Frequency Mixer MAC-24LH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) @LO (dBm)		
		+7	+10	+13
300.1	330.1	7.68	5.93	5.67
350.1	380.1	5.66	5.26	5.32
400.1	430.1	5.42	5.09	4.91
450.1	480.1	6.24	5.64	5.25
500.1	530.1	7.43	6.47	5.92
550.1	580.1	7.65	6.80	6.36
650.1	680.1	6.76	6.55	6.46
700.1	730.1	6.48	6.33	6.30
750.1	780.1	6.55	6.20	6.11
800.1	830.1	6.95	6.47	6.27
850.1	880.1	7.33	6.91	6.65
900.1	930.1	7.56	7.13	6.84
950.1	980.1	7.50	7.11	6.89
1000.1	1030.1	7.33	7.01	6.84
1050.1	1080.1	7.19	7.00	6.89
1100.1	1130.1	7.25	7.00	6.86
1150.1	1180.1	7.72	7.24	6.96
1200.1	1230.1	8.32	7.51	7.04
1250.1	1280.1	8.17	7.47	7.02
1300.1	1330.1	8.51	7.64	7.06
1350.1	1380.1	7.36	6.72	6.28
1400.1	1430.1	6.34	5.96	5.72
1450.1	1480.1	6.23	5.74	5.47
1500.1	1530.1	5.92	5.51	5.24
1550.1	1580.1	5.77	5.19	5.09
1600.1	1630.1	5.28	5.06	5.01
1650.1	1680.1	5.33	5.17	5.16
1700.1	1730.1	5.45	5.29	5.25
1750.1	1780.1	5.54	5.28	5.22
1800.1	1830.1	5.42	5.30	5.27
1850.1	1880.1	5.50	5.36	5.36
1900.1	1930.1	5.82	5.35	5.24
1950.1	1980.1	6.20	5.61	5.39
2000.1	2030.1	6.97	6.06	5.60
2050.1	2080.1	7.46	6.45	5.86
2100.1	2130.1	8.45	7.35	6.78
2200.1	2230.1	8.21	6.99	6.43
2300.1	2330.1	8.25	6.45	6.08
2400.1	2430.1	8.47	6.41	6.15

RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm) @LO (dBm)		
		+7	+10	+13
300.1	330.1	7.07	10.04	15.74
350.1	380.1	12.30	15.00	14.62
400.1	430.1	8.49	10.06	12.70
450.1	480.1	7.69	9.80	12.05
500.1	530.1	9.77	13.76	15.92
550.1	580.1	9.87	13.21	15.46
650.1	680.1	12.60	12.36	13.82
700.1	730.1	11.06	15.37	14.71
750.1	780.1	11.92	10.13	14.83
800.1	830.1	19.48	13.92	12.80
850.1	880.1	16.91	17.63	16.81
900.1	930.1	17.49	19.29	24.02
950.1	980.1	17.65	20.24	22.16
1000.1	1030.1	16.13	15.11	18.31
1050.1	1080.1	20.63	21.19	19.86
1100.1	1130.1	16.20	17.03	18.94
1150.1	1180.1	22.41	19.20	17.66
1200.1	1230.1	13.60	18.18	20.10
1250.1	1280.1	12.44	15.06	18.31
1300.1	1330.1	10.09	10.65	12.19
1350.1	1380.1	11.11	9.47	10.34
1400.1	1430.1	11.90	10.36	9.53
1450.1	1480.1	7.52	7.23	7.34
1500.1	1530.1	6.27	8.28	11.98
1550.1	1580.1	9.80	17.23	17.54
1600.1	1630.1	16.66	17.13	17.31
1650.1	1680.1	18.43	17.89	17.16
1700.1	1730.1	14.83	20.43	21.47
1750.1	1780.1	17.94	19.04	18.09
1800.1	1830.1	16.58	18.56	20.38
1850.1	1880.1	11.74	16.98	20.68
1900.1	1930.1	10.57	16.19	16.77
1950.1	1980.1	7.61	14.64	18.89
2000.1	2030.1	7.43	9.33	16.62
2050.1	2080.1	8.47	10.06	11.11
2100.1	2130.1	9.28	12.30	14.62
2200.1	2230.1	8.75	10.02	13.36
2300.1	2330.1	8.47	13.13	19.02
2400.1	2430.1	13.96	17.50	21.25

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB) @LO (dBm)		
		+7	+10	+13
300.1	330.1	2.22	1.62	0.89
350.1	380.1	2.21	1.65	1.19
400.1	430.1	2.90	2.43	2.05
450.1	480.1	2.61	2.38	2.15
500.1	530.1	1.46	1.60	1.55
550.1	580.1	0.94	0.97	0.86
650.1	680.1	0.84	0.65	0.54
700.1	730.1	0.87	0.56	0.37
750.1	780.1	0.92	0.73	0.53
800.1	830.1	0.65	0.59	0.48
850.1	880.1	0.54	0.39	0.32
900.1	930.1	0.37	0.30	0.27
950.1	980.1	0.59	0.42	0.29
1000.1	1030.1	0.53	0.36	0.23
1050.1	1080.1	0.60	0.35	0.21
1100.1	1130.1	1.14	0.94	0.86
1150.1	1180.1	0.76	0.50	0.31
1200.1	1230.1	0.69	0.65	0.51
1250.1	1280.1	0.69	0.56	0.46
1300.1	1330.1	1.22	1.26	1.23
1350.1	1380.1	1.67	1.58	1.50
1400.1	1430.1	1.83	1.62	1.46
1450.1	1480.1	1.68	1.52	1.34
1500.1	1530.1	1.70	1.49	1.28
1550.1	1580.1	1.44	1.14	0.76
1600.1	1630.1	1.31	0.68	0.47
1650.1	1680.1	1.19	0.68	0.45
1700.1	1730.1	1.23	0.80	0.56
1750.1	1780.1	1.39	0.98	0.68
1800.1	1830.1	1.15	0.65	0.45
1850.1	1880.1	1.30	0.61	0.36
1900.1	1930.1	1.50	1.04	0.66
1950.1	1980.1	1.39	1.06	0.73
2000.1	2030.1	1.02	0.95	0.78
2050.1	2080.1	0.58	0.73	0.73
2100.1	2130.1	0.41	0.49	0.49
2200.1	2230.1	0.82	0.60	0.51
2300.1	2330.1	0.71	0.73	0.41
2400.1	2430.1	0.79	0.78	0.44

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1800.1MHz (dB) @LO (dBm) +10
900.0	900.1	11.91
800.0	1000.1	8.48
700.0	1100.1	8.47
600.0	1200.1	6.92
500.0	1300.1	5.51
400.0	1400.1	5.41
300.0	1500.1	5.46
260.0	1540.1	5.49
240.0	1560.1	5.65
220.0	1580.1	5.71
200.0	1600.1	5.76
180.0	1620.1	5.87
160.0	1640.1	5.88
140.0	1660.1	5.78
120.0	1680.1	5.63
100.0	1700.1	5.64
80.0	1720.1	5.60
60.0	1740.1	5.45
40.0	1760.1	5.39
20.0	1780.1	5.32
10.0	1810.1	5.32
30.0	1830.1	5.31
50.0	1850.1	5.36
70.0	1870.1	5.45
90.0	1890.1	5.46
110.0	1910.1	5.41
130.0	1930.1	5.38
150.0	1950.1	5.40
170.0	1970.1	5.49
190.0	1990.1	5.43
220.0	2020.1	5.58
260.0	2060.1	6.00
300.0	2100.1	6.20
340.0	2140.1	6.57
400.0	2200.1	6.60
500.0	2300.1	6.65
600.0	2400.1	6.69
700.0	2500.1	6.92
800.0	2600.1	8.88
900.0	2700.1	13.18

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=300.1MHz (dB) @LO (dBm) +10
10.0	310.1	6.31
20.0	320.1	6.22
30.0	330.1	5.93
40.0	340.1	5.84
50.0	350.1	5.84
60.0	360.1	5.88
70.0	370.1	5.88
80.0	380.1	5.80
90.0	390.1	5.76
100.0	400.1	5.74
110.0	410.1	5.65
120.0	420.1	5.52
130.0	430.1	5.49
140.0	440.1	5.52
150.0	450.1	5.55
160.0	460.1	5.75
170.0	470.1	5.89
180.0	480.1	5.93
190.0	490.1	5.95
200.0	500.1	5.98
220.0	520.1	6.04
240.0	540.1	6.12
260.0	560.1	6.26
280.0	580.1	6.30
300.0	600.1	6.36
320.0	620.1	6.57
340.0	640.1	6.74
360.0	660.1	6.65
400.0	700.1	6.70
450.0	750.1	7.57
500.0	800.1	6.93
550.0	850.1	6.78
600.0	900.1	6.67
650.0	950.1	6.72
700.0	1000.1	6.89
750.0	1050.1	7.32
800.0	1100.1	7.85
850.0	1150.1	9.38
900.0	1200.1	11.65
950.0	1250.1	17.40

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2400.1MHz (dB) @LO (dBm) +10
900.0	1500.1	14.28
850.0	1550.1	11.78
800.0	1600.1	9.43
750.0	1650.1	8.36
700.0	1700.1	7.96
650.0	1750.1	7.88
600.0	1800.1	7.50
550.0	1850.1	7.83
500.0	1900.1	7.39
450.0	1950.1	7.49
400.0	2000.1	7.63
350.0	2050.1	7.98
300.0	2100.1	7.82
280.0	2120.1	8.05
260.0	2140.1	7.92
250.0	2150.1	7.73
240.0	2160.1	7.59
230.0	2170.1	7.42
220.0	2180.1	7.22
210.0	2190.1	7.13
200.0	2200.1	7.10
190.0	2210.1	7.13
180.0	2220.1	7.19
170.0	2230.1	7.10
160.0	2240.1	6.90
150.0	2250.1	6.70
140.0	2260.1	6.55
130.0	2270.1	6.48
120.0	2280.1	6.52
110.0	2290.1	6.56
100.0	2300.1	6.63
90.0	2310.1	6.69
80.0	2320.1	6.65
70.0	2330.1	6.60
60.0	2340.1	6.50
50.0	2350.1	6.42
40.0	2360.1	6.36
30.0	2370.1	6.32
20.0	2380.1	6.29
10.0	2390.1	6.31

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+7	+10	+13	+7	+10	+13
330.1	48.38	46.64	45.52	21.46	22.45	24.24
380.1	41.59	41.01	40.95	20.39	22.53	24.37
430.1	39.95	40.20	40.35	21.46	23.85	25.86
480.1	38.05	38.60	38.96	22.58	24.58	26.08
530.1	40.10	40.22	40.43	23.63	25.61	26.92
580.1	47.44	46.30	45.37	25.51	27.19	28.05
680.1	52.34	49.13	47.74	27.47	26.76	25.97
730.1	48.10	44.83	43.43	27.18	26.16	25.46
780.1	46.71	44.89	43.51	28.08	27.44	26.95
830.1	45.83	44.46	43.09	32.17	31.00	29.46
880.1	45.67	45.80	46.04	28.59	29.31	29.71
930.1	44.91	44.79	44.81	25.43	27.40	29.21
980.1	45.25	45.10	45.11	22.27	24.17	25.91
1030.1	45.82	45.49	44.85	21.52	23.17	24.52
1080.1	47.66	46.70	45.62	23.17	24.72	25.80
1130.1	47.91	46.84	46.01	25.27	26.53	27.21
1180.1	48.55	47.40	46.62	27.66	29.01	29.60
1230.1	43.72	42.93	42.68	27.82	29.34	30.30
1280.1	48.95	47.26	45.84	29.78	31.51	32.58
1330.1	44.85	44.54	44.13	30.57	32.75	33.98
1380.1	40.47	40.06	40.51	30.05	32.78	34.76
1430.1	47.64	41.67	37.19	29.60	32.88	36.12
1480.1	45.20	42.96	41.33	28.34	30.73	33.57
1530.1	43.14	39.01	36.13	26.70	28.47	31.04
1580.1	42.59	38.92	36.60	25.30	27.74	30.46
1630.1	39.69	37.35	35.64	26.02	28.32	30.70
1680.1	38.15	35.97	34.72	26.43	28.56	30.64
1730.1	36.62	34.22	33.15	24.34	26.18	28.14
1780.1	41.00	39.72	37.35	23.13	24.75	26.58
1830.1	38.12	36.15	34.44	21.79	23.59	25.45
1880.1	37.23	35.98	34.69	21.61	23.24	24.93
1930.1	37.04	35.58	34.55	21.52	23.02	24.59
1980.1	36.78	35.57	34.61	21.77	23.13	24.60
2030.1	37.88	35.76	34.42	22.88	24.05	25.53
2080.1	40.63	37.76	35.82	22.93	24.36	26.04
2130.1	39.36	37.22	35.87	24.43	26.46	28.42
2230.1	39.79	36.45	33.47	22.62	23.36	23.89
2330.1	40.25	40.78	38.43	21.96	23.10	23.68
2430.1	37.75	37.74	36.15	23.01	26.07	27.04

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+7	+10	+13
300.1	330.1	22.65	19.54	18.69
350.1	380.1	18.98	17.84	17.24
400.1	430.1	16.50	15.85	15.26
450.1	480.1	14.84	14.38	14.05
500.1	530.1	15.73	15.22	14.86
550.1	580.1	19.02	18.10	17.58
650.1	680.1	28.78	27.57	26.88
700.1	730.1	30.73	30.98	30.60
750.1	780.1	32.66	31.03	29.14
800.1	830.1	31.29	29.73	28.43
850.1	880.1	31.67	29.62	28.30
900.1	930.1	31.45	29.97	28.88
950.1	980.1	33.28	32.31	31.64
1000.1	1030.1	39.37	38.93	38.56
1050.1	1080.1	37.00	36.63	36.37
1100.1	1130.1	33.23	32.74	32.39
1150.1	1180.1	31.93	31.38	30.90
1200.1	1230.1	29.79	29.42	28.92
1250.1	1280.1	26.07	26.03	26.09
1300.1	1330.1	23.21	22.61	22.52
1350.1	1380.1	23.54	22.12	21.50
1400.1	1430.1	27.98	24.93	22.14
1450.1	1480.1	23.86	23.79	23.74
1500.1	1530.1	25.24	23.76	22.86
1550.1	1580.1	24.07	23.78	23.50
1600.1	1630.1	23.45	23.47	23.57
1650.1	1680.1	23.22	23.09	23.03
1700.1	1730.1	23.42	22.97	22.68
1750.1	1780.1	23.70	23.17	22.81
1800.1	1830.1	25.99	25.85	25.78
1850.1	1880.1	25.62	24.96	24.71
1900.1	1930.1	25.17	24.50	24.36
1950.1	1980.1	27.09	27.38	28.14
2000.1	2030.1	30.63	29.69	29.60
2050.1	2080.1	47.06	49.50	45.82
2100.1	2130.1	26.75	24.74	23.55
2200.1	2230.1	27.21	24.42	23.35
2300.1	2330.1	38.98	34.55	30.17
2400.1	2430.1	35.83	27.94	26.13

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+7	+10	+13
300.1	330.1	2.29	1.94	1.94
350.1	380.1	1.63	1.59	1.57
400.1	430.1	1.69	1.56	1.47
450.1	480.1	2.56	2.35	2.20
500.1	530.1	3.85	3.42	3.12
550.1	580.1	4.38	3.97	3.74
650.1	680.1	3.78	3.52	3.42
700.1	730.1	3.79	3.33	3.08
750.1	780.1	4.01	3.58	3.13
800.1	830.1	4.32	3.81	3.43
850.1	880.1	4.57	4.18	3.91
900.1	930.1	4.77	4.38	4.05
950.1	980.1	4.58	4.21	3.98
1000.1	1030.1	4.33	4.02	3.84
1050.1	1080.1	3.91	3.74	3.62
1100.1	1130.1	4.06	3.83	3.67
1150.1	1180.1	4.51	4.21	3.99
1200.1	1230.1	4.82	4.43	4.16
1250.1	1280.1	4.62	4.36	4.15
1300.1	1330.1	4.50	4.13	3.92
1350.1	1380.1	3.46	3.02	2.77
1400.1	1430.1	2.81	2.45	2.08
1450.1	1480.1	2.50	2.21	1.94
1500.1	1530.1	2.00	1.61	1.33
1550.1	1580.1	1.54	1.25	1.21
1600.1	1630.1	1.20	1.15	1.18
1650.1	1680.1	1.14	1.13	1.20
1700.1	1730.1	1.15	1.07	1.10
1750.1	1780.1	1.19	1.06	1.08
1800.1	1830.1	1.37	1.42	1.47
1850.1	1880.1	1.19	1.22	1.28
1900.1	1930.1	1.50	1.30	1.25
1950.1	1980.1	1.89	1.62	1.49
2000.1	2030.1	2.46	2.13	1.87
2050.1	2080.1	2.91	2.53	2.25
2100.1	2130.1	3.67	3.23	2.94
2200.1	2230.1	3.74	3.16	2.80
2300.1	2330.1	3.62	2.64	2.28
2400.1	2430.1	3.39	2.42	2.19

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+7	+10	+13
330.1	12.60	7.45	6.24
380.1	4.14	3.94	4.46
430.1	2.25	2.57	3.20
480.1	1.55	1.99	2.60
530.1	1.30	1.55	2.03
580.1	1.53	1.43	1.82
680.1	2.07	1.91	2.25
730.1	2.25	2.26	2.71
780.1	2.52	2.70	3.22
830.1	2.71	3.14	3.85
880.1	2.79	3.33	4.14
930.1	2.81	3.56	4.52
980.1	2.65	3.45	4.44
1030.1	2.53	3.44	4.51
1080.1	2.44	3.32	4.36
1130.1	2.76	3.55	4.53
1180.1	2.99	3.60	4.41
1230.1	3.09	3.60	4.35
1280.1	3.18	3.40	3.96
1330.1	3.46	3.42	3.77
1380.1	3.30	3.23	3.46
1430.1	3.00	2.85	3.09
1480.1	2.71	2.34	2.47
1530.1	2.27	1.81	1.93
1580.1	2.08	1.59	1.71
1630.1	2.05	1.57	1.65
1680.1	2.00	1.52	1.62
1730.1	1.73	1.39	1.61
1780.1	1.66	1.37	1.69
1830.1	1.82	1.59	1.86
1880.1	2.11	1.81	2.06
1930.1	2.54	2.17	2.28
1980.1	2.83	2.47	2.52
2030.1	3.36	2.72	2.67
2080.1	3.61	2.86	2.75
2130.1	4.44	3.00	2.63
2230.1	6.13	3.32	2.38
2330.1	7.59	4.05	2.48
2430.1	7.73	4.62	2.65

IF (OUT) (MHz)	IF VSWR @LO=2400.1MHz (:1) @LO (dBm)		
	+7	+10	+13
0.3	1.65	1.14	1.40
0.4	1.67	1.13	1.39
0.5	1.67	1.13	1.39
0.6	1.67	1.13	1.39
0.7	1.67	1.13	1.39
0.8	1.67	1.13	1.39
1.0	1.67	1.13	1.39
2.0	1.69	1.13	1.38
3.0	1.68	1.13	1.38
4.0	1.68	1.13	1.38
5.0	1.68	1.13	1.38
6.0	1.68	1.13	1.38
7.0	1.67	1.13	1.38
8.0	1.68	1.13	1.38
9.0	1.68	1.13	1.38
10.0	1.68	1.12	1.38
20.0	1.71	1.11	1.36
30.0	1.71	1.11	1.35
40.0	1.72	1.11	1.34
50.0	1.73	1.11	1.34
60.0	1.75	1.10	1.33
70.0	1.77	1.10	1.31
80.0	1.80	1.11	1.30
90.0	1.83	1.11	1.30
100.0	1.85	1.12	1.29
110.0	1.89	1.12	1.27
120.0	1.93	1.13	1.25
150.0	2.05	1.19	1.24
200.0	2.29	1.30	1.24
250.0	2.55	1.44	1.32
300.0	2.82	1.57	1.38
350.0	3.11	1.73	1.47
400.0	3.46	1.90	1.55
450.0	3.74	2.08	1.67
500.0	3.99	2.24	1.80
550.0	4.19	2.37	1.91
600.0	4.26	2.42	1.99
650.0	4.20	2.45	2.09
700.0	3.97	2.47	2.27

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	-1.36	20.66	13.74	22.95	20.34	28.17	14.64	30.83	30.27	58.91
1	---	20.45	---	30.02	13.62	44.83	29.45	43.74	28.82	43.63	48.12	43.63
2	122.75	67.20	63.45	59.04	53.64	65.50	65.59	64.32	59.38	61.39	48.15	63.45
3	127.29	76.40	66.68	72.51	63.73	72.05	62.30	83.86	78.39	75.21	72.93	90.60
4	128.65	98.22	96.54	103.13	97.24	93.82	96.35	93.42	106.36	97.21	89.05	93.83
5	125.80	108.70	103.34	112.67	100.85	105.34	101.30	107.53	102.49	108.00	105.11	108.26
6	127.92	106.09	111.50	107.96	107.14	108.94	103.02	107.00	108.74	107.98	106.13	104.06
7	129.12	103.31	108.85	107.70	112.02	110.75	106.60	113.08	108.21	105.61	106.64	112.28
8	123.17	101.59	108.21	103.16	104.67	104.64	110.72	105.66	108.54	99.65	106.84	109.35
9	124.88	100.73	108.10	105.20	106.06	107.51	105.41	108.08	108.59	106.05	103.06	104.53
10	123.99	99.98	104.75	102.64	102.88	106.65	107.78	107.24	105.46	110.48	106.33	103.48
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1800.1 MHz; -10 dBm.
LO IN: 1830.1 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -15.07 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	8.73	30.99	24.25	34.63	31.82	43.03	28.11	46.88	46.82	71.07
1	---	19.96	---	31.59	14.05	46.22	28.55	48.35	30.55	46.84	47.49	52.18
2	117.49	54.52	52.15	50.38	44.59	57.61	57.51	58.00	52.68	53.67	41.72	58.08
3	110.73	56.02	49.41	57.64	43.31	54.68	41.50	65.74	58.03	56.50	48.74	71.25
4	111.35	74.73	70.29	83.86	64.89	70.46	66.01	68.50	86.81	69.69	69.47	69.47
5	118.39	82.52	86.40	82.28	68.20	73.13	69.33	76.05	66.29	83.88	72.47	77.08
6	124.75	89.17	93.97	90.21	91.31	87.59	82.08	85.09	87.83	81.29	93.10	83.79
7	112.93	93.99	95.16	92.12	97.86	105.04	87.72	91.73	82.74	91.21	78.42	95.75
8	113.30	102.21	102.13	94.82	98.58	102.08	90.90	94.20	95.28	108.03	92.85	105.15
9	117.93	102.54	96.20	108.39	104.86	102.19	98.41	107.45	95.17	102.31	98.61	110.40
10	104.93	99.35	92.31	102.10	100.48	106.76	111.27	108.64	95.07	128.34	94.56	106.93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1800.1 MHz; 0 dBm.
LO IN: 1830.1 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -5.11 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