

Frequency Mixer

HJK-ED13654/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+15	+17	+19			+15	+17	+19			+15	+17	+19
40.0	70.0	7.49	7.41	7.25	73.0	15.0	13.73	16.31	14.86	40.0	70.0	-0.09	-0.07	-0.07
73.0	103.0	7.29	7.22	7.17	106.0	48.0	22.35	22.98	32.05	73.0	103.0	-0.11	-0.09	-0.07
106.0	136.0	7.18	7.12	7.07	139.0	81.0	27.55	29.32	30.64	106.0	136.0	-0.09	-0.06	-0.04
139.0	169.0	7.14	7.09	7.05	172.0	114.0	24.64	26.95	26.06	139.0	169.0	-0.07	-0.05	-0.03
172.0	202.0	6.91	6.87	6.85	205.0	147.0	26.97	28.52	30.57	172.0	202.0	-0.04	-0.03	-0.02
205.0	235.0	7.00	6.98	7.06	238.0	180.0	29.41	31.63	33.17	205.0	235.0	-0.02	-0.01	-0.02
238.0	268.0	6.97	6.93	6.91	285.0	227.0	34.22	39.92	33.30	238.0	268.0	-0.02	-0.01	-0.01
286.0	316.0	7.01	6.92	6.85	289.0	231.0	34.19	41.19	33.45	286.0	316.0	-0.09	-0.06	-0.03
289.0	319.0	7.02	6.93	6.85	292.0	234.0	34.31	39.31	33.67	289.0	319.0	-0.10	-0.06	-0.04
292.0	322.0	7.03	6.94	6.86	295.0	237.0	35.72	42.61	33.15	292.0	322.0	-0.11	-0.06	-0.04
295.0	325.0	7.05	6.95	6.88	298.0	240.0	35.55	43.85	33.12	295.0	325.0	-0.11	-0.07	-0.04
298.0	328.0	7.07	6.97	6.89	301.0	243.0	36.97	43.05	32.26	298.0	328.0	-0.12	-0.07	-0.04
301.0	331.0	7.10	7.00	6.91	304.0	246.0	35.78	42.11	32.79	301.0	331.0	-0.13	-0.08	-0.05
304.0	334.0	7.13	7.03	6.94	307.0	249.0	35.47	42.07	32.69	304.0	334.0	-0.13	-0.08	-0.05
307.0	337.0	7.16	7.05	6.97	310.0	252.0	34.68	43.49	33.30	307.0	337.0	-0.14	-0.09	-0.06
310.0	340.0	7.17	7.07	6.98	313.0	255.0	34.69	40.28	33.47	310.0	340.0	-0.15	-0.09	-0.06
313.0	343.0	7.19	7.07	6.98	316.0	258.0	33.97	39.33	33.97	313.0	343.0	-0.16	-0.10	-0.06
316.0	346.0	7.19	7.07	6.98	319.0	261.0	29.99	38.58	34.48	316.0	346.0	-0.17	-0.11	-0.06
319.0	349.0	7.19	7.08	6.97	322.0	264.0	32.77	37.58	34.86	319.0	349.0	-0.18	-0.11	-0.07
322.0	352.0	7.20	7.07	6.97	325.0	267.0	32.42	36.81	36.11	322.0	352.0	-0.19	-0.13	-0.08
326.0	356.0	7.21	7.08	6.96	329.0	271.0	30.78	34.04	38.71	326.0	356.0	-0.21	-0.13	-0.08
329.0	359.0	7.21	7.08	6.96	332.0	274.0	30.90	33.87	38.91	329.0	359.0	-0.22	-0.14	-0.09
332.0	362.0	7.22	7.07	6.96	335.0	277.0	30.52	33.58	38.39	332.0	362.0	-0.23	-0.15	-0.10
335.0	365.0	7.22	7.08	6.96	388.0	330.0	23.49	25.88	29.65	335.0	365.0	-0.25	-0.15	-0.10
388.0	418.0	7.70	7.47	7.29	460.0	402.0	17.59	19.19	20.96	388.0	418.0	-0.52	-0.29	-0.16
460.0	490.0	8.71	8.28	7.94	532.0	474.0	15.10	17.27	19.86	460.0	490.0	-1.20	-0.80	-0.48
532.0	562.0	9.73	9.17	8.75	604.0	546.0	14.60	16.39	18.16	532.0	562.0	-1.63	-1.13	-0.71
604.0	634.0	10.51	9.84	9.38	676.0	618.0	13.13	14.41	15.86	604.0	634.0	-1.97	-1.41	-0.92
676.0	706.0	11.17	10.36	9.73	748.0	690.0	11.90	13.07	14.48	676.0	706.0	-2.29	-1.72	-1.21
748.0	778.0	11.52	10.66	10.00	820.0	762.0	10.93	11.87	13.09	748.0	778.0	-2.20	-1.71	-1.23
820.0	850.0	12.01	11.06	10.32	892.0	834.0	10.48	11.28	12.34	820.0	850.0	-2.92	-2.42	-1.85
892.0	922.0	12.54	11.46	10.61	964.0	906.0	9.97	10.60	11.48	892.0	922.0	-3.24	-2.77	-2.21
964.0	994.0	12.72	11.57	10.66	1036.0	978.0	9.93	10.65	11.66	964.0	994.0	-3.37	-2.88	-2.29
1060.0	1090.0	13.03	11.91	11.10	1132.0	1074.0	10.13	11.02	12.26	1060.0	1090.0	-3.22	-2.66	-2.00
1132.0	1162.0	13.40	12.37	11.68	1204.0	1146.0	10.41	11.39	12.63	1132.0	1162.0	-2.81	-2.23	-1.61
1204.0	1234.0	13.92	12.92	12.25	1276.0	1218.0	10.76	11.85	13.67	1204.0	1234.0	-3.10	-2.46	-1.74
1276.0	1306.0	14.44	13.52	12.91	1348.0	1290.0	11.48	12.82	14.52	1276.0	1306.0	-2.35	-1.75	-1.17
1348.0	1378.0	15.08	14.28	13.75	1420.0	1362.0	12.65	14.35	16.28	1348.0	1378.0	-2.06	-1.44	-0.91
1420.0	1450.0	15.87	15.16	14.73	1492.0	1434.0	13.70	15.58	17.62	1420.0	1450.0	-1.60	-1.05	-0.65
1468.0	1498.0	16.40	15.67	15.21	1540.0	1482.0	14.46	16.42	18.48	1468.0	1498.0	-1.30	-0.84	-0.52

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=310.1MHz (dB)
		@LO (dBm)
		+17
231.1	79.0	7.73
219.1	91.0	7.62
207.1	103.0	7.48
195.1	115.0	7.44
181.1	129.0	7.34
169.1	141.0	7.23
157.1	153.0	7.17
145.1	165.0	7.03
133.1	177.0	6.93
121.1	189.0	6.86
107.1	203.0	6.80
95.1	215.0	6.78
83.1	227.0	6.76
68.1	242.0	6.74
62.1	248.0	6.72
56.1	254.0	6.53
50.1	260.0	6.76
38.1	272.0	6.77
26.1	284.0	6.77
14.1	296.0	6.81
9.9	320.0	6.98
21.9	332.0	7.02
33.9	344.0	7.09
47.9	358.0	7.13
53.9	364.0	7.17
59.9	370.0	7.20
67.9	378.0	7.23
87.9	398.0	7.26
123.9	434.0	7.38
159.9	470.0	7.63
201.9	512.0	7.98
237.9	548.0	8.33
273.9	584.0	8.82
309.9	620.0	9.17
345.9	656.0	9.51
381.9	692.0	10.01
417.9	728.0	10.11
459.9	770.0	10.44
495.9	806.0	10.74
531.9	842.0	10.68

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=285.1MHz (dB)
		@LO (dBm)
		+17
228.1	57.0	7.80
222.1	63.0	7.74
216.1	69.0	7.68
210.1	75.0	7.63
204.1	81.0	7.60
198.1	87.0	7.57
192.1	93.0	7.55
184.1	101.0	7.49
178.1	107.0	7.46
172.1	113.0	7.39
166.1	119.0	7.34
160.1	125.0	7.27
154.1	131.0	7.18
148.1	137.0	7.12
142.1	143.0	7.07
136.1	149.0	6.98
130.1	155.0	6.93
124.1	161.0	6.94
118.1	167.0	6.93
112.1	173.0	6.89
104.1	181.0	6.84
98.1	187.0	6.80
92.1	193.0	6.79
86.1	199.0	6.79
80.1	205.0	6.77
74.1	211.0	6.66
68.1	217.0	6.65
65.1	220.0	6.66
62.1	223.0	6.64
59.1	226.0	6.53
56.1	229.0	6.48
53.1	232.0	6.53
50.1	235.0	6.63
44.1	241.0	6.68
38.1	247.0	6.68
32.1	253.0	6.69
26.1	259.0	6.69
20.1	265.0	6.69
14.1	271.0	6.73
10.1	275.0	6.76

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=335MHz (dB)
		@LO (dBm)
		+17
269.0	66.0	7.82
260.0	75.0	7.73
251.0	84.0	7.67
242.0	93.0	7.57
233.0	102.0	7.48
224.0	111.0	7.37
215.0	120.0	7.28
203.0	132.0	7.17
194.0	141.0	7.11
185.0	150.0	7.05
176.0	159.0	7.00
167.0	168.0	6.97
158.0	177.0	6.83
149.0	186.0	6.74
140.0	195.0	6.75
131.0	204.0	6.69
122.0	213.0	6.66
113.0	222.0	6.66
104.0	231.0	6.64
95.0	240.0	6.60
83.0	252.0	6.57
74.0	261.0	6.48
68.0	267.0	6.50
64.0	271.0	6.54
61.0	274.0	6.60
58.0	277.0	6.62
55.0	280.0	6.64
52.0	283.0	6.66
48.0	287.0	6.67
40.0	295.0	6.72
37.0	298.0	6.73
34.0	301.0	6.75
31.0	304.0	6.76
27.0	308.0	6.78
24.0	311.0	6.79
21.0	314.0	6.79
18.0	317.0	6.81
15.0	320.0	6.82
12.0	323.0	6.83
10.0	325.0	6.88

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+15	+17	+19	+15	+17	+19
70.0	79.93	79.74	80.78	71.43	71.90	71.55
103.0	77.57	77.56	77.36	63.54	63.81	64.05
136.0	75.99	75.75	75.28	59.22	59.37	59.43
169.0	76.98	76.87	76.74	55.13	55.21	55.29
202.0	71.06	70.69	70.49	50.34	50.41	50.47
235.0	70.75	70.33	71.35	46.33	46.36	46.42
268.0	67.72	66.48	64.63	39.33	39.35	41.41
316.0	67.41	66.13	64.69	39.02	39.04	41.20
319.0	67.23	65.87	64.95	38.84	38.86	41.01
322.0	66.93	65.59	65.29	38.69	38.72	40.84
325.0	66.49	65.14	65.68	38.60	38.62	40.68
328.0	65.97	64.71	66.09	38.57	38.59	40.54
331.0	65.48	64.28	66.45	38.58	38.62	40.42
334.0	64.88	63.76	66.53	38.64	38.67	40.32
337.0	64.23	63.15	66.38	38.73	38.76	40.20
340.0	63.69	62.68	66.00	38.83	38.85	40.09
343.0	63.32	62.33	65.22	38.94	38.97	39.98
346.0	62.98	61.98	64.14	39.08	39.11	39.89
349.0	62.78	61.82	63.04	39.25	39.27	39.82
352.0	62.61	61.75	62.25	39.44	39.46	39.82
356.0	62.57	61.75	61.67	39.75	39.77	39.94
359.0	62.52	61.79	61.38	40.01	40.03	40.12
362.0	62.48	61.80	61.15	40.28	40.31	40.35
365.0	62.33	62.04	61.47	44.40	44.45	44.55
418.0	59.30	59.25	59.17	49.05	49.10	49.17
490.0	57.06	57.12	57.03	52.11	52.10	52.13
562.0	55.43	55.42	55.42	54.12	53.96	53.80
634.0	54.79	54.98	55.40	57.69	57.41	57.23
706.0	53.96	54.27	54.55	66.77	66.95	66.18
778.0	52.35	52.56	52.82	62.81	63.00	62.55
850.0	51.40	51.52	51.60	55.31	55.15	54.88
922.0	51.72	52.06	52.28	51.65	51.49	51.42
994.0	51.62	52.12	52.72	48.74	48.51	48.27
1090.0	51.22	51.61	52.03	45.97	45.78	45.52
1162.0	50.39	50.67	50.82	44.25	44.13	43.98
1234.0	48.53	48.52	47.49	43.10	43.02	42.50
1306.0	46.29	46.24	45.96	41.80	41.76	41.58
1378.0	44.40	44.31	44.15	40.00	39.94	39.79
1450.0	43.41	43.31	43.21	39.09	39.03	38.93
1498.0	43.01	42.92	42.82	39.10	39.04	38.97

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+15	+17	+19
40.0	70.0	32.54	32.06	34.32
73.0	103.0	36.62	34.76	43.13
106.0	136.0	33.33	31.76	35.05
139.0	169.0	25.80	25.71	28.22
172.0	202.0	30.09	31.44	33.18
205.0	235.0	35.92	36.78	37.52
238.0	268.0	42.04	42.02	44.80
286.0	316.0	42.42	42.49	44.81
289.0	319.0	42.55	42.73	44.97
292.0	322.0	42.60	42.88	45.31
295.0	325.0	42.54	42.91	45.79
298.0	328.0	42.45	42.89	45.98
301.0	331.0	42.35	42.82	45.66
304.0	334.0	42.15	42.66	45.33
307.0	337.0	41.96	42.48	45.12
310.0	340.0	41.68	42.20	44.46
313.0	343.0	41.25	41.76	43.27
316.0	346.0	40.83	41.31	42.12
319.0	349.0	40.40	40.85	41.02
322.0	352.0	39.91	40.27	40.00
326.0	356.0	39.07	39.49	39.55
329.0	359.0	38.63	39.03	38.75
332.0	362.0	38.37	38.77	39.01
335.0	365.0	34.36	34.16	36.08
388.0	418.0	34.65	34.69	34.93
460.0	490.0	30.86	31.13	31.71
532.0	562.0	32.58	32.85	33.19
604.0	634.0	33.52	33.26	32.67
676.0	706.0	34.67	34.20	34.15
748.0	778.0	36.73	34.72	33.03
820.0	850.0	41.04	38.70	35.38
892.0	922.0	39.55	44.70	50.43
964.0	994.0	36.29	39.63	47.65
1060.0	1090.0	33.39	35.05	37.28
1132.0	1162.0	31.83	32.64	33.66
1204.0	1234.0	29.94	30.03	29.86
1276.0	1306.0	28.39	28.24	28.07
1348.0	1378.0	28.23	28.15	28.00
1420.0	1450.0	28.60	28.56	28.45
1468.0	1498.0	28.74	28.69	28.59

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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=277MHz (:1)		
		@LO (dBm)					@LO (dBm)				@LO (dBm)		
		+15	+17	+19			+15	+17	+19		+15	+17	+19
40.0	70.0	1.57	1.59	1.59	70.0	4.28	4.26	4.24	10.0	1.29	1.30	1.32	
73.0	103.0	1.79	1.83	1.89	103.0	4.00	3.97	3.95	16.0	1.23	1.25	1.27	
106.0	136.0	1.92	1.98	2.04	136.0	3.90	3.89	3.88	22.0	1.21	1.23	1.24	
139.0	169.0	1.97	2.04	2.09	169.0	3.81	3.80	3.80	28.0	1.20	1.22	1.24	
172.0	202.0	2.06	2.12	2.18	202.0	3.63	3.62	3.60	34.0	1.21	1.23	1.24	
205.0	235.0	2.04	2.08	2.12	235.0	3.32	3.31	3.30	40.0	1.22	1.24	1.26	
238.0	268.0	1.98	2.01	2.07	268.0	1.82	1.79	1.79	48.0	1.24	1.26	1.28	
286.0	316.0	1.96	2.00	2.05	316.0	1.67	1.66	1.71	51.0	1.25	1.27	1.28	
289.0	319.0	1.95	1.99	2.04	319.0	1.57	1.57	1.67	54.0	1.25	1.27	1.29	
292.0	322.0	1.94	1.97	2.02	322.0	1.49	1.51	1.68	57.0	1.25	1.27	1.29	
295.0	325.0	1.94	1.97	2.02	325.0	1.43	1.46	1.66	60.0	1.25	1.27	1.29	
298.0	328.0	1.93	1.96	2.01	328.0	1.39	1.43	1.65	63.0	1.25	1.26	1.28	
301.0	331.0	1.93	1.96	2.00	331.0	1.39	1.39	1.65	68.0	1.24	1.26	1.28	
304.0	334.0	1.92	1.95	1.99	334.0	1.41	1.42	1.65	70.0	1.24	1.26	1.27	
307.0	337.0	1.90	1.93	1.97	337.0	1.46	1.47	1.67	76.0	1.23	1.25	1.27	
310.0	340.0	1.89	1.92	1.96	340.0	1.53	1.53	1.68	82.0	1.24	1.26	1.27	
313.0	343.0	1.87	1.89	1.93	343.0	1.60	1.61	1.72	88.0	1.25	1.27	1.29	
316.0	346.0	1.85	1.87	1.91	346.0	1.68	1.69	1.77	94.0	1.27	1.29	1.31	
319.0	349.0	1.83	1.85	1.88	349.0	1.77	1.78	1.83	100.0	1.29	1.31	1.32	
322.0	352.0	1.81	1.83	1.86	352.0	1.85	1.86	1.87	106.0	1.30	1.32	1.33	
326.0	356.0	1.79	1.81	1.83	356.0	1.96	1.97	1.98	114.0	1.29	1.31	1.33	
329.0	359.0	1.78	1.80	1.82	359.0	2.04	2.05	2.06	120.0	1.29	1.30	1.32	
332.0	362.0	1.78	1.79	1.81	362.0	2.12	2.13	2.13	126.0	1.28	1.30	1.32	
335.0	365.0	1.70	1.69	1.68	365.0	2.91	2.92	2.92	132.0	1.28	1.30	1.32	
388.0	418.0	1.89	1.83	1.78	418.0	3.18	3.18	3.18	138.0	1.30	1.31	1.33	
460.0	490.0	2.67	2.61	2.55	490.0	3.24	3.23	3.23	144.0	1.32	1.33	1.35	
532.0	562.0	3.28	3.23	3.17	562.0	3.23	3.23	3.23	150.0	1.33	1.35	1.37	
604.0	634.0	3.34	3.29	3.22	634.0	3.19	3.20	3.20	156.0	1.34	1.36	1.38	
676.0	706.0	2.97	2.96	2.91	706.0	3.14	3.15	3.17	162.0	1.34	1.36	1.38	
748.0	778.0	2.51	2.51	2.48	778.0	3.08	3.09	3.11	168.0	1.34	1.36	1.37	
820.0	850.0	2.16	2.13	2.08	850.0	3.03	3.05	3.07	174.0	1.33	1.35	1.37	
892.0	922.0	1.90	1.83	1.75	922.0	2.95	2.96	2.98	180.0	1.33	1.35	1.36	
964.0	994.0	1.91	1.85	1.80	994.0	2.86	2.87	2.87	186.0	1.33	1.35	1.37	
1060.0	1090.0	2.32	2.32	2.36	1090.0	2.76	2.76	2.76	194.0	1.35	1.36	1.38	
1132.0	1162.0	2.94	2.99	3.07	1162.0	2.68	2.68	2.68	200.0	1.36	1.37	1.39	
1204.0	1234.0	3.83	3.93	4.18	1234.0	2.59	2.59	2.60	206.0	1.37	1.39	1.40	
1276.0	1306.0	4.89	5.06	5.30	1306.0	2.50	2.50	2.50	212.0	1.38	1.39	1.41	
1348.0	1378.0	6.39	6.64	6.97	1378.0	2.39	2.39	2.39	218.0	1.37	1.39	1.40	
1420.0	1450.0	8.13	8.42	8.78	1450.0	2.29	2.29	2.29	224.0	1.37	1.38	1.40	
1468.0	1498.0	9.54	9.83	10.21	1498.0	2.21	2.21	2.21	228.0	1.36	1.37	1.39	



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IF/RF MICROWAVE COMPONENTS

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	--	15.43	36.53	35.02	42.38	36.13	36.36	51.84	70.33	67.70	68.69
1	---	35.84	--	33.84	11.63	36.66	18.15	36.77	33.75	49.07	53.59	53.47
2	104.99	78.15	67.21	73.04	69.65	71.60	76.25	76.21	71.73	78.10	81.13	91.47
3	106.93	94.19	79.12	96.26	72.29	102.24	67.46	90.54	71.19	91.55	76.33	91.76
4	127.78	122.11	116.12	117.22	114.07	110.55	102.53	108.65	99.34	112.10	103.06	111.25
5	128.53	119.33	104.84	116.77	98.42	114.07	97.58	113.46	101.53	106.32	96.46	112.04
6	127.39	126.22	125.64	124.28	114.05	122.11	106.72	116.85	111.94	112.88	108.59	116.57
7	128.77	123.11	124.99	124.66	115.69	120.86	110.85	116.99	106.85	112.84	113.10	114.70
8	126.51	123.53	124.98	123.19	124.83	124.63	125.34	123.12	116.15	116.53	112.99	113.67
9	127.15	122.82	122.09	125.24	122.34	125.14	124.47	122.79	119.60	118.77	111.76	109.83
10	127.34	124.53	124.55	123.58	124.59	123.58	121.87	123.56	121.55	123.06	122.24	115.76
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 310 MHz; 0 dBm.
 LO IN: 252 MHz; +17.00 dBm
 IF OUT: 58 MHz; -6.75 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	--	25.48	47.70	46.14	54.35	46.57	47.22	64.15	80.93	84.72	87.00
1	---	36.44	--	34.41	11.72	37.26	18.64	37.00	33.75	49.72	52.02	54.28
2	93.70	65.15	55.92	62.65	57.74	61.16	63.89	66.04	61.13	71.43	70.85	85.87
3	97.14	78.29	62.61	73.92	55.80	68.18	48.98	67.38	52.17	67.13	56.85	71.60
4	118.78	90.23	82.79	93.27	80.18	84.44	80.31	84.78	84.34	92.08	83.77	84.99
5	119.28	97.53	84.87	89.31	79.59	88.97	79.24	85.97	81.29	87.42	75.57	89.00
6	118.78	119.39	112.24	114.68	98.46	116.31	94.51	109.58	95.62	103.31	102.16	105.42
7	118.30	120.60	113.87	119.87	105.23	107.61	94.60	105.39	91.64	102.58	97.02	102.33
8	117.99	118.65	120.85	120.96	118.87	121.52	113.83	120.69	111.01	118.57	107.97	116.53
9	116.47	118.41	120.69	120.95	121.32	119.58	119.26	120.08	113.85	120.01	113.25	118.38
10	116.10	119.37	120.59	119.93	119.38	120.04	120.58	121.31	120.20	120.36	120.81	119.51
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 310 MHz; +10 dBm.
 LO IN: 252 MHz; +17.00 dBm
 IF OUT: 58 MHz; 3.26 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 represents the Harmonics level of the RF Input Signal to the mixer