

Frequency Mixer

HJK-ED11090/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=75MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
640.1	565.1	14.08	11.39	10.68
690.1	615.1	13.28	10.77	9.80
740.1	665.1	12.31	10.11	9.38
790.1	715.1	10.98	9.33	8.66
840.1	765.1	10.35	8.98	8.39
890.1	815.1	9.78	8.59	8.15
940.1	865.1	9.46	8.51	8.14
990.1	915.1	8.86	8.16	7.84
1040.1	965.1	8.44	8.03	7.78
1090.1	1015.1	8.21	7.89	7.84
1140.1	1065.1	8.32	8.14	8.04
1190.1	1115.1	8.50	8.24	8.03
1240.1	1165.1	8.58	8.20	7.98
1290.1	1215.1	8.92	8.40	8.11
1340.1	1265.1	9.18	8.55	8.25
1390.1	1315.1	9.61	8.81	8.43
1440.1	1365.1	9.81	8.96	8.55
1490.1	1415.1	10.16	9.20	8.74
1540.1	1465.1	10.33	9.33	8.86
1590.1	1515.1	10.62	9.52	9.02
1640.1	1565.1	10.77	9.64	9.14
1690.1	1615.1	10.91	9.69	9.15
1740.1	1665.1	11.04	9.81	9.28
1790.1	1715.1	11.18	9.92	9.37
1840.1	1765.1	11.37	10.06	9.48
1890.1	1815.1	11.36	10.02	9.48
1940.1	1865.1	11.45	10.09	9.52
1990.1	1915.1	11.40	10.06	9.53
2040.1	1965.1	11.51	10.15	9.62
2090.1	2015.1	11.35	10.05	9.57
2140.1	2065.1	11.42	10.12	9.60
2190.1	2115.1	11.35	10.12	9.62
2240.1	2165.1	11.46	10.24	9.75
2290.1	2215.1	11.21	10.11	9.71
2340.1	2265.1	11.43	10.29	9.85
2390.1	2315.1	11.27	10.18	9.80
2440.1	2365.1	11.50	10.39	9.96
2490.1	2415.1	11.29	10.28	9.88
2550.1	2475.1	11.57	10.53	10.04
2600.1	2525.1	11.41	10.48	10.02

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
640.1	565.1	13.07	14.06	14.51
690.1	615.1	16.67	21.12	20.52
740.1	665.1	18.94	20.37	22.87
790.1	715.1	19.97	22.55	25.51
840.1	765.1	22.68	26.15	28.72
890.1	815.1	28.94	26.27	26.64
940.1	865.1	25.48	27.15	28.51
990.1	915.1	26.47	29.80	31.05
1040.1	965.1	28.19	31.83	32.90
1090.1	1015.1	29.05	31.17	32.63
1140.1	1065.1	30.30	33.18	33.90
1190.1	1115.1	33.46	34.86	40.51
1240.1	1165.1	32.25	34.55	38.32
1290.1	1215.1	30.58	33.60	34.87
1340.1	1265.1	29.14	32.94	34.68
1390.1	1315.1	27.76	31.26	35.86
1440.1	1365.1	27.89	31.21	36.35
1490.1	1415.1	27.67	30.51	37.48
1540.1	1465.1	28.71	31.18	39.31
1590.1	1515.1	30.96	31.53	37.28
1640.1	1565.1	28.29	29.83	32.01
1690.1	1615.1	24.10	26.14	27.84
1740.1	1665.1	22.30	24.45	25.31
1790.1	1715.1	21.43	23.84	24.66
1840.1	1765.1	22.17	24.75	26.40
1890.1	1815.1	22.84	25.57	29.60
1940.1	1865.1	23.38	25.80	32.80
1990.1	1915.1	23.49	25.63	31.82
2040.1	1965.1	23.58	25.26	29.88
2090.1	2015.1	23.70	25.16	28.46
2140.1	2065.1	23.84	24.76	27.89
2190.1	2115.1	24.06	24.90	28.17
2240.1	2165.1	24.28	24.66	27.63
2290.1	2215.1	24.31	25.10	28.01
2340.1	2265.1	24.34	24.71	27.43
2390.1	2315.1	24.05	25.01	27.92
2440.1	2365.1	23.26	24.39	27.59
2490.1	2415.1	23.04	24.76	28.77
2550.1	2475.1	22.51	24.21	28.74
2600.1	2525.1	22.66	24.55	29.88

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
640.1	565.1	-1.10	0.27	1.01
690.1	615.1	-1.27	0.15	0.92
740.1	665.1	-0.68	0.47	0.90
790.1	715.1	-0.17	0.59	0.65
840.1	765.1	-0.03	0.47	0.43
890.1	815.1	0.04	0.49	0.43
940.1	865.1	0.22	0.46	0.30
990.1	915.1	0.26	0.31	0.15
1040.1	965.1	0.34	0.23	0.09
1090.1	1015.1	0.32	0.21	0.02
1140.1	1065.1	0.18	0.13	-0.01
1190.1	1115.1	0.14	0.09	0.05
1240.1	1165.1	0.15	0.11	0.09
1290.1	1215.1	0.14	0.13	0.07
1340.1	1265.1	0.13	0.14	0.06
1390.1	1315.1	0.12	0.15	0.05
1440.1	1365.1	0.15	0.15	0.05
1490.1	1415.1	0.24	0.20	0.06
1540.1	1465.1	0.24	0.19	0.05
1590.1	1515.1	0.36	0.28	0.06
1640.1	1565.1	0.35	0.31	0.08
1690.1	1615.1	0.36	0.40	0.13
1740.1	1665.1	0.42	0.49	0.20
1790.1	1715.1	0.49	0.63	0.24
1840.1	1765.1	0.37	0.61	0.22
1890.1	1815.1	0.32	0.63	0.23
1940.1	1865.1	0.24	0.60	0.21
1990.1	1915.1	0.21	0.58	0.20
2040.1	1965.1	0.15	0.55	0.18
2090.1	2015.1	0.16	0.51	0.14
2140.1	2065.1	0.09	0.50	0.14
2190.1	2115.1	0.11	0.46	0.12
2240.1	2165.1	0.06	0.46	0.13
2290.1	2215.1	0.12	0.42	0.11
2340.1	2265.1	0.05	0.42	0.11
2390.1	2315.1	0.03	0.37	0.08
2440.1	2365.1	-0.04	0.35	0.08
2490.1	2415.1	0.00	0.30	0.07
2550.1	2475.1	-0.06	0.29	0.08
2600.1	2525.1	-0.02	0.26	0.08

REV. X2

HJK-ED11090/1

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)=1130.1MHz (dB)
		@LO (dBm)
		+17
430.0	700.1	11.27
412.5	717.6	10.98
395.0	735.1	10.75
377.5	752.6	10.48
360.0	770.1	10.09
342.5	787.6	9.82
325.0	805.1	9.55
307.5	822.6	9.39
290.0	840.1	9.24
272.5	857.6	9.04
255.0	875.1	8.78
237.5	892.6	8.55
220.0	910.1	8.44
202.5	927.6	8.28
185.0	945.1	8.13
167.5	962.6	8.04
150.0	980.1	7.90
132.5	997.6	7.93
115.0	1015.1	7.89
97.5	1032.6	7.96
62.5	1067.6	8.17
45.0	1085.1	8.23
10.0	1120.1	8.79
10.0	1140.1	8.83
56.7	1186.8	8.17
80.0	1210.1	8.23
126.7	1256.8	8.31
150.0	1280.1	8.29
196.7	1326.8	8.54
220.0	1350.1	8.59
266.7	1396.8	8.81
290.0	1420.1	8.96
336.7	1466.8	9.10
360.0	1490.1	9.25
406.7	1536.8	9.51
430.0	1560.1	9.56
476.7	1606.8	10.02
500.0	1630.1	10.10
546.7	1676.8	10.36
570.0	1700.1	10.65

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1100.1MHz (dB)
		@LO (dBm)
		+17
10.0	1110.1	8.84
30.0	1130.1	8.22
50.0	1150.1	8.12
70.0	1170.1	8.22
90.0	1190.1	8.12
100.0	1200.1	8.20
120.0	1220.1	8.25
130.0	1230.1	8.26
150.0	1250.1	8.24
160.0	1260.1	8.29
180.0	1280.1	8.37
190.0	1290.1	8.40
210.0	1310.1	8.43
220.0	1320.1	8.51
240.0	1340.1	8.56
250.0	1350.1	8.58
270.0	1370.1	8.65
280.0	1380.1	8.72
300.0	1400.1	8.87
310.0	1410.1	8.95
330.0	1430.1	9.01
340.0	1440.1	9.00
360.0	1460.1	9.08
370.0	1470.1	9.18
390.0	1490.1	9.38
400.0	1500.1	9.44
420.0	1520.1	9.46
430.0	1530.1	9.51
450.0	1550.1	9.65
460.0	1560.1	9.69
480.0	1580.1	9.91
490.0	1590.1	10.00
510.0	1610.1	10.04
520.0	1620.1	10.11
540.0	1640.1	10.18
550.0	1650.1	10.21
570.0	1670.1	10.48
580.0	1680.1	10.59
600.0	1700.1	10.74
610.0	1710.1	10.79

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1160.1MHz (dB)
		@LO (dBm)
		+17
470.0	690.1	11.57
460.0	700.1	11.36
450.0	710.1	11.15
440.0	720.1	11.00
430.0	730.1	10.79
420.0	740.1	10.65
410.0	750.1	10.56
400.0	760.1	10.39
390.0	770.1	10.26
380.0	780.1	9.89
370.0	790.1	9.78
360.0	800.1	9.64
350.0	810.1	9.60
340.0	820.1	9.41
330.0	830.1	9.33
320.0	840.1	9.26
310.0	850.1	9.16
300.0	860.1	9.02
290.0	870.1	8.85
280.0	880.1	8.79
270.0	890.1	8.64
260.0	900.1	8.53
250.0	910.1	8.44
240.0	920.1	8.38
230.0	930.1	8.31
220.0	940.1	8.24
200.0	960.1	8.08
190.0	970.1	8.08
170.0	990.1	7.95
160.0	1000.1	7.89
140.0	1020.1	7.92
130.0	1030.1	7.99
110.0	1050.1	8.08
100.0	1060.1	8.16
80.0	1080.1	8.24
70.0	1090.1	8.25
50.0	1110.1	8.16
40.0	1120.1	8.25
20.0	1140.1	8.31
10.0	1150.1	8.77

REV. X2

HJK-ED11090/1

101012

Page 2 of 5



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Frequency Mixer

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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
565.1	61.85	59.63	64.11	37.10	37.36	37.74
615.1	60.50	62.40	65.49	36.07	36.22	36.57
665.1	57.70	58.81	62.77	35.18	35.31	35.63
715.1	53.48	54.35	56.26	34.21	34.29	34.57
765.1	48.54	48.78	49.43	33.10	33.17	33.41
815.1	42.49	41.11	41.28	32.11	32.25	32.53
865.1	41.78	40.98	42.09	32.04	32.52	32.99
915.1	41.09	41.11	42.26	31.23	31.61	32.11
965.1	38.57	38.38	38.36	30.44	30.69	31.21
1015.1	34.32	33.31	31.52	29.90	30.14	31.53
1065.1	29.68	29.19	28.97	31.78	32.86	36.27
1115.1	29.52	29.19	29.55	34.24	36.24	38.83
1165.1	30.48	30.31	30.71	37.01	39.18	41.77
1215.1	31.35	31.45	31.98	38.88	40.62	42.12
1265.1	32.12	32.24	32.84	39.82	40.79	41.20
1315.1	32.82	33.07	33.75	39.86	39.98	38.96
1365.1	33.34	33.60	34.33	39.56	39.22	38.27
1415.1	33.59	33.85	34.62	39.14	38.62	37.59
1465.1	34.23	34.51	35.32	38.86	38.28	37.24
1515.1	34.66	34.85	35.64	38.65	38.07	36.96
1565.1	35.15	35.25	35.91	37.97	37.65	36.53
1615.1	34.75	34.98	35.56	36.12	36.22	35.29
1665.1	33.30	33.98	34.53	34.76	35.09	34.36
1715.1	32.92	34.01	34.67	34.90	35.05	34.27
1765.1	33.12	34.44	35.15	35.55	35.38	34.55
1815.1	33.21	34.53	35.33	35.91	35.29	34.41
1865.1	33.41	34.77	35.69	36.13	35.24	34.26
1915.1	33.54	34.88	35.95	36.08	34.92	33.87
1965.1	33.55	34.85	36.02	36.10	34.81	33.68
2015.1	33.75	35.06	36.39	35.87	34.34	33.22
2065.1	33.90	35.27	36.75	35.77	34.33	33.09
2115.1	34.11	35.44	37.00	35.46	34.00	32.73
2165.1	33.91	35.29	37.01	35.04	33.77	32.66
2215.1	34.05	35.34	37.10	34.29	33.10	32.22
2265.1	34.07	35.30	37.03	34.12	33.17	32.44
2315.1	34.54	35.76	37.49	33.52	32.66	32.19
2365.1	34.40	35.66	37.38	32.94	32.54	32.27
2415.1	34.70	35.91	37.35	32.21	32.05	31.73
2475.1	34.37	35.61	37.04	31.61	31.92	31.84
2525.1	34.64	35.89	37.19	31.12	31.51	31.40

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
640.1	565.1	40.55	46.26	26.96
690.1	615.1	38.08	38.74	22.89
740.1	665.1	36.03	36.48	23.79
790.1	715.1	32.60	34.63	24.78
840.1	765.1	31.64	35.35	26.39
890.1	815.1	29.90	35.22	27.22
940.1	865.1	28.86	35.54	28.04
990.1	915.1	30.58	38.35	32.68
1040.1	965.1	37.33	46.97	45.48
1090.1	1015.1	43.02	36.44	28.20
1140.1	1065.1	41.13	36.72	31.21
1190.1	1115.1	37.99	44.96	41.39
1240.1	1165.1	32.79	39.75	42.15
1290.1	1215.1	31.02	35.83	35.26
1340.1	1265.1	30.20	34.60	32.40
1390.1	1315.1	29.74	34.12	30.59
1440.1	1365.1	29.97	34.67	30.72
1490.1	1415.1	30.09	34.47	30.16
1540.1	1465.1	30.28	34.62	30.37
1590.1	1515.1	29.69	32.96	28.89
1640.1	1565.1	27.59	30.11	27.08
1690.1	1615.1	26.11	28.60	26.02
1740.1	1665.1	27.05	30.34	27.76
1790.1	1715.1	28.35	31.71	28.65
1840.1	1765.1	28.75	31.85	28.14
1890.1	1815.1	28.51	31.23	26.89
1940.1	1865.1	28.27	30.61	25.99
1990.1	1915.1	28.26	30.40	25.67
2040.1	1965.1	28.45	30.47	25.57
2090.1	2015.1	28.61	30.73	25.95
2140.1	2065.1	29.04	31.18	26.25
2190.1	2115.1	29.54	31.84	27.04
2240.1	2165.1	30.37	32.67	27.34
2290.1	2215.1	30.97	33.31	28.39
2340.1	2265.1	32.45	34.57	28.96
2390.1	2315.1	33.79	35.10	30.16
2440.1	2365.1	36.04	36.25	30.81
2490.1	2415.1	38.39	35.69	32.49
2550.1	2475.1	42.88	35.98	34.20
2600.1	2525.1	42.53	34.66	35.38

Frequency Mixer

HJK-ED11090/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1060.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
640.1	565.1	5.00	3.70	3.16	565.1	23.18	22.29	25.94	10.0	1.62	1.89	2.20
690.1	615.1	4.46	3.25	2.78	615.1	22.87	21.73	24.83	30.0	1.58	1.84	2.13
740.1	665.1	4.32	3.22	2.84	665.1	20.22	19.54	21.73	50.0	1.62	1.89	2.19
790.1	715.1	3.76	2.94	2.65	715.1	19.32	18.70	20.45	70.0	1.58	1.84	2.12
840.1	765.1	3.59	2.87	2.60	765.1	18.11	17.57	18.70	90.0	1.63	1.91	2.19
890.1	815.1	3.18	2.56	2.31	815.1	16.26	15.67	16.26	110.0	1.56	1.81	2.08
940.1	865.1	2.79	2.25	2.04	865.1	13.29	12.80	12.80	130.0	1.61	1.87	2.15
990.1	915.1	2.46	2.05	1.87	915.1	10.43	9.96	9.69	150.0	1.57	1.82	2.08
1040.1	965.1	2.20	1.90	1.74	965.1	6.66	6.28	5.91	170.0	1.61	1.86	2.14
1090.1	1015.1	2.05	1.81	1.64	1015.1	3.94	3.67	3.14	190.0	1.57	1.81	2.07
1140.1	1065.1	2.01	1.81	1.65	1065.1	2.48	2.37	2.13	210.0	1.55	1.78	2.05
1190.1	1115.1	2.04	1.83	1.70	1115.1	2.67	2.67	2.67	230.0	1.57	1.78	2.03
1240.1	1165.1	2.06	1.83	1.68	1165.1	3.79	3.84	3.95	250.0	1.58	1.79	2.04
1290.1	1215.1	2.15	1.89	1.73	1215.1	5.12	5.14	5.31	270.0	1.62	1.81	2.05
1340.1	1265.1	2.17	1.89	1.75	1265.1	6.56	6.56	6.81	310.0	1.59	1.76	1.97
1390.1	1315.1	2.28	1.98	1.83	1315.1	7.63	7.60	7.83	330.0	1.56	1.71	1.90
1440.1	1365.1	2.22	1.93	1.80	1365.1	8.72	8.64	8.99	370.0	1.60	1.71	1.89
1490.1	1415.1	2.23	1.95	1.81	1415.1	9.63	9.53	9.96	390.0	1.63	1.74	1.91
1540.1	1465.1	2.09	1.83	1.70	1465.1	10.25	10.07	10.50	430.0	1.65	1.73	1.87
1590.1	1515.1	2.08	1.82	1.70	1515.1	10.62	10.50	10.96	450.0	1.70	1.75	1.86
1640.1	1565.1	1.98	1.74	1.62	1565.1	10.43	10.13	10.43	490.0	1.75	1.76	1.83
1690.1	1615.1	1.98	1.73	1.61	1615.1	10.69	10.43	10.82	510.0	1.72	1.72	1.79
1740.1	1665.1	1.87	1.61	1.50	1665.1	10.50	10.19	10.37	550.0	1.77	1.72	1.77
1790.1	1715.1	1.81	1.54	1.43	1715.1	11.09	10.89	11.31	570.0	1.85	1.79	1.82
1840.1	1765.1	1.70	1.44	1.34	1765.1	10.56	10.31	10.43	610.0	1.90	1.81	1.80
1890.1	1815.1	1.64	1.38	1.29	1815.1	10.89	10.69	11.09	630.0	1.91	1.80	1.77
1940.1	1865.1	1.57	1.32	1.22	1865.1	10.43	10.07	10.07	670.0	2.02	1.87	1.80
1990.1	1915.1	1.49	1.26	1.17	1915.1	11.24	11.03	11.31	690.0	2.02	1.86	1.79
2040.1	1965.1	1.44	1.22	1.13	1965.1	10.43	10.07	9.96	730.0	2.04	1.86	1.77
2090.1	2015.1	1.36	1.15	1.09	2015.1	10.69	10.50	10.69	750.0	2.17	1.97	1.85
2140.1	2065.1	1.34	1.13	1.06	2065.1	9.96	9.69	9.48	790.0	2.23	2.01	1.87
2190.1	2115.1	1.24	1.07	1.08	2115.1	10.37	10.19	10.37	810.0	2.21	1.98	1.83
2240.1	2165.1	1.23	1.04	1.06	2165.1	9.85	9.53	9.28	850.0	2.30	2.04	1.88
2290.1	2215.1	1.13	1.05	1.15	2215.1	10.13	10.02	10.07	870.0	2.31	2.06	1.89
2340.1	2265.1	1.14	1.05	1.14	2265.1	9.53	9.23	8.90	910.0	2.32	2.07	1.89
2390.1	2315.1	1.07	1.14	1.24	2315.1	9.53	9.43	9.38	930.0	2.39	2.12	1.93
2440.1	2365.1	1.09	1.15	1.24	2365.1	9.23	8.99	8.60	970.0	2.47	2.19	1.98
2490.1	2415.1	1.13	1.24	1.34	2415.1	9.48	9.33	9.23	990.0	2.40	2.13	1.93
2550.1	2475.1	1.17	1.25	1.35	2475.1	8.99	8.77	8.35	1030.0	2.39	2.12	1.92
2600.1	2525.1	1.24	1.33	1.42	2525.1	8.81	8.64	8.35	1050.0	2.47	2.21	2.00

REV. X2

HJK-ED11090/1

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Page 4 of 5



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	21	23	31	30	32	33	36	36	39
1	-	42	+0	23	13	26	31	27	43	32	50	42
2	68	47	61	53	56	51	56	55	57	59	64	72
3	>90	77	80	70	66	65	65	64	71	67	71	72
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>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: 1130 MHz; 0.00 dBm.
LO IN: 1055 MHz; +17.00 dBm
IF OUT: 75 MHz; -8.09 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	36	32	35	37	48	40	51	47	53
1	-	39	+0	23	14	27	32	28	53	33	53	43
2	48	38	47	43	44	41	49	45	48	50	59	61
3	77	61	57	57	46	50	47	50	54	52	56	56
4	84	73	81	70	72	66	68	66	62	68	72	68
5	>90	82	76	82	83	71	68	68	66	65	70	69
6	>90	90	86	>92	89	80	86	80	82	80	77	83
7	>90	>92	87	>92	88	89	>92	82	83	81	80	78
8	>90	>92	>92	>92	>92	>92	>92	91	>92	90	>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: 1130 MHz; 10.00 dBm.
LO IN: 1055 MHz; +17.00 dBm
IF OUT: 75 MHz; 1.88 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-ED11090/1

101012

Page 5 of 5



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