

Frequency Mixer

HJK-ED9550/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=183.6MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
470.1	286.5	14.77	12.41	11.27
560.1	376.5	7.73	7.31	7.85
650.1	466.5	6.61	6.59	7.32
740.1	556.5	6.85	6.47	7.54
830.1	646.5	8.59	8.23	8.42
920.1	736.5	8.29	7.72	8.13
1010.1	826.5	8.50	7.69	8.08
1100.1	916.5	8.82	7.91	8.31
1190.1	1006.5	8.79	7.91	8.48
1280.1	1096.5	8.71	7.89	8.35
1370.1	1186.5	9.24	8.82	8.85
1460.1	1276.5	9.33	8.77	9.13
1550.1	1366.5	9.25	8.59	8.98
1640.1	1456.5	8.73	8.08	8.60
1730.1	1546.5	8.44	7.92	8.37
1820.1	1636.5	8.35	8.00	8.56
1910.1	1726.5	8.51	8.35	8.90
2000.1	1816.5	8.49	8.33	8.81
2090.1	1906.5	8.07	7.88	8.31
2180.1	1996.5	7.83	7.66	8.05
2270.1	2086.5	7.72	7.59	7.98
2360.1	2176.5	7.63	7.56	8.02
2450.1	2266.5	7.68	7.59	8.05
2540.1	2356.5	7.88	7.78	8.33
2630.1	2446.5	8.35	8.27	8.76
2720.1	2536.5	8.73	8.56	8.73
2810.1	2626.5	8.71	8.43	8.57
2900.1	2716.5	9.78	9.42	9.37
2990.1	2806.5	8.96	8.50	9.07
3080.1	2896.5	8.48	8.06	8.66
3170.1	2986.5	8.27	8.03	8.56
3260.1	3076.5	8.26	8.05	8.53
3350.1	3166.5	8.30	8.08	8.52
3440.1	3256.5	8.36	8.11	8.66
3520.1	3336.5	8.48	8.21	8.70
3610.1	3426.5	8.74	8.41	8.83
3690.1	3506.5	9.06	8.71	9.10
3780.1	3596.5	9.60	9.20	9.53
3860.1	3676.5	10.37	9.91	10.21
3950.1	3766.5	11.60	11.23	11.62

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
470.1	286.5	16.78	16.16	17.17
560.1	376.5	17.97	20.21	21.41
650.1	466.5	22.44	23.92	24.26
740.1	556.5	16.73	18.04	19.86
830.1	646.5	19.61	21.61	24.59
920.1	736.5	20.93	22.72	25.44
1010.1	826.5	18.79	20.85	23.49
1100.1	916.5	18.28	20.48	22.69
1190.1	1006.5	20.64	21.81	22.00
1280.1	1096.5	24.32	22.87	22.54
1370.1	1186.5	22.44	24.81	26.06
1460.1	1276.5	22.36	24.75	27.81
1550.1	1366.5	23.35	24.21	29.54
1640.1	1456.5	24.44	25.75	29.83
1730.1	1546.5	24.78	27.42	29.28
1820.1	1636.5	25.43	28.02	33.37
1910.1	1726.5	26.12	29.05	33.90
2000.1	1816.5	25.02	28.09	31.00
2090.1	1906.5	26.14	29.30	31.84
2180.1	1996.5	26.56	29.87	32.36
2270.1	2086.5	26.52	31.37	33.74
2360.1	2176.5	26.82	31.65	34.39
2450.1	2266.5	26.56	32.16	34.99
2540.1	2356.5	25.75	29.73	33.01
2630.1	2446.5	25.81	27.97	30.69
2720.1	2536.5	23.33	25.52	28.02
2810.1	2626.5	21.81	25.22	27.76
2900.1	2716.5	24.89	25.82	26.80
2990.1	2806.5	24.77	26.60	28.21
3080.1	2896.5	23.53	26.23	29.32
3170.1	2986.5	23.76	26.45	29.77
3260.1	3076.5	22.87	25.66	28.80
3350.1	3166.5	22.25	25.53	28.12
3440.1	3256.5	21.83	25.78	28.96
3520.1	3336.5	21.65	25.98	29.06
3610.1	3426.5	21.12	25.14	28.49
3690.1	3506.5	20.70	24.21	27.75
3780.1	3596.5	20.47	22.95	26.05
3860.1	3676.5	20.47	22.43	25.30
3950.1	3766.5	20.95	22.99	26.84

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
470.1	286.5	5.11	4.75	3.98
560.1	376.5	4.48	2.57	1.91
650.1	466.5	1.33	0.86	0.91
740.1	556.5	3.42	2.44	1.31
830.1	646.5	2.55	1.63	1.06
920.1	736.5	3.25	2.05	1.18
1010.1	826.5	4.10	2.84	1.88
1100.1	916.5	6.54	4.23	2.58
1190.1	1006.5	3.36	2.51	2.27
1280.1	1096.5	2.43	1.62	2.06
1370.1	1186.5	2.95	1.98	1.65
1460.1	1276.5	2.23	1.44	0.87
1550.1	1366.5	2.06	1.36	0.55
1640.1	1456.5	1.40	0.85	0.40
1730.1	1546.5	1.23	0.70	0.40
1820.1	1636.5	1.08	0.61	0.26
1910.1	1726.5	1.00	0.55	0.21
2000.1	1816.5	1.22	0.68	0.37
2090.1	1906.5	0.90	0.49	0.28
2180.1	1996.5	0.62	0.35	0.25
2270.1	2086.5	0.59	0.31	0.19
2360.1	2176.5	0.64	0.33	0.17
2450.1	2266.5	0.68	0.32	0.15
2540.1	2356.5	0.82	0.41	0.22
2630.1	2446.5	1.23	0.67	0.38
2720.1	2536.5	2.67	1.40	0.65
2810.1	2626.5	2.02	1.24	0.80
2900.1	2716.5	1.27	0.77	0.72
2990.1	2806.5	1.44	0.87	0.55
3080.1	2896.5	1.58	0.87	0.55
3170.1	2986.5	1.55	0.82	0.43
3260.1	3076.5	1.64	0.84	0.42
3350.1	3166.5	1.63	0.83	0.46
3440.1	3256.5	1.59	0.82	0.45
3520.1	3336.5	1.51	0.80	0.45
3610.1	3426.5	1.55	0.82	0.47
3690.1	3506.5	1.66	0.87	0.48
3780.1	3596.5	1.70	1.01	0.55
3860.1	3676.5	1.69	1.06	0.61
3950.1	3766.5	1.37	0.82	0.48

REV. X2

HJK-ED9550/1

101012

Page 1 of 5



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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)=2442MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2373.89MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2510.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1070.0	1372.0	10.32	10.1	2384.0	7.81	1130.1	1380.0	10.30
1017.0	1425.0	9.95	50.1	2424.0	7.60	1109.7	1400.4	10.24
964.0	1478.0	9.51	90.1	2464.0	7.60	1089.4	1420.7	10.16
911.0	1531.0	9.29	130.1	2504.0	7.67	1069.0	1441.1	10.02
858.0	1584.0	8.97	170.1	2544.0	7.90	1048.6	1461.5	9.86
805.0	1637.0	8.67	210.1	2584.0	8.14	1028.3	1481.8	9.66
752.0	1690.0	8.40	250.1	2624.0	8.44	1007.9	1502.2	9.65
699.0	1743.0	8.12	290.1	2664.0	8.89	987.6	1522.5	9.57
646.0	1796.0	8.20	330.1	2704.0	9.16	946.8	1563.3	9.31
593.0	1849.0	7.72	370.1	2744.0	8.79	926.5	1583.6	9.17
540.0	1902.0	7.60	410.1	2784.0	8.39	885.7	1624.4	9.00
487.0	1955.0	7.56	450.1	2824.0	8.29	865.4	1644.7	8.92
434.0	2008.0	7.59	490.1	2864.0	8.24	824.6	1685.5	8.69
381.0	2061.0	7.76	530.1	2904.0	8.32	804.3	1705.8	8.58
328.0	2114.0	7.76	570.1	2944.0	8.32	763.6	1746.5	8.40
275.0	2167.0	7.67	610.1	2984.0	8.42	743.2	1766.9	8.65
222.0	2220.0	7.57	650.1	3024.0	8.34	702.5	1807.6	8.43
169.0	2273.0	7.62	690.1	3064.0	8.41	682.1	1828.0	8.16
116.0	2326.0	7.68	730.1	3104.0	8.44	641.4	1868.7	7.91
63.0	2379.0	7.59	770.1	3144.0	8.48	621.0	1889.1	7.85
10.0	2432.0	7.92	810.1	3184.0	8.57	580.3	1929.8	7.78
54.7	2496.7	7.63	850.1	3224.0	8.63	559.9	1950.2	7.74
121.7	2563.7	7.92	890.1	3264.0	8.68	519.2	1990.9	7.73
188.7	2630.7	8.42	930.1	3304.0	8.65	498.8	2011.3	7.78
255.7	2697.7	9.11	970.1	3344.0	8.74	458.1	2052.0	7.85
322.7	2764.7	8.46	1010.1	3384.0	8.68	437.7	2072.4	7.83
389.7	2831.7	8.21	1050.1	3424.0	8.72	397.0	2113.1	7.92
456.7	2898.7	8.24	1070.1	3444.0	8.77	376.6	2133.5	7.94
523.7	2965.7	8.25	1110.1	3484.0	8.73	335.9	2174.2	7.89
590.7	3032.7	8.27	1130.1	3504.0	8.77	315.6	2194.5	7.85
657.7	3099.7	8.38	1170.1	3544.0	9.06	274.8	2235.3	7.72
724.7	3166.7	8.47	1190.1	3564.0	9.13	254.5	2255.6	7.66
814.0	3256.0	8.63	1230.1	3604.0	9.22	213.7	2296.4	7.71
881.0	3323.0	8.63	1250.1	3624.0	9.32	193.4	2316.7	7.74
970.3	3412.3	8.72	1290.1	3664.0	9.39	152.6	2357.5	7.70
1037.3	3479.3	8.80	1310.1	3684.0	9.38	132.3	2377.8	7.76
1126.7	3568.7	8.90	1350.1	3724.0	9.70	91.6	2418.5	7.75
1193.7	3635.7	9.41	1370.1	3744.0	9.84	71.2	2438.9	7.71
1283.0	3725.0	9.81	1410.1	3784.0	10.07	30.5	2479.6	7.73
1350.0	3792.0	10.22	1430.1	3804.0	10.38	10.1	2500.0	7.99

REV. X2

HJK-ED9550/1

101012

Page 2 of 5



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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
286.5	45.39	45.60	51.42	51.53	52.52	52.02
376.5	34.23	34.71	44.95	48.53	49.80	49.56
466.5	29.39	30.55	39.78	40.96	40.21	50.50
556.5	31.92	32.50	39.90	35.38	34.05	42.72
646.5	33.70	35.10	38.38	40.97	40.32	43.65
736.5	34.61	35.85	37.28	54.53	52.15	47.35
826.5	34.71	35.91	36.84	60.17	58.87	46.74
916.5	34.77	35.92	36.62	49.54	49.58	43.84
1006.5	34.41	35.23	36.95	45.63	46.53	40.84
1096.5	33.13	33.19	34.39	40.95	41.85	45.23
1186.5	35.80	35.69	31.30	40.02	40.10	45.13
1276.5	41.45	44.86	31.06	35.42	35.36	44.41
1366.5	37.09	41.13	31.16	41.86	45.44	41.18
1456.5	39.08	43.28	31.25	34.02	34.14	36.95
1546.5	38.39	41.47	31.04	32.91	32.92	35.10
1636.5	37.37	38.92	29.90	31.53	31.44	33.80
1726.5	34.60	34.71	28.02	30.72	30.19	32.38
1816.5	30.73	30.44	26.29	30.72	30.35	32.20
1906.5	26.39	26.08	26.32	31.16	30.62	38.14
1996.5	24.48	24.57	27.51	31.36	30.40	37.82
2086.5	25.11	25.43	30.19	35.22	34.24	42.04
2176.5	25.92	26.59	33.38	35.43	35.92	36.19
2266.5	26.09	26.54	33.77	34.11	34.53	33.83
2356.5	25.56	25.87	31.58	34.23	34.72	33.33
2446.5	24.46	24.73	28.25	34.68	35.25	33.25
2536.5	22.73	22.65	24.37	36.20	36.56	34.64
2626.5	21.02	20.42	20.94	47.21	51.30	39.70
2716.5	20.36	19.06	19.04	28.35	27.95	33.98
2806.5	23.35	21.60	19.56	25.26	25.12	28.90
2896.5	24.42	22.85	20.66	25.41	24.97	26.79
2986.5	24.32	22.85	20.90	26.09	26.11	26.37
3076.5	22.62	21.12	19.70	27.44	27.18	26.65
3166.5	21.20	19.93	18.75	27.44	27.07	27.04
3256.5	19.71	18.55	17.63	26.64	26.23	26.57
3336.5	18.66	17.65	16.91	26.04	25.65	26.11
3426.5	17.52	16.55	15.97	25.69	25.32	25.89
3506.5	16.89	16.02	15.46	25.72	25.39	25.91
3596.5	15.60	15.10	14.59	25.73	25.85	26.43
3676.5	14.87	14.29	13.94	26.12	26.24	26.93
3766.5	13.78	13.27	12.63	26.44	26.55	27.15

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
470.1	286.5	46.96	37.60	31.76
560.1	376.5	32.91	33.55	31.06
650.1	466.5	33.30	34.25	30.98
740.1	556.5	33.32	33.28	32.63
830.1	646.5	38.27	47.19	30.33
920.1	736.5	37.58	36.90	27.07
1010.1	826.5	35.57	31.84	25.01
1100.1	916.5	32.15	29.98	24.39
1190.1	1006.5	28.44	29.32	26.07
1280.1	1096.5	21.82	21.98	19.32
1370.1	1186.5	18.39	18.38	16.15
1460.1	1276.5	24.71	22.88	19.97
1550.1	1366.5	26.94	25.30	23.29
1640.1	1456.5	29.35	30.85	24.09
1730.1	1546.5	29.06	30.73	25.48
1820.1	1636.5	28.01	28.77	25.64
1910.1	1726.5	27.41	27.34	23.94
2000.1	1816.5	29.25	29.32	23.56
2090.1	1906.5	30.93	31.11	24.47
2180.1	1996.5	33.50	32.69	25.36
2270.1	2086.5	36.25	35.24	28.17
2360.1	2176.5	37.62	36.75	30.30
2450.1	2266.5	36.83	36.38	30.96
2540.1	2356.5	33.88	34.11	30.38
2630.1	2446.5	29.13	29.33	28.05
2720.1	2536.5	25.64	25.87	26.41
2810.1	2626.5	23.04	22.32	22.39
2900.1	2716.5	23.22	22.06	21.10
2990.1	2806.5	26.81	26.05	23.01
3080.1	2896.5	32.52	33.99	26.70
3170.1	2986.5	32.50	33.92	31.96
3260.1	3076.5	33.12	34.86	35.24
3350.1	3166.5	40.09	43.61	33.46
3440.1	3256.5	39.59	41.04	34.13
3520.1	3336.5	38.21	38.12	36.43
3610.1	3426.5	36.23	36.78	35.25
3690.1	3506.5	33.39	33.92	32.54
3780.1	3596.5	30.37	31.24	30.39
3860.1	3676.5	27.26	28.25	27.77
3950.1	3766.5	23.99	24.62	24.88

Frequency Mixer

HJK-ED9550/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2500MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
470.1	286.5	7.05	5.89	4.69	286.5	133.63	133.63	91.43	10.0	1.25	1.45	1.71
560.1	376.5	2.68	2.51	2.51	376.5	26.74	25.94	19.76	70.5	1.25	1.45	1.73
650.1	466.5	1.84	1.85	1.95	466.5	5.83	5.99	7.00	131.0	1.31	1.46	1.73
740.1	556.5	1.46	1.44	1.67	556.5	22.87	22.29	12.35	191.5	1.44	1.56	1.77
830.1	646.5	1.22	1.44	1.67	646.5	36.20	35.46	17.75	252.0	1.57	1.66	1.81
920.1	736.5	1.07	1.17	1.45	736.5	42.38	41.37	21.20	312.4	1.62	1.68	1.79
1010.1	826.5	1.30	1.22	1.36	826.5	43.44	41.37	22.87	372.9	1.74	1.76	1.83
1100.1	916.5	1.55	1.42	1.43	916.5	42.38	40.41	24.48	433.4	1.86	1.81	1.83
1190.1	1006.5	1.79	1.62	1.57	1006.5	40.41	38.61	26.33	493.9	1.97	1.88	1.84
1280.1	1096.5	2.06	1.84	1.71	1096.5	36.97	35.46	27.59	554.4	2.14	2.04	1.95
1370.1	1186.5	1.93	1.69	1.72	1186.5	27.16	25.56	22.00	614.9	2.24	2.11	1.99
1460.1	1276.5	2.02	1.83	1.67	1276.5	22.00	21.46	15.67	675.4	2.23	2.09	1.96
1550.1	1366.5	2.25	2.01	1.68	1366.5	18.90	18.30	12.09	735.9	2.30	2.13	1.98
1640.1	1456.5	2.23	1.99	1.66	1456.5	17.39	17.05	9.90	796.3	2.34	2.13	1.94
1730.1	1546.5	2.18	1.95	1.63	1546.5	14.50	14.03	7.44	856.8	2.34	2.11	1.91
1820.1	1636.5	2.11	1.88	1.57	1636.5	11.69	11.31	5.85	917.3	2.45	2.20	1.97
1910.1	1726.5	2.09	1.91	1.66	1726.5	9.04	8.72	4.53	977.8	2.47	2.21	1.96
2000.1	1816.5	2.10	1.93	1.74	1816.5	6.83	6.53	3.46	1038.3	2.44	2.19	1.94
2090.1	1906.5	1.94	1.79	1.63	1906.5	5.09	4.89	2.76	1098.8	2.47	2.21	1.95
2180.1	1996.5	1.78	1.64	1.51	1996.5	4.03	3.90	2.32	1159.3	2.41	2.17	1.90
2270.1	2086.5	1.58	1.46	1.38	2086.5	3.74	3.67	2.26	1219.8	2.38	2.14	1.88
2360.1	2176.5	1.46	1.34	1.26	2176.5	4.15	4.12	2.54	1280.2	2.39	2.17	1.88
2450.1	2266.5	1.41	1.28	1.18	2266.5	4.95	4.96	3.14	1340.7	2.31	2.12	1.85
2540.1	2356.5	1.41	1.26	1.13	2356.5	5.95	5.95	3.88	1401.2	2.23	2.04	1.81
2630.1	2446.5	1.48	1.31	1.20	2446.5	6.91	6.91	4.75	1461.7	2.15	1.97	1.77
2720.1	2536.5	1.65	1.49	1.38	2536.5	7.31	7.28	5.56	1522.2	2.03	1.86	1.69
2810.1	2626.5	1.58	1.41	1.35	2626.5	6.21	6.13	5.65	1582.7	1.92	1.77	1.61
2900.1	2716.5	1.40	1.28	1.26	2716.5	4.56	4.56	4.46	1643.2	1.82	1.68	1.53
2990.1	2806.5	1.52	1.39	1.33	2806.5	5.28	5.27	4.07	1723.8	1.69	1.57	1.44
3080.1	2896.5	1.57	1.43	1.37	2896.5	5.87	5.75	4.02	1784.3	1.59	1.49	1.39
3170.1	2986.5	1.53	1.43	1.41	2986.5	6.01	5.87	4.00	1865.0	1.51	1.46	1.38
3260.1	3076.5	1.51	1.46	1.47	3076.5	5.97	5.81	3.87	1925.4	1.47	1.44	1.39
3350.1	3166.5	1.53	1.50	1.53	3166.5	5.77	5.61	3.73	2006.1	1.44	1.45	1.44
3440.1	3256.5	1.56	1.54	1.58	3256.5	5.49	5.33	3.60	2066.6	1.43	1.48	1.50
3520.1	3336.5	1.62	1.59	1.62	3336.5	5.34	5.25	3.67	2147.2	1.47	1.56	1.60
3610.1	3426.5	1.66	1.62	1.64	3426.5	5.13	5.06	3.69	2207.7	1.49	1.61	1.69
3690.1	3506.5	1.72	1.66	1.65	3506.5	5.10	5.07	3.86	2288.4	1.53	1.68	1.79
3780.1	3596.5	1.76	1.68	1.66	3596.5	5.03	5.04	4.06	2348.9	1.57	1.73	1.86
3860.1	3676.5	1.79	1.67	1.62	3676.5	5.06	5.06	4.32	2429.5	1.61	1.78	1.92
3950.1	3766.5	1.84	1.67	1.59	3766.5	4.95	4.95	4.53	2490.0	1.63	1.79	1.93

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	13	24	18	29	32	47	79	65	69
1	-	22	+0	29	19	31	45	46	45	53	63	70
2	57	62	45	46	47	51	61	60	53	53	66	67
3	90	81	62	72	55	64	60	67	72	73	81	78
4	>90	>84	>84	82	82	78	79	79	>84	>84	81	82
5	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	---	---	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2442 MHz; 2.00 dBm.
LO IN: 2258.4 MHz; +17.00 dBm
IF OUT: 183.6 MHz; -6.33 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	22	30	28	39	49	47	70	73	70
1	-	21	+0	29	20	33	50	44	53	48	65	65
2	37	46	36	38	37	44	52	52	50	51	65	67
3	60	59	40	72	36	49	44	52	57	63	62	72
4	82	73	76	61	65	55	70	55	74	65	65	64
5	>90	72	70	77	64	68	55	60	61	64	77	67
6	>90	84	93	88	83	73	74	68	72	69	77	75
7	>90	>94	90	84	79	>94	78	80	71	67	75	69
8	>90	>94	>94	>94	87	91	90	92	85	86	81	86
9	>90	>94	>94	>94	>94	92	92	>94	88	88	77	75
10	---	---	>94	>94	>94	>94	91	>94	>94	90	93	85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2442 MHz; 12.00 dBm.
LO IN: 2258.4 MHz; +17.00 dBm
IF OUT: 183.6 MHz; 3.55 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.

REV. X2
HJK-ED9550/1
101012
Page 5 of 5