

Frequency Mixer

HJK-ED9347A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=80MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
190.1	110.1	12.45	10.67	9.08
270.1	190.1	6.84	6.50	6.25
350.1	270.1	8.00	7.25	6.70
430.1	350.1	8.89	7.87	7.14
510.1	430.1	9.78	8.33	7.47
590.1	510.1	10.72	9.03	8.03
670.1	590.1	10.44	8.59	7.61
750.1	670.1	10.07	8.42	7.51
830.1	750.1	9.76	8.32	7.50
910.1	830.1	9.72	8.29	7.51
990.1	910.1	9.57	8.33	7.56
1070.1	990.1	9.16	8.11	7.48
1150.1	1070.1	8.60	7.75	7.26
1220.1	1140.1	8.32	7.62	7.19
1300.1	1220.1	8.05	7.47	7.12
1370.1	1290.1	7.84	7.37	7.08
1450.1	1370.1	7.61	7.29	7.08
1520.1	1440.1	7.46	7.25	7.10
1600.1	1520.1	7.40	7.23	7.12
1670.1	1590.1	7.47	7.36	7.28
1750.1	1670.1	7.56	7.47	7.41
1820.1	1740.1	7.56	7.48	7.43
1900.1	1820.1	7.58	7.55	7.54
1970.1	1890.1	7.57	7.55	7.57
2050.1	1970.1	7.60	7.54	7.54
2120.1	2040.1	7.78	7.64	7.61
2200.1	2120.1	7.96	7.74	7.68
2270.1	2190.1	8.07	7.82	7.75
2350.1	2270.1	8.20	7.89	7.80
2420.1	2340.1	8.35	7.94	7.80
2500.1	2420.1	8.75	8.19	7.93
2570.1	2490.1	9.15	8.49	8.11
2650.1	2570.1	9.55	8.85	8.38
2720.1	2640.1	9.77	8.98	8.39
2800.1	2720.1	10.06	9.05	8.44
2870.1	2790.1	10.44	9.30	8.63
2950.1	2870.1	10.82	9.66	8.91
3020.1	2940.1	11.12	9.93	9.18
3100.1	3020.1	11.38	10.21	9.38
3170.1	3090.1	11.86	10.43	9.53

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
190.1	110.1	15.10	15.71	16.94
270.1	190.1	20.75	22.52	24.23
350.1	270.1	19.67	22.10	23.84
430.1	350.1	17.25	20.97	24.63
510.1	430.1	19.31	18.76	20.55
590.1	510.1	15.52	17.63	20.36
670.1	590.1	24.59	20.36	21.70
750.1	670.1	21.53	20.50	22.68
830.1	750.1	20.61	21.39	23.47
910.1	830.1	20.85	21.40	23.92
990.1	910.1	20.08	21.22	24.54
1070.1	990.1	20.15	22.82	26.46
1150.1	1070.1	20.38	23.05	26.56
1220.1	1140.1	21.35	23.69	27.27
1300.1	1220.1	22.74	24.71	29.03
1370.1	1290.1	24.64	27.46	31.42
1450.1	1370.1	26.79	29.51	30.78
1520.1	1440.1	27.23	30.01	31.37
1600.1	1520.1	27.77	30.53	32.02
1670.1	1590.1	27.81	31.56	33.33
1750.1	1670.1	27.36	31.50	34.18
1820.1	1740.1	26.60	30.78	35.11
1900.1	1820.1	26.29	30.05	34.99
1970.1	1890.1	25.55	29.49	34.57
2050.1	1970.1	24.52	27.93	33.10
2120.1	2040.1	23.62	26.70	31.27
2200.1	2120.1	22.78	25.77	29.57
2270.1	2190.1	22.58	25.43	29.11
2350.1	2270.1	22.40	25.65	29.11
2420.1	2340.1	22.35	26.09	29.50
2500.1	2420.1	22.15	26.13	29.51
2570.1	2490.1	21.70	25.90	29.01
2650.1	2570.1	21.00	24.49	27.14
2720.1	2640.1	20.15	22.49	25.14
2800.1	2720.1	19.50	21.59	24.34
2870.1	2790.1	19.35	21.39	24.36
2950.1	2870.1	19.54	21.42	24.84
3020.1	2940.1	19.92	21.93	25.64
3100.1	3020.1	20.83	23.19	26.70
3170.1	3090.1	20.03	23.98	25.86

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
190.1	110.1	4.48	3.96	3.67
270.1	190.1	1.45	1.01	0.98
350.1	270.1	2.67	1.78	1.23
430.1	350.1	4.28	3.06	1.77
510.1	430.1	2.71	2.59	2.16
590.1	510.1	1.29	1.51	1.54
670.1	590.1	1.63	1.86	1.71
750.1	670.1	1.96	2.06	1.87
830.1	750.1	1.96	2.37	1.73
910.1	830.1	1.66	1.59	2.58
990.1	910.1	1.64	1.73	1.65
1070.1	990.1	1.50	1.61	2.28
1150.1	1070.1	1.28	1.44	2.05
1220.1	1140.1	1.01	1.19	1.86
1300.1	1220.1	0.85	0.92	1.63
1370.1	1290.1	0.79	0.88	1.48
1450.1	1370.1	0.78	0.95	1.33
1520.1	1440.1	0.74	0.87	1.20
1600.1	1520.1	0.64	0.80	1.09
1670.1	1590.1	0.59	0.68	0.98
1750.1	1670.1	0.58	0.67	0.88
1820.1	1740.1	0.57	0.68	0.85
1900.1	1820.1	0.60	0.69	0.83
1970.1	1890.1	0.68	0.74	0.78
2050.1	1970.1	0.85	0.82	0.76
2120.1	2040.1	1.02	0.94	0.77
2200.1	2120.1	1.14	1.07	0.84
2270.1	2190.1	1.15	1.11	0.88
2350.1	2270.1	1.25	1.23	0.87
2420.1	2340.1	1.29	1.28	0.86
2500.1	2420.1	1.33	1.27	0.96
2570.1	2490.1	1.37	1.35	1.03
2650.1	2570.1	1.33	1.26	1.08
2720.1	2640.1	1.30	1.28	1.12
2800.1	2720.1	1.36	1.28	1.15
2870.1	2790.1	1.45	1.25	1.18
2950.1	2870.1	1.59	1.41	1.17
3020.1	2940.1	1.73	1.52	1.13
3100.1	3020.1	1.85	1.70	1.09
3170.1	3090.1	1.80	1.65	1.11

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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)=1839.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1920.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
990.0	890.0	10.27	10.1	1850.0	7.36	1010.1	910.0	10.34
948.3	931.7	9.40	30.6	1870.5	7.37	989.7	930.4	9.94
906.6	973.4	9.92	51.1	1891.0	7.31	969.3	950.8	9.39
864.9	1015.1	9.69	71.6	1911.5	7.34	948.9	971.2	9.65
823.2	1056.8	9.25	92.1	1932.0	7.41	928.5	991.6	9.88
781.5	1098.5	8.97	112.5	1952.4	7.42	908.1	1012.0	9.85
739.8	1140.2	8.63	133.0	1972.9	7.42	887.7	1032.4	9.63
677.2	1202.8	8.17	153.5	1993.4	7.41	867.2	1052.9	9.55
635.5	1244.5	7.91	174.0	2013.9	7.51	846.8	1073.3	9.34
573.0	1307.0	7.64	194.5	2034.4	7.53	826.4	1093.7	9.20
531.3	1348.7	7.46	215.0	2054.9	7.55	806.0	1114.1	8.94
468.7	1411.3	7.33	235.5	2075.4	7.60	785.6	1134.5	8.87
427.0	1453.0	7.23	256.0	2095.9	7.67	765.2	1154.9	8.67
364.5	1515.5	7.27	276.4	2116.3	7.77	744.8	1175.3	8.51
322.8	1557.2	7.30	296.9	2136.8	7.81	724.4	1195.7	8.35
260.2	1619.8	7.39	317.4	2157.3	7.86	704.0	1216.1	8.20
218.5	1661.5	7.43	337.9	2177.8	7.92	683.6	1236.5	8.13
156.0	1724.0	7.45	358.4	2198.3	8.06	663.2	1256.9	7.93
114.3	1765.7	7.51	378.9	2218.8	8.09	642.8	1277.3	7.86
51.7	1828.3	7.39	399.4	2239.3	8.14	622.3	1297.8	7.74
10.0	1870.0	7.36	419.9	2259.8	8.16	581.5	1338.6	7.62
49.1	1929.1	7.36	440.3	2280.2	8.25	561.1	1359.0	7.56
88.3	1968.3	7.32	460.8	2300.7	8.39	520.3	1399.8	7.44
147.0	2027.0	7.41	481.3	2321.2	8.42	499.9	1420.2	7.41
186.2	2066.2	7.48	501.8	2341.7	8.48	459.1	1461.0	7.34
244.9	2124.9	7.68	522.3	2362.2	8.49	438.7	1481.4	7.26
284.0	2164.0	7.75	542.8	2382.7	8.67	397.9	1522.2	7.31
342.8	2222.8	8.00	563.3	2403.2	8.75	377.4	1542.7	7.36
381.9	2261.9	8.06	583.8	2423.7	8.81	336.6	1583.5	7.41
440.6	2320.6	8.28	604.2	2444.1	8.84	316.2	1603.9	7.42
479.8	2359.8	8.40	624.7	2464.6	9.00	275.4	1644.7	7.47
538.5	2418.5	8.61	645.2	2485.1	9.16	255.0	1665.1	7.44
577.7	2457.7	8.79	665.7	2505.6	9.30	214.2	1705.9	7.46
636.4	2516.4	9.11	686.2	2526.1	9.36	193.8	1726.3	7.52
675.5	2555.5	9.32	706.7	2546.6	9.41	153.0	1767.1	7.47
734.3	2614.3	9.58	727.2	2567.1	9.60	132.5	1787.6	7.50
773.4	2653.4	9.70	768.1	2608.0	9.80	91.7	1828.4	7.49
832.1	2712.1	9.91	788.6	2628.5	9.78	71.3	1848.8	7.41
871.3	2751.3	10.01	829.6	2669.5	9.98	30.5	1889.6	7.38
930.0	2810.0	10.24	850.1	2690.0	10.11	10.1	1910.0	7.37

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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
110.1	69.45	70.76	71.37	72.89	72.51	72.68
190.1	51.34	55.16	56.52	62.94	64.68	64.49
270.1	51.23	55.14	56.69	64.11	61.87	60.97
350.1	50.29	54.38	55.46	58.39	56.92	56.52
430.1	48.78	52.86	53.43	52.83	52.22	52.01
510.1	49.56	54.98	53.25	47.48	46.27	46.03
590.1	46.80	51.89	50.26	44.71	44.32	43.79
670.1	45.59	50.43	48.37	42.14	42.27	41.96
750.1	43.99	48.46	46.77	39.77	39.99	39.88
830.1	42.55	46.72	45.58	37.72	37.80	37.94
910.1	40.97	45.11	43.93	35.79	36.19	36.49
990.1	40.77	44.56	43.56	34.47	34.54	34.83
1070.1	39.04	42.28	41.31	32.56	32.41	32.70
1140.1	37.55	40.20	39.25	30.96	30.90	31.12
1220.1	35.57	37.50	36.49	29.46	29.56	29.69
1290.1	34.13	35.35	34.87	28.71	29.30	29.59
1370.1	33.02	34.12	34.33	28.02	28.63	29.00
1440.1	32.38	33.53	33.90	26.89	27.65	27.93
1520.1	31.61	32.57	33.05	26.06	26.63	26.87
1590.1	30.83	32.02	32.29	26.49	26.95	27.35
1670.1	31.84	33.43	33.84	28.97	29.39	30.05
1740.1	35.58	37.47	37.93	32.58	32.83	33.53
1820.1	39.81	41.23	40.84	33.67	33.79	34.11
1890.1	39.56	39.80	38.99	34.20	34.47	34.82
1970.1	37.89	37.71	37.24	35.00	35.25	35.87
2040.1	36.83	36.71	35.93	35.38	35.74	36.27
2120.1	36.69	36.35	35.54	35.56	36.02	36.59
2190.1	36.27	36.09	35.25	35.73	36.58	37.27
2270.1	35.94	35.85	35.04	36.74	38.30	39.74
2340.1	35.70	36.20	35.50	38.38	41.07	44.08
2420.1	33.99	35.62	35.91	40.42	43.00	43.30
2490.1	31.72	33.85	35.45	39.82	37.90	35.67
2570.1	29.31	31.02	32.56	33.77	31.13	29.27
2640.1	27.68	28.92	29.67	29.93	28.02	26.50
2720.1	26.17	27.15	27.50	28.18	26.83	25.65
2790.1	25.45	26.19	26.76	27.85	26.58	25.99
2870.1	25.16	26.13	26.66	27.76	27.21	26.69
2940.1	25.42	26.55	27.25	27.79	27.69	27.41
3020.1	26.33	27.85	28.79	27.62	28.16	28.05
3090.1	27.26	28.71	30.10	27.45	28.21	28.70

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
190.1	110.1	41.24	40.32	38.78
270.1	190.1	36.66	37.72	38.70
350.1	270.1	34.05	33.91	33.59
430.1	350.1	34.91	35.82	37.02
510.1	430.1	34.90	36.06	37.02
590.1	510.1	34.37	34.09	37.57
670.1	590.1	34.24	34.94	43.19
750.1	670.1	34.32	36.60	48.41
830.1	750.1	33.15	37.25	43.87
910.1	830.1	29.56	31.31	34.46
990.1	910.1	26.85	27.33	27.68
1070.1	990.1	35.33	34.90	34.62
1150.1	1070.1	45.54	44.04	42.12
1220.1	1140.1	49.12	47.45	45.87
1300.1	1220.1	48.70	46.34	44.00
1370.1	1290.1	42.78	40.20	37.66
1450.1	1370.1	41.21	40.60	39.77
1520.1	1440.1	39.32	39.54	39.18
1600.1	1520.1	37.06	37.62	37.38
1670.1	1590.1	35.00	35.65	35.61
1750.1	1670.1	33.78	34.36	34.28
1820.1	1740.1	35.75	35.93	35.33
1900.1	1820.1	36.80	36.58	35.63
1970.1	1890.1	34.78	34.78	34.14
2050.1	1970.1	32.60	32.58	32.23
2120.1	2040.1	31.30	31.07	30.75
2200.1	2120.1	30.01	29.40	29.03
2270.1	2190.1	29.14	28.20	27.70
2350.1	2270.1	28.30	26.69	25.95
2420.1	2340.1	28.22	25.88	24.72
2500.1	2420.1	29.43	26.32	24.51
2570.1	2490.1	31.94	28.20	25.70
2650.1	2570.1	40.12	34.34	30.38
2720.1	2640.1	48.11	48.22	37.98
2800.1	2720.1	36.69	39.73	42.11
2870.1	2790.1	33.76	34.58	35.27
2950.1	2870.1	31.58	31.36	31.28
3020.1	2940.1	30.49	29.92	29.64
3100.1	3020.1	29.81	29.19	28.88
3170.1	3090.1	29.13	28.62	28.21

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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=1840MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+14	+17	+20		+14	+17	+20	+14		+17	+20		
190.1	110.1	2.40	2.16	1.85	110.1	108.58	108.58	108.58	10.0	1.34	1.55	1.73		
270.1	190.1	1.17	1.11	1.07	190.1	17.05	17.22	17.22	50.0	1.35	1.56	1.75		
350.1	270.1	1.44	1.31	1.23	270.1	51.10	52.65	51.10	90.0	1.37	1.57	1.76		
430.1	350.1	1.69	1.50	1.42	350.1	78.97	78.97	75.53	130.0	1.37	1.55	1.72		
510.1	430.1	2.05	1.72	1.64	430.1	91.43	86.86	82.73	170.0	1.44	1.60	1.77		
590.1	510.1	2.09	1.58	1.48	510.1	82.73	82.73	78.97	210.0	1.44	1.57	1.71		
670.1	590.1	2.26	1.70	1.59	590.1	78.97	78.97	75.53	250.0	1.54	1.66	1.79		
750.1	670.1	2.33	1.77	1.66	670.1	69.49	69.49	66.82	290.0	1.55	1.64	1.75		
830.1	750.1	2.36	1.80	1.71	750.1	59.91	59.91	56.04	330.0	1.67	1.72	1.81		
910.1	830.1	2.46	1.82	1.77	830.1	52.65	49.64	45.72	370.0	1.69	1.73	1.80		
990.1	910.1	2.46	1.82	1.80	910.1	43.44	41.37	37.77	410.0	1.79	1.78	1.82		
1070.1	990.1	2.37	1.81	1.78	990.1	35.46	34.07	32.79	450.0	1.84	1.82	1.85		
1150.1	1070.1	2.29	1.76	1.76	1070.1	28.96	28.03	27.16	490.0	1.89	1.83	1.84		
1220.1	1140.1	2.19	1.70	1.71	1140.1	22.87	22.00	20.95	530.0	2.00	1.92	1.90		
1300.1	1220.1	2.07	1.63	1.64	1220.1	17.05	16.26	15.26	570.0	2.00	1.90	1.87		
1370.1	1290.1	1.92	1.53	1.56	1290.1	12.52	11.93	11.31	630.0	2.15	2.01	1.94		
1450.1	1370.1	1.77	1.45	1.48	1370.1	8.43	8.08	7.80	670.0	2.18	2.03	1.96		
1520.1	1440.1	1.65	1.39	1.42	1440.1	5.51	5.28	5.12	730.0	2.27	2.11	2.00		
1600.1	1520.1	1.50	1.33	1.32	1520.1	3.30	3.16	3.07	770.0	2.29	2.09	1.97		
1670.1	1590.1	1.38	1.29	1.26	1590.1	2.29	2.23	2.18	830.0	2.39	2.19	2.05		
1750.1	1670.1	1.29	1.27	1.23	1670.1	2.00	2.00	2.01	870.0	2.40	2.19	2.05		
1820.1	1740.1	1.25	1.28	1.23	1740.1	2.33	2.37	2.42	930.0	2.42	2.21	2.06		
1900.1	1820.1	1.21	1.30	1.26	1820.1	3.42	3.50	3.55	970.0	2.45	2.22	2.07		
1970.1	1890.1	1.19	1.30	1.27	1890.1	4.61	4.69	4.75	1030.0	2.44	2.22	2.07		
2050.1	1970.1	1.21	1.30	1.28	1970.1	5.75	5.85	5.89	1070.0	2.43	2.22	2.07		
2120.1	2040.1	1.24	1.31	1.27	2040.1	6.42	6.46	6.44	1130.0	2.36	2.15	2.01		
2200.1	2120.1	1.29	1.32	1.26	2120.1	6.66	6.61	6.49	1170.0	2.41	2.20	2.06		
2270.1	2190.1	1.33	1.35	1.28	2190.1	6.51	6.44	6.28	1230.0	2.35	2.16	2.02		
2350.1	2270.1	1.37	1.37	1.28	2270.1	5.95	5.91	5.83	1270.0	2.29	2.11	1.98		
2420.1	2340.1	1.44	1.41	1.29	2340.1	5.22	5.14	5.10	1330.0	2.21	2.03	1.91		
2500.1	2420.1	1.51	1.46	1.30	2420.1	4.27	4.14	4.04	1370.0	2.22	2.06	1.94		
2570.1	2490.1	1.64	1.56	1.37	2490.1	3.53	3.37	3.24	1430.0	2.14	1.98	1.87		
2650.1	2570.1	1.72	1.62	1.44	2570.1	2.90	2.81	2.74	1470.0	2.04	1.90	1.80		
2720.1	2640.1	1.80	1.68	1.52	2640.1	2.51	2.49	2.49	1530.0	1.99	1.85	1.76		
2800.1	2720.1	1.93	1.76	1.63	2720.1	2.15	2.17	2.18	1570.0	1.95	1.83	1.74		
2870.1	2790.1	2.06	1.84	1.73	2790.1	1.87	1.89	1.89	1630.0	1.89	1.79	1.71		
2950.1	2870.1	2.16	1.90	1.81	2870.1	1.59	1.61	1.61	1670.0	1.81	1.71	1.65		
3020.1	2940.1	2.20	1.91	1.85	2940.1	1.41	1.43	1.43	1730.0	1.78	1.70	1.65		
3100.1	3020.1	2.21	1.89	1.87	3020.1	1.29	1.31	1.33	1770.0	1.77	1.71	1.68		
3170.1	3090.1	2.23	1.87	1.88	3090.1	1.26	1.29	1.31	1830.0	1.47	1.50	1.56		

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	23	30	28	34	37	35	41	47	73
1	-	29	+0	37	19	39	32	51	39	41	39	68
2	55	49	53	64	56	62	64	67	67	58	62	72
3	89	78	64	73	58	69	63	71	70	>85	77	75
4	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
5	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
6	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
7	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
8	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
9	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
10	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1880 MHz; 2.00 dBm.
LO IN: 1800 MHz; +17.00 dBm
IF OUT: 80 MHz; -5.35 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	34	40	39	44	44	47	52	67	75
1	-	28	+0	36	19	41	34	54	42	44	45	63
2	35	39	44	56	47	53	55	62	65	52	63	66
3	60	65	43	62	37	57	43	56	51	69	57	64
4	80	94	77	69	68	70	67	76	72	90	73	66
5	>90	83	86	73	68	67	61	63	62	67	66	83
6	>90	>94	>94	>94	94	89	88	82	81	87	86	>94
7	>90	87	>94	91	>94	82	89	78	88	74	81	78
8	>90	>94	>94	>94	>94	>94	>94	94	>94	89	89	94
9	>90	>94	>94	>94	>94	>94	>94	94	>94	>94	93	91
10	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1880 MHz; 12.00 dBm.
LO IN: 1800 MHz; +17.00 dBm
IF OUT: 80 MHz; 4.48 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.