

Frequency Mixer

HJK-ED11052/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=21.4MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
300.0	278.6	15.23	12.30	10.51
380.0	358.6	9.96	8.63	8.05
460.0	438.6	7.75	7.40	7.16
540.0	518.6	7.61	7.30	7.26
620.0	598.6	8.20	8.03	8.08
700.0	678.6	8.40	8.05	7.90
780.0	758.6	8.53	8.03	7.75
860.0	838.6	8.70	8.14	7.79
940.0	918.6	8.90	8.31	7.94
1020.0	998.6	8.95	8.38	8.02
1100.0	1078.6	8.91	8.32	7.94
1180.0	1158.6	9.19	8.46	7.91
1260.0	1238.6	9.49	8.90	8.62
1340.0	1318.6	9.35	8.84	8.52
1420.0	1398.6	9.20	8.71	8.40
1500.0	1478.6	9.17	8.71	8.47
1580.0	1558.6	8.99	8.59	8.40
1660.0	1638.6	8.78	8.40	8.24
1740.0	1718.6	8.60	8.25	8.12
1800.0	1778.6	8.49	8.16	8.05
1880.0	1858.6	8.40	8.09	8.00
1940.0	1918.6	8.50	8.23	8.18
2020.0	1998.6	8.50	8.29	8.29
2080.0	2058.6	8.49	8.28	8.27
2160.0	2138.6	8.50	8.28	8.27
2220.0	2198.6	8.50	8.27	8.23
2300.0	2278.6	8.59	8.36	8.27
2360.0	2338.6	8.74	8.49	8.38
2440.0	2418.6	8.87	8.56	8.39
2500.0	2478.6	8.93	8.60	8.41
2580.0	2558.6	9.20	8.84	8.60
2640.0	2618.6	9.55	9.18	8.95
2720.0	2698.6	9.94	9.62	9.41
2780.0	2758.6	10.32	9.97	9.77
2860.0	2838.6	10.57	10.26	10.10
2920.0	2898.6	10.58	10.25	10.04
3000.0	2978.6	10.75	10.42	10.16
3060.0	3038.6	11.07	10.69	10.39
3140.0	3118.6	11.70	11.25	10.92
3200.0	3178.6	12.00	11.57	11.23

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
300.0	278.6	9.86	13.09	16.41
380.0	358.6	17.93	20.18	21.65
460.0	438.6	21.33	23.59	26.98
540.0	518.6	20.91	23.30	25.12
620.0	598.6	20.60	22.30	27.71
700.0	678.6	21.67	25.04	28.78
780.0	758.6	21.93	24.61	28.76
860.0	838.6	23.04	24.65	28.80
940.0	918.6	21.11	24.38	27.22
1020.0	998.6	19.93	23.95	27.04
1100.0	1078.6	20.96	24.62	25.47
1180.0	1158.6	23.31	24.04	23.31
1260.0	1238.6	24.52	27.38	29.86
1340.0	1318.6	24.33	26.69	29.67
1420.0	1398.6	23.45	25.64	28.98
1500.0	1478.6	24.05	27.66	30.89
1580.0	1558.6	24.34	28.28	31.59
1660.0	1638.6	23.66	28.16	31.24
1740.0	1718.6	23.55	28.21	32.23
1800.0	1778.6	24.30	28.92	32.89
1880.0	1858.6	24.77	28.38	32.49
1940.0	1918.6	25.64	27.94	30.94
2020.0	1998.6	24.50	29.26	30.72
2080.0	2058.6	24.39	29.01	30.76
2160.0	2138.6	23.95	28.11	30.19
2220.0	2198.6	23.84	28.07	30.56
2300.0	2278.6	23.16	26.68	29.75
2360.0	2338.6	22.84	25.72	29.19
2440.0	2418.6	22.65	25.36	28.89
2500.0	2478.6	22.39	25.25	29.08
2580.0	2558.6	22.61	25.43	28.95
2640.0	2618.6	22.86	26.63	29.46
2720.0	2698.6	22.53	26.95	30.03
2780.0	2758.6	24.50	29.00	31.54
2860.0	2838.6	24.77	30.18	32.33
2920.0	2898.6	23.66	28.79	31.91
3000.0	2978.6	23.33	27.79	31.38
3060.0	3038.6	23.73	27.62	31.65
3140.0	3118.6	24.07	27.67	32.17
3200.0	3178.6	24.53	28.00	32.93

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
300.0	278.6	0.69	1.11	0.85
380.0	358.6	1.47	0.77	0.66
460.0	438.6	0.85	0.51	0.36
540.0	518.6	0.72	0.59	0.27
620.0	598.6	1.18	0.68	0.32
700.0	678.6	1.34	0.95	0.26
780.0	758.6	1.20	1.07	0.25
860.0	838.6	0.87	0.99	0.19
940.0	918.6	0.96	1.12	0.25
1020.0	998.6	1.30	1.32	0.38
1100.0	1078.6	1.45	1.32	0.55
1180.0	1158.6	1.13	1.24	0.47
1260.0	1238.6	0.91	0.96	0.32
1340.0	1318.6	0.84	0.95	0.26
1420.0	1398.6	0.76	0.92	0.23
1500.0	1478.6	0.69	0.77	0.17
1580.0	1558.6	0.67	0.70	0.15
1660.0	1638.6	0.66	0.68	0.16
1740.0	1718.6	0.63	0.66	0.15
1800.0	1778.6	0.62	0.62	0.15
1880.0	1858.6	0.61	0.58	0.16
1940.0	1918.6	0.63	0.54	0.15
2020.0	1998.6	0.67	0.49	0.14
2080.0	2058.6	0.66	0.50	0.14
2160.0	2138.6	0.62	0.50	0.15
2220.0	2198.6	0.57	0.47	-0.07
2300.0	2278.6	0.60	0.51	-0.06
2360.0	2338.6	0.63	0.55	-0.05
2440.0	2418.6	0.61	0.56	-0.05
2500.0	2478.6	0.60	0.57	-0.06
2580.0	2558.6	0.62	0.64	-0.04
2640.0	2618.6	0.61	0.64	-0.04
2720.0	2698.6	0.58	0.56	-0.10
2780.0	2758.6	0.59	0.48	-0.10
2860.0	2838.6	0.47	0.44	-0.10
2920.0	2898.6	0.37	0.49	-0.18
3000.0	2978.6	0.31	0.48	-0.23
3060.0	3038.6	0.26	0.45	-0.24
3140.0	3118.6	0.27	0.46	-0.24
3200.0	3178.6	0.30	0.47	-0.23

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2160.1001MHz (dB)
		@LO (dBm)
		+17
940.0	1220.1	10.39
892.3	1267.8	10.17
844.6	1315.5	9.81
796.9	1363.2	9.45
749.2	1410.9	9.15
701.5	1458.6	8.94
653.8	1506.3	8.75
606.2	1553.9	8.54
558.5	1601.6	8.34
510.8	1649.3	8.21
463.1	1697.0	8.17
415.4	1744.7	8.07
367.7	1792.4	8.13
320.0	1840.1	8.05
272.3	1887.8	8.15
224.6	1935.5	8.24
176.9	1983.2	8.25
129.2	2030.9	8.19
81.5	2078.6	8.04
33.8	2126.3	8.00
10.0	2170.1	8.42
43.3	2203.4	7.94
76.7	2236.8	7.95
110.0	2270.1	7.94
143.3	2303.4	7.93
176.7	2336.8	8.04
210.0	2370.1	8.07
243.3	2403.4	8.14
276.7	2436.8	8.31
310.0	2470.1	8.43
343.3	2503.4	8.52
376.7	2536.8	8.67
410.0	2570.1	8.80
443.3	2603.4	8.97
476.7	2636.8	9.20
510.0	2670.1	9.33
543.3	2703.4	9.58
576.7	2736.8	9.78
610.0	2770.1	9.85
660.0	2820.1	9.96

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1960.1MHz (dB)
		@LO (dBm)
		+17
10.0	1970.1	8.49
30.0	1990.1	8.04
50.0	2010.1	7.92
70.0	2030.1	7.96
90.0	2050.1	7.86
110.0	2070.1	7.85
130.0	2090.1	8.05
150.0	2110.1	7.96
170.0	2130.1	7.99
190.0	2150.1	8.06
210.0	2170.1	8.05
230.0	2190.1	8.08
250.0	2210.1	8.06
270.0	2230.1	8.13
290.0	2250.1	8.19
310.0	2270.1	8.27
330.0	2290.1	8.26
350.0	2310.1	8.34
370.0	2330.1	8.46
390.0	2350.1	8.54
410.0	2370.1	8.62
430.0	2390.1	8.57
450.0	2410.1	8.74
470.0	2430.1	8.84
490.0	2450.1	8.94
510.0	2470.1	8.97
530.0	2490.1	9.02
550.0	2510.1	9.18
570.0	2530.1	9.30
590.0	2550.1	9.41
610.0	2570.1	9.41
630.0	2590.1	9.46
650.0	2610.1	9.59
680.0	2640.1	9.78
700.0	2660.1	9.80
730.0	2690.1	9.83
750.0	2710.1	9.89
780.0	2740.1	9.93
800.0	2760.1	9.96
830.0	2790.1	9.96

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2360.1001MHz (dB)
		@LO (dBm)
		+17
1050.0	1310.1	10.71
1020.0	1340.1	10.66
990.0	1370.1	10.43
960.0	1400.1	10.20
930.0	1430.1	10.22
900.0	1460.1	10.09
870.0	1490.1	9.93
840.0	1520.1	9.83
810.0	1550.1	9.70
780.0	1580.1	9.52
750.0	1610.1	9.44
720.0	1640.1	9.39
690.0	1670.1	9.27
660.0	1700.1	9.18
640.0	1720.1	9.15
610.0	1750.1	9.10
590.0	1770.1	9.06
560.0	1800.1	8.98
540.0	1820.1	8.93
510.0	1850.1	8.84
490.0	1870.1	8.89
460.0	1900.1	8.88
440.0	1920.1	8.88
410.0	1950.1	9.02
390.0	1970.1	9.02
360.0	2000.1	8.99
340.0	2020.1	8.95
310.0	2050.1	8.84
290.0	2070.1	8.85
260.0	2100.1	8.77
240.0	2120.1	8.74
210.0	2150.1	8.68
190.0	2170.1	8.65
160.0	2200.1	8.59
140.0	2220.1	8.55
110.0	2250.1	8.53
90.0	2270.1	8.41
60.0	2300.1	8.43
40.0	2320.1	8.44
10.0	2350.1	8.80

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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
278.6	38.74	38.70	39.52	41.59	43.12	44.43
358.6	33.88	33.89	35.74	37.54	38.74	39.73
438.6	28.33	28.46	31.52	31.75	32.66	32.44
518.6	26.21	26.63	30.09	29.52	29.93	28.11
598.6	28.23	28.45	32.30	33.35	33.99	34.34
678.6	29.66	29.73	33.01	35.75	36.90	37.04
758.6	30.60	30.56	33.37	35.99	37.07	37.07
838.6	31.19	31.06	33.50	36.25	37.16	37.04
918.6	31.68	31.42	33.46	37.36	38.68	38.44
998.6	33.13	32.91	34.68	39.57	42.22	42.50
1078.6	36.34	36.54	37.88	38.40	39.55	40.58
1158.6	35.73	35.57	35.93	33.71	33.82	33.97
1238.6	31.16	30.79	31.29	30.91	31.22	31.33
1318.6	28.27	27.98	29.04	29.22	29.54	29.73
1398.6	27.15	26.93	28.55	28.24	28.55	28.77
1478.6	25.99	25.85	27.71	27.63	28.05	28.38
1558.6	25.10	24.96	26.85	28.18	28.71	29.05
1638.6	24.23	24.06	25.94	28.40	29.03	29.33
1718.6	24.10	24.01	26.15	27.73	28.20	28.42
1778.6	24.60	24.72	27.35	27.42	27.84	28.00
1858.6	24.85	25.10	27.96	28.50	29.29	29.60
1918.6	25.34	25.73	28.65	31.67	32.90	32.54
1998.6	26.27	26.75	30.05	35.85	38.87	39.20
2058.6	26.40	26.79	30.08	34.43	37.01	38.59
2138.6	27.02	27.36	30.60	33.35	35.41	36.68
2198.6	27.39	27.83	31.10	32.59	34.43	35.38
2278.6	28.01	28.36	31.54	31.55	33.01	33.79
2338.6	28.31	28.46	31.42	30.77	32.00	32.64
2418.6	28.84	28.84	31.72	30.02	30.99	31.49
2478.6	29.80	29.71	32.45	29.77	30.63	30.82
2558.6	30.38	30.23	32.68	29.39	30.31	30.49
2618.6	30.94	30.51	32.79	29.49	30.29	30.40
2698.6	32.37	31.64	33.53	30.69	31.58	31.58
2758.6	35.73	34.23	36.01	34.78	35.99	36.08
2838.6	34.66	36.45	39.63	43.27	43.19	44.23
2898.6	31.31	33.07	35.63	33.34	33.83	34.63
2978.6	30.29	31.54	33.73	29.10	29.51	30.29
3038.6	30.05	31.07	33.06	27.47	27.89	28.55
3118.6	29.51	30.19	31.99	26.06	26.27	26.80
3178.6	29.26	29.86	31.62	25.23	25.41	25.96

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
300.0	278.6	41.34	38.36	35.48
380.0	358.6	38.35	36.81	36.59
460.0	438.6	33.36	33.06	32.84
540.0	518.6	34.75	33.43	31.86
620.0	598.6	28.54	25.75	24.87
700.0	678.6	27.96	25.96	25.63
780.0	758.6	27.73	25.35	24.54
860.0	838.6	27.18	24.57	23.33
940.0	918.6	26.84	24.27	23.01
1020.0	998.6	25.04	23.30	22.34
1100.0	1078.6	22.25	21.75	21.91
1180.0	1158.6	18.45	17.74	17.48
1260.0	1238.6	17.48	17.03	16.61
1340.0	1318.6	18.80	17.69	16.89
1420.0	1398.6	19.77	18.55	17.78
1500.0	1478.6	19.68	18.65	18.21
1580.0	1558.6	19.93	18.88	18.53
1660.0	1638.6	20.49	19.29	18.92
1740.0	1718.6	21.96	20.37	19.89
1800.0	1778.6	23.65	21.86	21.38
1880.0	1858.6	25.17	23.74	23.42
1940.0	1918.6	25.19	24.09	24.65
2020.0	1998.6	27.38	25.91	26.67
2080.0	2058.6	29.29	27.46	28.49
2160.0	2138.6	30.48	29.08	29.91
2220.0	2198.6	31.15	30.26	30.98
2300.0	2278.6	32.08	31.13	31.32
2360.0	2338.6	33.33	32.23	31.89
2440.0	2418.6	35.96	34.86	33.63
2500.0	2478.6	37.60	37.89	35.48
2580.0	2558.6	34.20	36.08	34.07
2640.0	2618.6	30.95	31.89	30.92
2720.0	2698.6	27.73	27.69	27.00
2780.0	2758.6	26.88	26.46	25.57
2860.0	2838.6	28.03	28.78	29.11
2920.0	2898.6	28.34	29.78	32.36
3000.0	2978.6	29.11	29.78	32.33
3060.0	3038.6	29.91	30.09	32.17
3140.0	3118.6	31.06	30.85	32.54
3200.0	3178.6	32.37	31.73	32.97

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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=2138.6001MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
300.0	278.6	2.08	1.89	1.74	278.6	96.51	96.51	86.86	10.0	1.30	1.50	1.81
380.0	358.6	1.33	1.32	1.35	358.6	36.97	34.07	32.18	70.0	1.32	1.49	1.72
460.0	438.6	1.31	1.42	1.55	438.6	6.35	6.39	6.09	130.0	1.37	1.51	1.71
540.0	518.6	1.43	1.52	1.61	518.6	2.84	3.00	2.89	190.0	1.49	1.60	1.76
620.0	598.6	1.49	1.68	1.88	598.6	5.93	5.52	6.24	250.0	1.61	1.67	1.79
700.0	678.6	1.53	1.70	1.87	678.6	9.90	8.81	10.19	310.0	1.74	1.76	1.83
780.0	758.6	1.55	1.63	1.74	758.6	12.61	11.24	12.52	370.0	1.94	1.92	1.95
860.0	838.6	1.66	1.65	1.72	838.6	14.50	12.89	13.92	430.0	2.06	2.01	1.98
940.0	918.6	1.80	1.73	1.76	918.6	16.26	14.62	15.53	490.0	2.23	2.14	2.09
1020.0	998.6	1.94	1.81	1.81	998.6	17.39	16.26	16.72	550.0	2.36	2.24	2.16
1100.0	1078.6	2.09	1.91	1.86	1078.6	19.32	18.90	19.32	610.0	2.44	2.28	2.17
1180.0	1158.6	2.35	2.16	2.02	1158.6	20.45	20.22	19.98	670.0	2.56	2.38	2.23
1260.0	1238.6	2.37	2.12	1.94	1238.6	15.81	14.87	14.26	730.0	2.61	2.41	2.24
1340.0	1318.6	2.25	2.04	1.91	1318.6	11.85	10.89	10.62	790.0	2.69	2.47	2.29
1420.0	1398.6	2.20	2.00	1.90	1398.6	9.28	8.43	8.55	850.0	2.71	2.49	2.31
1500.0	1478.6	2.07	1.88	1.78	1478.6	7.66	6.91	7.34	910.0	2.67	2.45	2.27
1580.0	1558.6	1.93	1.73	1.63	1558.6	6.28	5.68	6.19	950.0	2.65	2.44	2.25
1660.0	1638.6	1.81	1.60	1.49	1638.6	5.13	4.62	5.14	1010.0	2.62	2.42	2.25
1740.0	1718.6	1.73	1.50	1.38	1718.6	4.15	3.74	4.22	1050.0	2.57	2.37	2.20
1800.0	1778.6	1.69	1.45	1.32	1778.6	3.52	3.18	3.60	1110.0	2.50	2.31	2.17
1880.0	1858.6	1.58	1.36	1.23	1858.6	3.09	2.83	3.22	1150.0	2.44	2.25	2.12
1940.0	1918.6	1.46	1.26	1.15	1918.6	2.99	2.77	3.18	1210.0	2.29	2.11	1.99
2020.0	1998.6	1.36	1.22	1.19	1998.6	3.06	2.86	3.30	1250.0	2.22	2.05	1.93
2080.0	2058.6	1.35	1.24	1.23	2058.6	3.19	3.00	3.41	1310.0	2.08	1.93	1.82
2160.0	2138.6	1.31	1.27	1.31	2138.6	3.53	3.33	3.79	1350.0	2.01	1.87	1.76
2220.0	2198.6	1.32	1.33	1.40	2198.6	3.87	3.68	4.23	1410.0	1.91	1.78	1.67
2300.0	2278.6	1.33	1.38	1.47	2278.6	4.32	4.09	4.64	1450.0	1.86	1.73	1.63
2360.0	2338.6	1.31	1.38	1.49	2338.6	4.61	4.34	4.82	1510.0	1.73	1.62	1.52
2440.0	2418.6	1.31	1.43	1.55	2418.6	5.02	4.73	5.27	1550.0	1.71	1.60	1.51
2500.0	2478.6	1.34	1.49	1.63	2478.6	5.25	4.98	5.59	1610.0	1.64	1.54	1.46
2580.0	2558.6	1.37	1.53	1.68	2558.6	5.36	5.04	5.58	1650.0	1.64	1.56	1.48
2640.0	2618.6	1.42	1.61	1.78	2618.6	5.23	4.88	5.28	1710.0	1.63	1.56	1.50
2720.0	2698.6	1.63	1.83	2.02	2698.6	4.95	4.64	5.07	1750.0	1.67	1.62	1.57
2780.0	2758.6	1.86	2.09	2.29	2758.6	4.72	4.47	4.83	1810.0	1.62	1.59	1.57
2860.0	2838.6	2.12	2.38	2.57	2838.6	5.07	4.91	5.06	1850.0	1.65	1.63	1.63
2920.0	2898.6	2.29	2.54	2.72	2898.6	5.87	5.65	5.74	1910.0	1.61	1.63	1.65
3000.0	2978.6	2.62	2.86	3.04	2978.6	6.56	6.28	6.44	1950.0	1.64	1.68	1.71
3060.0	3038.6	2.86	3.08	3.25	3038.6	6.53	6.24	6.37	2010.0	1.64	1.70	1.75
3140.0	3118.6	3.12	3.31	3.45	3118.6	6.30	5.97	5.97	2050.0	1.67	1.77	1.84
3200.0	3178.6	3.50	3.66	3.78	3178.6	6.39	6.05	6.07	2110.0	1.56	1.71	1.85

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	10	20	23	26	30	39	45	61	63
1	-	21	+0	28	18	34	41	45	47	43	59	62
2	63	45	49	51	55	52	57	57	58	67	76	78
3	>100	70	65	65	63	65	69	75	86	85	84	>91
4	>100	>91	>91	>91	>91	>91	87	90	>91	>91	88	>91
5	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
6	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
7	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
8	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
9	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
10	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 2160 MHz; 0.00 dBm.
LO IN: 2138.6 MHz; +17.00 dBm
IF OUT: 21.4 MHz; -9.2 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	19	29	33	35	43	52	62	69	80
1	-	18	+0	26	17	31	40	41	47	41	58	60
2	43	33	36	40	46	42	48	47	53	63	65	68
3	75	50	43	49	52	51	49	65	69	72	66	70
4	>100	72	64	63	66	64	63	64	78	69	72	84
5	>100	82	78	71	73	63	56	62	72	77	80	76
6	>100	>99	93	84	77	79	76	86	74	87	83	92
7	>100	86	>99	89	89	80	80	71	80	71	81	77
8	>100	>99	>99	96	>99	89	91	87	85	90	87	>99
9	>100	>99	>99	>99	>99	99	93	97	93	88	84	89
10	>100	>99	>99	>99	>99	>99	>99	>99	98	98	93	89
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 2160 MHz; 10.00 dBm.
LO IN: 2138.6 MHz; +17.00 dBm
IF OUT: 21.4 MHz; -0.82 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.