

Frequency Mixer

HJK-ED12257/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=138MHz (dB)		
		@LO (dBm)		
		+15	+18	+21
238.1	100.1	14.35	12.17	10.37
418.1	280.1	8.66	7.87	7.39
478.1	340.1	8.13	7.58	7.27
538.1	400.1	7.57	7.26	7.03
598.1	460.1	9.02	8.82	8.61
658.1	520.1	8.05	7.97	7.94
718.1	580.1	7.81	7.80	7.85
778.1	640.1	7.63	7.67	7.72
838.1	700.1	7.67	7.71	7.75
898.1	760.1	7.60	7.59	7.62
958.1	820.1	7.79	7.73	7.73
1018.1	880.1	8.05	7.96	7.89
1078.1	940.1	8.21	8.09	8.00
1138.1	1000.1	8.42	8.27	8.17
1198.1	1060.1	8.66	8.50	8.38
1258.1	1120.1	8.82	8.64	8.52
1318.1	1180.1	8.88	8.70	8.58
1378.1	1240.1	9.08	8.87	8.72
1438.1	1300.1	9.19	8.96	8.82
1488.1	1350.1	9.28	9.04	8.89
1548.1	1410.1	9.51	9.27	9.11
1598.1	1460.1	9.43	9.19	9.03
1658.1	1520.1	9.67	9.45	9.30
1708.1	1570.1	9.63	9.42	9.28
1768.1	1630.1	9.77	9.57	9.43
1818.1	1680.1	9.86	9.66	9.53
1878.1	1740.1	9.86	9.68	9.58
1928.1	1790.1	10.04	9.85	9.73
1988.1	1850.1	9.96	9.78	9.68
2038.1	1900.1	10.13	9.91	9.78
2098.1	1960.1	10.27	10.08	9.98
2148.1	2010.1	10.25	10.08	9.98
2208.1	2070.1	10.37	10.21	10.12
2258.1	2120.1	10.24	10.13	10.07
2318.1	2180.1	10.37	10.26	10.21
2368.1	2230.1	10.30	10.23	10.22
2428.1	2290.1	10.32	10.26	10.25
2478.1	2340.1	10.36	10.31	10.31

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+15	+18	+21
238.1	100.1	9.47	9.87	10.49
418.1	280.1	10.95	13.52	16.94
478.1	340.1	13.43	16.88	21.44
538.1	400.1	16.51	18.95	20.35
598.1	460.1	17.70	18.36	19.61
658.1	520.1	21.89	24.45	26.54
718.1	580.1	25.13	27.43	29.90
778.1	640.1	29.18	32.46	36.17
838.1	700.1	31.65	34.65	35.43
898.1	760.1	27.44	30.31	33.77
958.1	820.1	26.49	27.98	29.40
1018.1	880.1	25.46	27.17	28.56
1078.1	940.1	23.38	24.41	27.03
1138.1	1000.1	23.58	24.33	25.72
1198.1	1060.1	23.41	24.51	25.52
1258.1	1120.1	23.48	24.79	25.44
1318.1	1180.1	22.99	24.55	25.28
1378.1	1240.1	22.21	23.96	24.82
1438.1	1300.1	20.72	22.86	24.05
1488.1	1350.1	20.47	22.28	23.53
1548.1	1410.1	20.14	22.04	23.16
1598.1	1460.1	20.90	22.63	23.57
1658.1	1520.1	21.13	23.25	24.33
1708.1	1570.1	21.80	24.14	25.39
1768.1	1630.1	22.34	25.54	27.17
1818.1	1680.1	22.64	26.01	27.98
1878.1	1740.1	23.22	26.41	28.25
1928.1	1790.1	23.25	26.45	27.91
1988.1	1850.1	23.11	26.04	27.70
2038.1	1900.1	22.38	25.22	26.83
2098.1	1960.1	22.61	25.01	26.69
2148.1	2010.1	23.29	25.58	27.37
2208.1	2070.1	23.79	25.94	27.53
2258.1	2120.1	25.22	27.22	28.68
2318.1	2180.1	25.64	28.55	30.51
2368.1	2230.1	27.11	29.95	32.05
2428.1	2290.1	27.23	30.93	34.04
2478.1	2340.1	28.17	31.99	36.04

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+15	+18	+21
238.1	100.1	11.71	11.10	10.16
418.1	280.1	8.85	7.09	5.21
478.1	340.1	6.30	4.97	3.17
538.1	400.1	4.78	3.16	1.69
598.1	460.1	2.43	1.86	1.40
658.1	520.1	1.53	0.83	0.39
718.1	580.1	0.61	0.29	0.16
778.1	640.1	0.23	0.13	0.08
838.1	700.1	0.18	0.09	0.06
898.1	760.1	0.30	0.17	0.10
958.1	820.1	0.50	0.25	0.15
1018.1	880.1	0.71	0.33	0.19
1078.1	940.1	1.00	0.46	0.23
1138.1	1000.1	1.27	0.56	0.29
1198.1	1060.1	1.51	0.68	0.34
1258.1	1120.1	1.77	0.81	0.39
1318.1	1180.1	2.02	0.94	0.42
1378.1	1240.1	2.25	1.06	0.48
1438.1	1300.1	2.62	1.31	0.62
1488.1	1350.1	2.55	1.30	0.63
1548.1	1410.1	2.71	1.39	0.66
1598.1	1460.1	2.59	1.28	0.60
1658.1	1520.1	2.53	1.23	0.58
1708.1	1570.1	2.43	1.17	0.56
1768.1	1630.1	2.23	1.08	0.51
1818.1	1680.1	2.15	1.06	0.49
1878.1	1740.1	1.89	0.94	0.44
1928.1	1790.1	1.87	0.92	0.43
1988.1	1850.1	1.74	0.85	0.40
2038.1	1900.1	1.73	0.90	0.44
2098.1	1960.1	1.52	0.80	0.39
2148.1	2010.1	1.34	0.67	0.33
2208.1	2070.1	1.23	0.59	0.30
2258.1	2120.1	1.00	0.47	0.25
2318.1	2180.1	1.01	0.45	0.23
2368.1	2230.1	0.81	0.35	0.18
2428.1	2290.1	0.78	0.33	0.17
2478.1	2340.1	0.64	0.28	0.14

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=881.1MHz (dB)
		@LO (dBm)
		+18
670.0	211.1	10.27
639.5	241.6	9.69
609.1	272.0	9.38
578.6	302.5	9.08
548.2	332.9	8.74
517.7	363.4	8.54
487.2	393.9	8.49
456.8	424.3	8.30
426.3	454.8	9.62
395.8	485.3	8.75
365.4	515.7	8.48
334.9	546.2	8.14
294.3	586.8	7.98
263.8	617.3	7.89
223.2	657.9	7.81
192.8	688.3	7.73
152.2	728.9	7.58
121.7	759.4	7.57
81.1	800.0	7.52
50.6	830.5	7.58
10.0	871.1	7.39
69.7	950.8	7.60
189.1	1070.2	7.93
278.6	1159.7	8.10
398.0	1279.1	8.32
487.5	1368.6	8.55
606.9	1488.0	8.74
696.5	1577.6	8.80
815.8	1696.9	8.84
905.4	1786.5	9.02
1024.8	1905.9	8.95
1114.3	1995.4	9.01
1233.7	2114.8	8.92
1323.2	2204.3	8.91
1442.6	2323.7	8.91
1532.2	2413.3	8.99
1651.5	2532.6	9.22
1741.1	2622.2	9.48
1860.5	2741.6	10.05
1950.0	2831.1	10.44

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=854.1MHz (dB)
		@LO (dBm)
		+18
10.0	864.1	7.37
70.0	924.1	7.61
130.0	984.1	7.78
190.0	1044.1	7.90
250.0	1104.1	7.99
310.0	1164.1	8.11
370.0	1224.1	8.27
430.0	1284.1	8.36
470.0	1324.1	8.47
530.0	1384.1	8.60
570.0	1424.1	8.69
630.0	1484.1	8.75
670.0	1524.1	8.76
730.0	1584.1	8.76
770.0	1624.1	8.81
830.0	1684.1	8.81
870.0	1724.1	8.91
930.0	1784.1	8.90
970.0	1824.1	8.86
1030.0	1884.1	8.92
1070.0	1924.1	8.94
1130.0	1984.1	9.01
1170.0	2024.1	8.97
1230.0	2084.1	8.97
1270.0	2124.1	8.92
1330.0	2184.1	8.94
1370.0	2224.1	8.91
1430.0	2284.1	8.94
1470.0	2324.1	8.96
1530.0	2384.1	9.01
1570.0	2424.1	9.09
1630.0	2484.1	9.15
1670.0	2524.1	9.31
1730.0	2584.1	9.44
1770.0	2624.1	9.66
1830.0	2684.1	9.87
1870.0	2724.1	10.09
1930.0	2784.1	10.33
1970.0	2824.1	10.53
2030.0	2884.1	10.72

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=909.1MHz (dB)
		@LO (dBm)
		+18
710.0	199.1	10.83
690.0	219.1	10.18
670.0	239.1	9.82
650.0	259.1	9.66
630.0	279.1	9.48
610.0	299.1	9.23
590.0	319.1	8.96
570.0	339.1	8.83
550.0	359.1	8.70
530.0	379.1	8.61
510.0	399.1	8.53
490.0	419.1	8.48
470.0	439.1	9.24
450.0	459.1	9.89
430.0	479.1	8.98
410.0	499.1	8.64
390.0	519.1	8.45
370.0	539.1	8.27
350.0	559.1	8.15
330.0	579.1	8.08
310.0	599.1	8.01
290.0	619.1	7.99
270.0	639.1	7.94
250.0	659.1	7.87
230.0	679.1	7.88
220.0	689.1	7.68
200.0	709.1	7.75
190.0	719.1	7.78
170.0	739.1	7.64
160.0	749.1	7.66
140.0	769.1	7.65
130.0	779.1	7.55
110.0	799.1	7.58
100.0	809.1	7.64
80.0	829.1	7.62
70.0	839.1	7.54
50.0	859.1	7.69
40.0	869.1	7.65
20.0	889.1	7.60
10.0	899.1	7.38

Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+15	+18	+21	+15	+18	+21
100.1	64.50	64.70	64.76	59.01	58.33	57.61
280.1	58.68	58.54	58.62	46.78	46.82	46.80
340.1	56.14	56.03	56.04	44.14	44.26	44.41
400.1	56.78	57.07	57.20	40.83	40.82	40.84
460.1	52.97	52.23	51.54	40.02	40.39	40.74
520.1	48.64	48.37	48.16	38.50	38.74	39.03
580.1	47.12	46.89	46.61	36.13	36.36	36.62
640.1	43.01	42.81	43.11	33.57	33.86	34.44
700.1	42.01	42.00	43.28	33.59	34.09	35.22
760.1	45.04	45.27	45.46	36.43	36.85	37.44
820.1	49.13	50.12	51.24	37.88	37.95	38.06
880.1	57.41	61.24	67.85	37.90	37.77	37.57
940.1	56.02	55.33	54.60	39.51	39.39	39.26
1000.1	51.38	51.38	51.26	41.98	41.76	41.50
1060.1	49.33	49.34	49.14	44.87	44.64	44.32
1120.1	48.38	48.40	48.29	47.62	47.40	47.02
1180.1	47.15	47.02	46.69	51.61	51.77	51.67
1240.1	45.76	45.53	45.17	54.87	56.02	56.71
1300.1	43.92	43.59	43.23	52.51	52.75	52.80
1350.1	42.27	41.88	41.49	48.74	48.41	48.15
1410.1	40.67	40.27	39.97	44.86	44.37	43.94
1460.1	39.57	39.22	38.94	42.71	42.34	41.98
1520.1	38.37	38.03	37.75	40.53	40.22	39.94
1570.1	37.77	37.44	37.18	39.61	39.34	39.14
1630.1	37.97	37.78	37.62	39.21	39.02	38.83
1680.1	38.13	38.05	37.98	39.14	39.00	38.87
1740.1	38.73	38.63	38.57	38.21	38.01	37.85
1790.1	38.71	38.58	38.46	37.04	36.81	36.63
1850.1	38.24	38.01	37.88	35.72	35.50	35.45
1900.1	37.77	37.52	37.30	34.69	34.53	34.49
1960.1	37.08	36.82	36.60	34.14	34.05	34.07
2010.1	36.37	36.06	35.81	33.62	33.54	33.59
2070.1	35.78	35.49	35.10	33.07	33.09	33.07
2120.1	34.57	34.37	34.03	32.44	32.67	32.78
2180.1	33.94	33.59	33.44	31.87	31.94	32.25
2230.1	33.07	32.68	32.50	31.69	31.80	32.10
2290.1	32.44	32.09	31.78	31.29	31.41	31.66
2340.1	31.57	31.19	30.78	31.02	31.17	31.29

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+15	+18	+21
238.1	100.1	22.43	23.83	26.82
418.1	280.1	28.95	33.77	40.12
478.1	340.1	36.31	41.07	51.55
538.1	400.1	41.56	42.59	42.76
598.1	460.1	43.65	42.78	39.01
658.1	520.1	31.49	30.98	31.15
718.1	580.1	32.40	32.84	34.66
778.1	640.1	33.97	35.74	39.67
838.1	700.1	36.17	38.63	44.94
898.1	760.1	37.07	39.11	42.14
958.1	820.1	37.01	37.42	40.21
1018.1	880.1	34.15	34.49	35.23
1078.1	940.1	32.51	33.14	33.34
1138.1	1000.1	32.78	32.53	31.93
1198.1	1060.1	35.87	35.88	36.18
1258.1	1120.1	36.93	36.89	37.37
1318.1	1180.1	37.16	36.79	36.54
1378.1	1240.1	39.87	41.81	47.36
1438.1	1300.1	38.47	40.06	42.35
1488.1	1350.1	38.44	40.33	44.36
1548.1	1410.1	41.67	49.60	42.93
1598.1	1460.1	40.05	45.40	42.18
1658.1	1520.1	35.88	37.83	40.43
1708.1	1570.1	35.52	36.80	38.38
1768.1	1630.1	37.42	38.29	38.82
1818.1	1680.1	39.34	39.67	39.05
1878.1	1740.1	40.66	40.06	38.59
1928.1	1790.1	40.73	40.22	38.67
1988.1	1850.1	40.23	39.70	38.00
2038.1	1900.1	39.65	39.38	37.80
2098.1	1960.1	38.81	38.75	37.62
2148.1	2010.1	38.22	38.14	37.26
2208.1	2070.1	37.63	37.66	36.87
2258.1	2120.1	36.92	36.95	36.52
2318.1	2180.1	35.50	35.42	35.09
2368.1	2230.1	34.90	34.77	34.48
2428.1	2290.1	34.36	34.23	33.99
2478.1	2340.1	33.66	33.46	33.19

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Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=756MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+15	+18	+21		+15	+18	+21		+15	+18	+21
238.1	100.1	1.31	1.32	1.36	100.1	17.93	17.93	17.75	10.0	1.68	1.80	1.92
418.1	280.1	1.75	1.87	1.96	280.1	51.10	49.64	51.10	70.0	1.64	1.76	1.87
478.1	340.1	2.00	2.07	2.13	340.1	34.75	34.75	34.75	90.0	1.67	1.78	1.89
538.1	400.1	2.18	2.21	2.24	400.1	27.16	26.74	26.33	110.0	1.68	1.79	1.89
598.1	460.1	2.24	2.36	2.52	460.1	19.76	19.54	19.54	130.0	1.74	1.85	1.96
658.1	520.1	2.47	2.55	2.63	520.1	14.74	14.62	14.38	150.0	1.72	1.82	1.92
718.1	580.1	2.50	2.55	2.61	580.1	8.77	8.55	8.31	170.0	1.73	1.82	1.93
778.1	640.1	2.53	2.57	2.60	640.1	3.44	3.30	3.13	190.0	1.77	1.86	1.96
838.1	700.1	2.51	2.53	2.54	700.1	2.31	2.41	2.75	210.0	1.83	1.92	2.02
898.1	760.1	2.51	2.51	2.52	760.1	5.16	5.36	5.63	230.0	1.87	1.96	2.05
958.1	820.1	2.60	2.58	2.57	820.1	8.60	8.72	8.95	250.0	1.84	1.93	2.02
1018.1	880.1	2.64	2.61	2.58	880.1	11.31	11.38	11.38	270.0	1.88	1.96	2.04
1078.1	940.1	2.73	2.68	2.64	940.1	13.81	13.92	14.03	290.0	1.91	1.99	2.07
1138.1	1000.1	2.81	2.75	2.70	1000.1	15.13	15.00	14.62	310.0	1.99	2.07	2.15
1198.1	1060.1	2.83	2.76	2.71	1060.1	15.67	15.53	15.39	330.0	1.97	2.04	2.12
1258.1	1120.1	2.83	2.77	2.71	1120.1	15.39	15.26	15.00	350.0	1.99	2.05	2.12
1318.1	1180.1	2.75	2.69	2.63	1180.1	15.39	15.00	14.38	370.0	2.01	2.07	2.13
1378.1	1240.1	2.72	2.65	2.58	1240.1	15.67	15.53	15.39	390.0	2.10	2.16	2.22
1438.1	1300.1	2.66	2.58	2.52	1300.1	14.87	14.50	13.92	410.0	2.10	2.15	2.22
1488.1	1350.1	2.52	2.45	2.38	1350.1	14.26	14.15	13.92	430.0	2.10	2.15	2.21
1548.1	1410.1	2.43	2.35	2.28	1410.1	14.15	13.92	13.60	450.0	2.14	2.18	2.23
1598.1	1460.1	2.32	2.25	2.18	1460.1	13.92	13.70	13.39	470.0	2.14	2.18	2.22
1658.1	1520.1	2.20	2.13	2.07	1520.1	13.39	13.29	13.09	490.0	2.22	2.26	2.30
1708.1	1570.1	2.12	2.05	1.99	1570.1	12.52	12.26	11.69	510.0	2.18	2.22	2.26
1768.1	1630.1	1.98	1.91	1.86	1630.1	12.18	12.09	11.93	530.0	2.20	2.23	2.27
1818.1	1680.1	1.92	1.86	1.81	1680.1	12.01	11.61	10.96	550.0	2.20	2.22	2.25
1878.1	1740.1	1.81	1.75	1.70	1740.1	11.38	11.24	10.96	570.0	2.25	2.27	2.30
1928.1	1790.1	1.76	1.70	1.64	1790.1	10.56	10.31	9.85	590.0	2.25	2.27	2.30
1988.1	1850.1	1.67	1.61	1.57	1850.1	9.79	9.63	9.28	610.0	2.25	2.27	2.30
2038.1	1900.1	1.62	1.57	1.52	1900.1	9.48	9.33	9.04	620.0	2.22	2.23	2.25
2098.1	1960.1	1.58	1.53	1.49	1960.1	8.86	8.64	8.27	640.0	2.26	2.27	2.29
2148.1	2010.1	1.52	1.47	1.44	2010.1	8.39	8.27	8.16	650.0	2.25	2.26	2.27
2208.1	2070.1	1.50	1.45	1.41	2070.1	7.53	7.38	7.05	670.0	2.28	2.28	2.29
2258.1	2120.1	1.43	1.40	1.37	2120.1	7.20	7.14	7.08	680.0	2.28	2.29	2.30
2318.1	2180.1	1.40	1.36	1.34	2180.1	6.56	6.42	6.19	700.0	2.26	2.26	2.26
2368.1	2230.1	1.35	1.32	1.31	2230.1	6.03	5.99	5.91	710.0	2.28	2.28	2.29
2428.1	2290.1	1.30	1.28	1.27	2290.1	5.27	5.20	5.10	730.0	2.24	2.23	2.24
2478.1	2340.1	1.27	1.26	1.26	2340.1	4.75	4.70	4.61	740.0	2.31	2.30	2.30

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	20	26	27	30	48	37	44	48	42
1	-	32	+0	45	15	48	28	56	41	53	36	49
2	63	62	72	61	49	69	48	82	53	75	55	>82
3	>90	>82	71	>82	72	>82	77	>82	79	>82	>82	>82
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	81	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 881.1 MHz; 0.00 dBm.
LO IN: 743.1 MHz; +18.00 dBm
IF OUT: 138 MHz; -7.68 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	30	39	37	43	57	50	51	56	54
1	-	32	+0	45	16	49	29	61	39	50	36	49
2	43	51	58	51	38	60	38	69	43	62	46	72
3	66	68	49	69	50	73	53	69	56	72	60	73
4	>90	86	77	>92	71	84	68	79	67	81	70	83
5	>90	>92	87	>92	81	90	78	92	78	>92	81	>92
6	>90	>92	>92	>92	>92	>92	92	>92	92	>92	91	>92
7	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	89	>92
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 881.1 MHz; 10.00 dBm.
LO IN: 743.1 MHz; +18.00 dBm
IF OUT: 138 MHz; 2.29 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.