	10.80	1048.0	2878.0	10.75	132.7	1797.4	7.80
1098.0	2978.0	11.27	1088.7	2918.7	10.96	91.8	1838.3	7.82
1164.7	3044.7	11.35	1109.0	2939.0	11.04	71.3	1858.8	7.82
1253.5	3133.5	11.76	1149.7	2979.7	11.24	30.4	1899.7	7.45
1320.1	3200.1	12.26	1170.1	3000.1	11.31	10.0	1920.1	7.97

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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
80.1	79.17	81.13	80.45	73.44	73.25	73.16
160.8	60.08	59.88	59.65	55.85	57.44	58.94
241.6	56.25	56.38	56.41	50.16	51.10	52.04
322.3	55.31	55.62	55.86	46.84	47.54	48.17
403.1	53.67	53.66	53.43	43.93	44.65	45.19
483.8	50.70	49.44	48.94	41.62	42.13	42.87
564.6	51.19	51.62	52.02	39.12	39.75	40.19
645.3	51.65	52.54	53.21	37.21	37.86	38.37
726.1	51.48	51.89	52.75	35.79	36.19	36.85
806.8	52.09	51.82	52.13	34.38	34.89	35.53
887.6	52.41	51.73	51.88	33.32	33.91	34.64
968.3	50.85	49.67	49.39	32.45	32.99	33.75
1049.0	49.28	48.37	48.13	31.76	32.26	32.91
1129.8	49.14	48.23	47.76	30.78	31.25	31.88
1210.5	53.10	53.23	53.60	30.02	30.42	30.94
1291.3	57.86	57.26	55.95	29.45	30.08	30.51
1372.0	54.72	54.21	53.18	29.09	29.65	29.92
1452.8	52.28	52.37	51.84	28.91	29.30	29.36
1533.5	47.92	48.58	48.80	28.54	28.75	28.52
1614.3	43.04	43.47	43.62	27.53	27.29	26.82
1695.0	39.33	39.80	40.27	26.52	26.35	26.02
1775.8	37.18	37.69	38.52	26.99	26.66	26.63
1856.5	36.35	37.06	37.95	29.33	29.02	29.12
1937.2	35.79	36.59	37.41	33.83	33.42	33.40
2018.0	34.98	35.99	36.68	42.00	40.14	38.59
2098.7	34.60	35.50	36.28	40.77	38.22	36.64
2179.5	34.44	35.45	36.32	34.04	33.19	32.53
2260.2	34.55	35.62	36.62	30.32	29.94	29.63
2341.0	33.89	34.76	35.47	28.19	28.37	28.14
2421.7	33.24	33.82	34.25	27.65	28.60	29.03
2502.5	33.11	33.42	33.62	27.97	29.20	29.99
2603.4	34.44	34.26	34.39	28.08	28.96	29.83
2684.1	35.72	35.05	34.93	27.96	28.60	29.45
2785.1	37.62	36.66	35.73	27.62	28.36	29.02
2865.8	39.36	37.65	36.23	27.46	28.13	28.74
2966.7	43.21	40.12	37.73	26.50	27.12	27.54
3047.5	47.80	42.88	40.62	25.77	26.19	26.83
3148.4	51.49	49.88	47.51	24.65	25.07	25.68
3229.2	47.64	49.65	52.23	23.99	24.43	24.95
3330.1	42.62	41.57	41.17	23.97	24.35	24.82

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
50.1	191.1	49.81	54.76	66.28
130.8	271.8	42.45	46.28	65.22
211.6	352.6	37.65	37.95	39.87
292.3	433.3	36.09	35.99	36.88
373.1	514.1	35.38	36.84	40.24
453.8	594.8	34.91	35.19	41.39
534.6	675.6	34.77	34.31	42.73
615.3	756.3	33.32	34.01	43.28
696.1	837.1	32.04	32.02	36.95
776.8	917.8	31.45	31.06	34.70
857.6	998.6	27.81	27.95	31.03
938.3	1079.3	29.37	32.46	37.55
1019.0	1160.0	34.00	40.39	48.54
1099.8	1240.8	38.35	45.23	53.39
1180.5	1321.5	43.16	54.97	54.43
1261.3	1402.3	46.82	52.65	58.94
1342.0	1483.0	49.95	53.54	53.83
1422.8	1563.8	58.29	59.20	53.14
1503.5	1644.5	62.56	69.38	65.57
1584.3	1725.3	52.64	51.02	49.95
1665.0	1806.0	45.45	44.98	44.42
1745.8	1886.8	42.77	42.75	42.47
1826.5	1967.5	40.64	41.41	41.89
1907.2	2048.2	38.20	38.66	38.96
1988.0	2129.0	36.66	36.91	36.96
2068.7	2209.7	36.55	36.55	36.20
2149.5	2290.5	38.02	38.34	37.70
2230.2	2371.2	40.60	40.79	40.59
2311.0	2452.0	42.43	43.46	42.30
2391.7	2532.7	36.32	36.13	35.66
2472.5	2613.5	32.94	33.79	34.22
2573.4	2714.4	32.55	34.47	35.73
2654.1	2795.1	31.86	33.87	35.81
2755.1	2896.1	30.89	32.20	33.89
2835.8	2976.8	31.53	32.35	33.80
2936.7	3077.7	35.38	35.76	36.82
3017.5	3158.5	45.68	45.20	41.76
3118.4	3259.4	38.54	37.67	37.78
3199.2	3340.2	32.59	31.64	32.83
3300.1	3441.1	29.36	28.44	29.51

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1920MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
50.1	191.1	19.32	17.75	16.72	80.1	248.17	217.15	248.17	10.0	1.39	1.54	1.63
130.8	271.8	4.83	4.32	3.92	160.8	20.70	20.70	20.45	30.2	1.29	1.46	1.58
211.6	352.6	2.77	2.42	2.20	241.6	34.07	34.75	34.75	50.4	1.27	1.44	1.56
292.3	433.3	2.07	1.81	1.63	322.3	56.04	56.04	56.04	70.6	1.29	1.46	1.57
373.1	514.1	1.67	1.35	1.25	403.1	57.91	57.91	56.04	90.8	1.28	1.44	1.55
453.8	594.8	1.49	1.19	1.14	483.8	49.64	48.26	45.72	111.0	1.32	1.47	1.58
534.6	675.6	1.70	1.27	1.06	564.6	45.72	44.55	43.44	131.2	1.32	1.46	1.55
615.3	756.3	1.71	1.32	1.17	645.3	41.37	39.49	38.61	151.4	1.36	1.49	1.58
696.1	837.1	1.82	1.44	1.27	726.1	36.20	35.46	33.42	171.6	1.40	1.50	1.58
776.8	917.8	1.90	1.54	1.35	806.8	32.79	32.18	30.49	191.8	1.41	1.51	1.57
857.6	998.6	2.00	1.64	1.45	887.6	31.03	29.96	28.96	212.0	1.46	1.54	1.60
938.3	1079.3	2.11	1.74	1.55	968.3	28.96	28.03	27.16	232.2	1.46	1.52	1.57
1019.0	1160.0	2.20	1.84	1.65	1049.0	25.94	25.19	24.14	252.4	1.54	1.60	1.64
1099.8	1240.8	2.20	1.88	1.71	1129.8	22.87	22.00	20.70	272.7	1.55	1.59	1.62
1180.5	1321.5	2.11	1.87	1.74	1210.5	19.76	18.90	17.57	292.9	1.60	1.64	1.66
1261.3	1402.3	2.00	1.83	1.74	1291.3	16.89	16.26	15.39	313.1	1.62	1.64	1.65
1342.0	1483.0	1.92	1.78	1.71	1372.0	13.92	13.39	12.89	333.3	1.65	1.66	1.66
1422.8	1563.8	1.83	1.74	1.71	1452.8	10.62	10.19	9.85	353.5	1.73	1.72	1.70
1503.5	1644.5	1.73	1.69	1.69	1533.5	7.50	7.20	6.91	373.7	1.73	1.71	1.69
1584.3	1725.3	1.62	1.62	1.65	1614.3	4.79	4.55	4.36	393.9	1.81	1.78	1.74
1665.0	1806.0	1.54	1.57	1.62	1695.0	2.73	2.57	2.46	434.3	1.86	1.80	1.73
1745.8	1886.8	1.45	1.49	1.55	1775.8	1.47	1.39	1.33	454.5	1.91	1.83	1.75
1826.5	1967.5	1.38	1.39	1.45	1856.5	1.38	1.44	1.50	494.9	1.99	1.89	1.79
1907.2	2048.2	1.38	1.31	1.34	1937.2	2.26	2.36	2.45	515.1	1.98	1.88	1.78
1988.0	2129.0	1.44	1.28	1.25	2018.0	3.31	3.41	3.48	555.5	2.10	1.97	1.85
2068.7	2209.7	1.55	1.32	1.23	2098.7	4.32	4.39	4.41	575.7	2.17	2.03	1.90
2149.5	2290.5	1.64	1.39	1.25	2179.5	5.10	5.14	5.17	616.1	2.23	2.07	1.91
2230.2	2371.2	1.68	1.44	1.27	2260.2	5.51	5.51	5.51	636.3	2.27	2.09	1.92
2311.0	2452.0	1.75	1.50	1.31	2341.0	5.49	5.44	5.39	676.7	2.30	2.12	1.94
2391.7	2532.7	1.84	1.56	1.37	2421.7	5.27	5.17	5.09	696.9	2.33	2.13	1.95
2472.5	2613.5	1.92	1.64	1.45	2502.5	4.91	4.80	4.67	737.3	2.39	2.19	2.00
2573.4	2714.4	1.94	1.67	1.49	2603.4	4.23	4.12	4.01	757.6	2.47	2.26	2.07
2654.1	2795.1	1.93	1.67	1.48	2684.1	3.66	3.58	3.49	798.0	2.50	2.27	2.07
2755.1	2896.1	1.86	1.62	1.43	2785.1	3.04	2.96	2.89	818.2	2.51	2.28	2.07
2835.8	2976.8	1.84	1.61	1.42	2865.8	2.66	2.60	2.55	858.6	2.53	2.30	2.09
2936.7	3077.7	1.84	1.61	1.45	2966.7	2.35	2.32	2.27	878.8	2.54	2.31	2.10
3017.5	3158.5	1.82	1.63	1.50	3047.5	2.25	2.22	2.18	919.2	2.58	2.35	2.14
3118.4	3259.4	1.87	1.72	1.61	3148.4	2.22	2.19	2.16	939.4	2.62	2.39	2.17
3199.2	3340.2	1.96	1.86	1.77	3229.2	2.26	2.22	2.20	979.8	2.63	2.39	2.17
3300.1	3441.1	2.15	2.07	2.00	3330.1	2.43	2.40	2.38	1000.0	2.61	2.37	2.15

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+13	+2	6	+1	6	9	15	15	40	45
1	-	18	+0	9	+5	19	11	20	8	28	22	20
2	66	21	40	51	25	31	31	23	34	31	28	37
3	87	61	26	47	37	40	29	40	44	44	32	42
4	88	50	53	58	49	58	54	55	57	46	53	45
5	>90	55	53	50	60	58	60	51	56	>61	48	55
6	81	52	58	55	60	60	60	>61	56	54	52	51
7	86	54	61	58	50	55	>61	>61	54	55	59	59
8	>90	>61	59	53	58	53	59	>61	>61	59	59	52
9	77	57	55	52	59	>61	51	55	>61	53	>61	>61
10	75	55	54	56	60	58	59	>61	57	>61	61	54
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1880 MHz; 4.00 dBm.
LO IN: 1910 MHz; +17.00 dBm
IF OUT: 30 MHz; -28.81 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+2	9	23	8	15	20	31	33	38	49
1	-	19	+0	10	+4	20	14	20	11	22	27	24
2	45	13	31	23	21	26	28	20	44	29	29	36
3	80	32	10	30	9	29	14	34	31	36	21	36
4	84	39	47	40	57	44	37	50	43	33	43	41
5	85	51	46	40	31	35	26	36	31	38	45	44
6	80	65	54	50	47	50	48	53	47	60	69	44
7	76	51	55	>71	66	46	58	43	46	42	46	44
8	76	54	63	61	62	55	60	70	56	65	55	66
9	>90	66	63	58	64	63	>71	58	59	53	52	50
10	80	61	64	56	62	70	60	60	63	63	61	69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1880 MHz; 14.00 dBm.
LO IN: 1910 MHz; +17.00 dBm
IF OUT: 30 MHz; -19.3 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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