Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) @LO (dBm)		
		+14	+17	+20
3000.1	3030.1	52.15	32.91	15.88
3218.1	3248.1	39.61	22.43	8.84
3436.2	3466.2	21.09	9.32	6.88
3654.2	3684.2	9.19	7.23	6.63
3872.3	3902.3	7.56	6.89	6.54
4090.3	4120.3	7.17	6.69	6.38
4308.4	4338.4	7.05	6.53	6.16
4526.4	4556.4	6.54	6.26	6.13
4744.5	4774.5	6.78	6.42	6.24
4962.5	4992.5	7.28	6.57	6.23
5180.6	5210.6	8.14	7.27	6.84
5398.6	5428.6	8.22	7.24	6.78
5616.6	5646.6	7.99	7.10	6.60
5834.7	5864.7	7.70	7.06	6.56
6052.7	6082.7	7.32	6.66	6.17
6270.8	6300.8	7.15	6.50	6.07
6488.8	6518.8	7.03	6.42	6.04
6706.9	6736.9	7.10	6.28	5.91
6924.9	6954.9	7.18	6.31	5.92
7143.0	7173.0	7.64	6.14	5.74
7361.0	7391.0	8.50	6.16	5.75
7579.0	7609.0	8.81	6.36	5.97
7797.1	7827.1	8.12	6.20	5.83
8036.9	8066.9	7.47	6.17	5.91
8255.0	8285.0	7.19	6.14	5.93
8494.8	8524.8	7.64	6.37	6.15
8712.9	8742.9	6.98	6.33	6.19
8952.7	8982.7	7.68	7.03	6.83
9170.8	9200.8	8.10	7.42	7.24
9410.6	9440.6	8.85	8.27	8.07
9628.7	9658.7	9.96	9.07	8.90
9868.5	9898.5	9.78	8.95	8.81
10086.6	10116.6	10.34	9.36	9.11
10326.4	10356.4	10.69	9.62	9.38
10544.5	10574.5	10.60	9.59	9.45
10784.3	10814.3	11.70	9.61	9.25
11002.4	11032.4	15.06	9.81	9.39
11242.2	11272.2	23.36	10.32	9.37
11460.3	11490.3	29.92	10.95	9.52
11700.1	11730.1	40.64	14.27	10.97

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+14	+17	+20
3000.1	3030.1	9.64	1.40	6.32
3218.1	3248.1	3.83	1.66	16.56
3436.2	3466.2	2.91	16.75	19.48
3654.2	3684.2	16.77	19.55	22.63
3872.3	3902.3	19.40	22.02	23.64
4090.3	4120.3	22.29	25.22	27.63
4308.4	4338.4	24.67	24.51	23.31
4526.4	4556.4	22.97	27.46	30.81
4744.5	4774.5	22.43	25.09	27.52
4962.5	4992.5	26.94	26.91	27.76
5180.6	5210.6	27.21	29.16	31.33
5398.6	5428.6	27.31	25.53	26.30
5616.6	5646.6	26.32	24.44	25.05
5834.7	5864.7	25.97	23.95	23.06
6052.7	6082.7	23.35	23.10	22.50
6270.8	6300.8	22.35	23.00	22.17
6488.8	6518.8	21.27	23.41	23.31
6706.9	6736.9	19.50	21.98	22.68
6924.9	6954.9	18.36	21.67	22.93
7143.0	7173.0	17.28	21.32	22.97
7361.0	7391.0	16.95	19.77	22.26
7579.0	7609.0	17.82	19.99	22.23
7797.1	7827.1	19.22	20.48	22.20
8036.9	8066.9	18.53	20.24	21.72
8255.0	8285.0	19.21	20.71	22.18
8494.8	8524.8	19.52	22.07	23.60
8712.9	8742.9	21.92	23.75	24.82
8952.7	8982.7	22.21	24.38	25.46
9170.8	9200.8	24.03	25.92	27.10
9410.6	9440.6	24.27	25.93	26.02
9628.7	9658.7	23.08	26.74	27.40
9868.5	9898.5	23.36	27.53	27.71
10086.6	10116.6	24.01	27.35	26.89
10326.4	10356.4	23.93	27.09	26.97
10544.5	10574.5	23.96	27.05	27.35
10784.3	10814.3	24.60	26.81	27.50
11002.4	11032.4	15.96	25.05	26.33
11242.2	11272.2	7.18	25.72	25.70
11460.3	11490.3	3.84	26.11	25.36
11700.1	11730.1	1.12	16.77	24.87

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB) @LO (dBm)		
		+14	+17	+20
3000.1	3030.1	-34.79	-19.22	-5.00
3218.1	3248.1	-25.88	-10.74	0.36
3436.2	3466.2	-9.51	0.50	1.26
3654.2	3684.2	1.44	1.53	0.86
3872.3	3902.3	2.01	1.05	0.58
4090.3	4120.3	1.52	0.79	0.53
4308.4	4338.4	1.18	0.70	0.50
4526.4	4556.4	1.22	0.52	0.23
4744.5	4774.5	1.05	0.41	0.22
4962.5	4992.5	0.80	0.50	0.31
5180.6	5210.6	0.57	0.42	0.26
5398.6	5428.6	0.38	0.49	0.45
5616.6	5646.6	0.39	0.49	0.53
5834.7	5864.7	0.47	0.42	0.47
6052.7	6082.7	0.69	0.52	0.59
6270.8	6300.8	0.92	0.59	0.61
6488.8	6518.8	1.22	0.75	0.69
6706.9	6736.9	1.32	0.76	0.74
6924.9	6954.9	1.24	0.75	0.70
7143.0	7173.0	1.30	0.85	0.75
7361.0	7391.0	0.62	0.96	0.73
7579.0	7609.0	0.41	0.84	0.71
7797.1	7827.1	0.71	0.74	0.78
8036.9	8066.9	1.26	0.81	0.91
8255.0	8285.0	1.16	0.61	0.74
8494.8	8524.8	0.93	0.51	0.73
8712.9	8742.9	1.03	0.56	0.75
8952.7	8982.7	0.73	0.43	0.62
9170.8	9200.8	0.75	0.37	0.50
9410.6	9440.6	0.49	0.31	0.50
9628.7	9658.7	0.64	0.23	0.37
9868.5	9898.5	0.82	0.31	0.44
10086.6	10116.6	0.65	0.26	0.43
10326.4	10356.4	0.55	0.15	0.35
10544.5	10574.5	0.43	0.12	0.21
10784.3	10814.3	0.12	0.09	0.25
11002.4	11032.4	-2.17	0.01	0.08
11242.2	11272.2	-9.17	-0.06	0.04
11460.3	11490.3	-15.25	-0.44	0.01
11700.1	11730.1	-24.56	-2.19	-0.37

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=6850MHz (dB) @LO (dBm) +17
2149.9	4700.1	8.57
2035.0	4815.0	8.73
1920.1	4929.9	8.57
1805.2	5044.8	8.53
1690.3	5159.7	8.29
1575.4	5274.6	7.85
1460.5	5389.5	7.49
1345.6	5504.4	6.90
1230.7	5619.3	6.60
1115.9	5734.1	6.25
1001.0	5849.0	6.10
886.1	5963.9	6.02
771.2	6078.8	5.92
656.3	6193.7	5.81
541.4	6308.6	5.83
440.9	6409.1	5.89
326.0	6524.0	5.86
225.4	6624.6	5.97
110.5	6739.5	6.02
10.0	6840.0	6.48
190.4	7040.4	6.12
370.8	7220.8	6.44
577.0	7427.0	6.79
757.4	7607.4	7.21
963.6	7813.6	7.49
1144.0	7994.0	7.76
1350.2	8200.2	7.46
1530.6	8380.6	7.34
1736.8	8586.8	7.17
1917.2	8767.2	7.12
2123.3	8973.3	7.27
2303.8	9153.8	7.47
2509.9	9359.9	7.86
2690.3	9540.3	7.79
2896.5	9746.5	8.01
3076.9	9926.9	8.39
3283.1	10133.1	8.32
3463.5	10313.5	8.30
3669.7	10519.7	8.78
3850.1	10700.1	9.88

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3690MHz (dB) @LO (dBm) +17
10.1	3700.1	7.63
70.1	3760.1	6.90
130.1	3820.1	6.86
190.1	3880.1	6.54
270.1	3960.1	6.52
330.1	4020.1	6.43
410.1	4100.1	6.37
470.1	4160.1	6.33
550.1	4240.1	6.42
610.1	4300.1	6.58
690.1	4380.1	6.33
750.1	4440.1	6.17
830.1	4520.1	6.14
890.1	4580.1	6.03
970.1	4660.1	6.24
1030.1	4720.1	6.32
1110.1	4800.1	6.46
1170.1	4860.1	6.64
1250.1	4940.1	6.96
1310.1	5000.1	7.08
1390.1	5080.1	7.53
1450.1	5140.1	7.57
1530.1	5220.1	7.84
1590.1	5280.1	8.23
1670.1	5360.1	8.26
1730.1	5420.1	8.47
1810.1	5500.1	8.68
1870.1	5560.1	8.83
1950.1	5640.1	8.91
2010.1	5700.1	9.35
2090.1	5780.1	9.61
2150.1	5840.1	9.63
2230.1	5920.1	9.89
2290.1	5980.1	10.01
2370.1	6060.1	10.25
2430.1	6120.1	10.48
2510.1	6200.1	10.59
2570.1	6260.1	10.83
2650.1	6340.1	10.81
2710.1	6400.1	10.82

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10010.099MHz (dB) @LO (dBm) +17
910.0	9100.1	10.85
890.0	9120.1	10.77
870.0	9140.1	10.79
850.0	9160.1	10.79
830.0	9180.1	10.83
810.0	9200.1	10.67
790.0	9220.1	10.60
770.0	9240.1	10.61
750.0	9260.1	10.49
730.0	9280.1	10.54
710.0	9300.1	10.32
690.0	9320.1	10.30
670.0	9340.1	10.28
650.0	9360.1	10.29
630.0	9380.1	10.37
610.0	9400.1	10.24
590.0	9420.1	10.16
570.0	9440.1	10.15
550.0	9460.1	10.06
530.0	9480.1	10.09
510.0	9500.1	9.93
490.0	9520.1	9.84
470.0	9540.1	9.67
450.0	9560.1	9.76
430.0	9580.1	9.63
410.0	9600.1	9.61
390.0	9620.1	9.57
370.0	9640.1	9.44
330.0	9680.1	9.41
310.0	9700.1	9.44
270.0	9740.1	9.31
250.0	9760.1	9.38
210.0	9800.1	9.27
190.0	9820.1	9.08
150.0	9860.1	9.28
130.0	9880.1	9.22
90.0	9920.1	9.11
70.0	9940.1	9.16
30.0	9980.1	9.27
10.0	10000.1	9.57

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
3030.1	40.41	40.32	40.39	21.19	21.13	21.36
3248.1	39.97	39.78	44.86	19.65	19.83	20.02
3466.2	40.51	44.96	47.08	18.63	18.57	18.79
3684.2	45.93	51.83	56.87	16.96	17.48	18.63
3902.3	55.35	63.54	50.36	16.05	17.16	17.93
4120.3	57.77	49.80	40.33	16.52	17.36	17.35
4338.4	48.90	45.42	42.25	17.07	17.07	17.04
4556.4	52.71	46.26	40.36	16.97	16.52	15.75
4774.5	44.18	41.60	39.25	17.29	15.96	14.78
4992.5	46.36	44.29	41.11	17.21	15.71	14.32
5210.6	38.39	39.24	39.38	16.35	15.47	14.41
5428.6	37.54	38.38	39.13	15.65	15.31	14.75
5646.6	36.92	37.80	38.82	14.91	15.14	15.11
5864.7	38.63	40.45	39.98	14.28	15.15	15.59
6082.7	37.10	40.54	44.12	13.94	15.27	16.13
6300.8	36.91	39.33	41.98	13.77	15.35	16.70
6518.8	38.21	41.13	43.54	13.66	15.48	17.25
6736.9	38.11	40.42	42.53	13.44	15.41	17.40
6954.9	38.03	39.62	40.13	13.44	15.36	17.26
7173.0	38.23	40.83	41.80	13.66	15.13	16.76
7391.0	38.01	41.35	43.13	14.23	15.24	15.80
7609.0	38.36	41.75	39.50	15.89	15.89	14.57
7827.1	39.21	38.10	36.13	19.21	16.13	13.01
8066.9	36.83	35.82	34.96	19.02	14.62	11.82
8285.0	35.02	36.52	36.42	15.40	13.66	11.97
8524.8	32.97	35.79	38.22	13.67	13.25	12.78
8742.9	34.00	37.46	44.36	13.15	13.94	14.54
8982.7	37.74	45.34	42.44	13.47	14.85	15.97
9200.8	42.15	44.06	37.79	14.53	16.47	18.13
9440.6	44.12	42.80	37.31	15.99	18.03	19.57
9658.7	37.63	39.66	36.84	17.16	19.39	20.86
9898.5	35.21	39.82	40.06	18.52	21.00	22.40
10116.6	31.35	34.40	36.81	19.69	21.98	23.74
10356.4	30.69	33.54	35.30	22.40	25.08	27.14
10574.5	31.05	34.37	35.34	24.90	28.19	29.89
10814.3	31.59	34.77	35.91	27.36	30.42	34.28
11032.4	33.51	36.54	37.99	29.50	31.02	34.06
11272.2	35.63	38.24	39.28	30.04	30.87	33.25
11490.3	36.14	37.85	37.42	30.60	31.31	32.59
11730.1	35.18	35.65	36.66	31.24	31.71	31.82

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+14	+17	+20
3000.1	3030.1	16.67	16.68	17.84
3218.1	3248.1	17.65	17.89	21.37
3436.2	3466.2	18.59	20.70	20.21
3654.2	3684.2	21.74	22.54	22.82
3872.3	3902.3	23.59	23.19	22.55
4090.3	4120.3	22.17	21.49	21.15
4308.4	4338.4	20.14	19.46	18.84
4526.4	4556.4	18.88	18.49	18.21
4744.5	4774.5	20.71	20.24	19.86
4962.5	4992.5	24.09	23.16	22.39
5180.6	5210.6	27.09	26.12	25.27
5398.6	5428.6	25.53	25.35	24.92
5616.6	5646.6	24.48	24.53	24.24
5834.7	5864.7	24.05	23.95	23.78
6052.7	6082.7	24.48	24.38	24.21
6270.8	6300.8	25.29	25.18	25.09
6488.8	6518.8	26.44	26.26	26.09
6706.9	6736.9	28.65	28.62	28.45
6924.9	6954.9	31.88	32.22	32.24
7143.0	7173.0	39.23	40.12	40.61
7361.0	7391.0	34.16	32.89	32.09
7579.0	7609.0	26.68	26.18	26.23
7797.1	7827.1	23.25	23.13	22.78
8036.9	8066.9	22.38	22.11	21.94
8255.0	8285.0	24.89	24.02	23.51
8494.8	8524.8	33.45	30.44	28.17
8712.9	8742.9	29.73	30.85	30.10
8952.7	8982.7	19.21	19.22	19.18
9170.8	9200.8	16.85	16.67	16.58
9410.6	9440.6	14.64	14.52	14.50
9628.7	9658.7	13.64	14.00	14.18
9868.5	9898.5	13.31	14.41	15.11
10086.6	10116.6	11.99	12.71	13.23
10326.4	10356.4	13.24	14.28	14.92
10544.5	10574.5	14.72	15.73	16.07
10784.3	10814.3	16.29	17.70	18.34
11002.4	11032.4	17.21	19.05	19.66
11242.2	11272.2	18.40	20.28	21.20
11460.3	11490.3	19.66	21.23	22.09
11700.1	11730.1	20.77	21.66	22.15

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+14	+17	+20
3000.1	3030.1	8.08	7.02	4.30
3218.1	3248.1	9.43	6.66	3.00
3436.2	3466.2	7.80	3.65	2.87
3654.2	3684.2	3.98	3.22	3.00
3872.3	3902.3	3.54	3.22	3.04
4090.3	4120.3	3.50	3.19	2.93
4308.4	4338.4	3.39	3.02	2.71
4526.4	4556.4	2.88	2.64	2.48
4744.5	4774.5	3.08	2.80	2.59
4962.5	4992.5	3.76	3.26	2.91
5180.6	5210.6	4.26	3.76	3.46
5398.6	5428.6	4.64	4.01	3.71
5616.6	5646.6	4.47	3.90	3.49
5834.7	5864.7	4.11	3.70	3.24
6052.7	6082.7	3.62	3.26	2.85
6270.8	6300.8	3.42	3.05	2.74
6488.8	6518.8	3.04	2.72	2.49
6706.9	6736.9	2.87	2.49	2.25
6924.9	6954.9	2.54	2.15	1.93
7143.0	7173.0	2.49	1.91	1.71
7361.0	7391.0	2.50	1.74	1.51
7579.0	7609.0	2.38	1.68	1.52
7797.1	7827.1	2.22	1.69	1.56
8036.9	8066.9	2.12	1.79	1.71
8255.0	8285.0	2.22	1.98	1.97
8494.8	8524.8	2.62	2.35	2.33
8712.9	8742.9	2.81	2.69	2.67
8952.7	8982.7	3.13	2.91	2.80
9170.8	9200.8	3.42	3.11	3.01
9410.6	9440.6	3.88	3.58	3.46
9628.7	9658.7	4.32	3.95	3.86
9868.5	9898.5	3.93	3.73	3.61
10086.6	10116.6	4.24	3.98	3.78
10326.4	10356.4	4.35	4.08	3.95
10544.5	10574.5	4.79	4.41	4.38
10784.3	10814.3	5.74	4.95	4.72
11002.4	11032.4	6.56	4.99	4.69
11242.2	11272.2	8.95	5.89	5.17
11460.3	11490.3	9.18	5.99	5.17
11700.1	11730.1	8.95	6.32	5.46

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+14	+17	+20
3030.1	27.16	24.48	19.98
3248.1	27.59	25.56	19.11
3466.2	24.48	17.22	11.24
3684.2	10.19	7.02	7.25
3902.3	3.82	4.29	5.17
4120.3	2.45	3.22	4.01
4338.4	1.81	2.46	3.18
4556.4	1.49	1.92	2.52
4774.5	1.69	1.66	2.01
4992.5	1.72	1.42	1.62
5210.6	1.56	1.18	1.49
5428.6	1.29	1.23	1.71
5646.6	1.13	1.49	2.06
5864.7	1.36	1.83	2.44
6082.7	1.73	2.18	2.80
6300.8	2.29	2.63	3.24
6518.8	2.92	3.00	3.58
6736.9	3.79	3.33	3.67
6954.9	4.68	3.55	3.56
7173.0	5.83	3.86	3.39
7391.0	6.51	3.96	3.13
7609.0	6.03	3.67	2.84
7827.1	5.52	3.37	2.51
8066.9	4.84	2.95	2.18
8285.0	4.21	2.61	1.92
8524.8	3.88	2.31	1.70
8742.9	3.11	1.92	1.48
8982.7	2.69	1.70	1.40
9200.8	2.57	1.65	1.46
9440.6	2.41	1.67	1.55
9658.7	2.64	1.77	1.61
9898.5	2.60	1.79	1.66
10116.6	2.55	1.84	1.73
10356.4	2.72	2.02	1.91
10574.5	3.12	2.30	2.17
10814.3	4.27	2.95	2.56
11032.4	6.49	4.13	3.33
11272.2	10.02	6.53	4.60
11490.3	12.80	8.90	6.21
11730.1	14.74	12.01	9.48

IF (OUT) (MHz)	IF VSWR @LO=10000MHz (:1) @LO (dBm)		
	+14	+17	+20
10.0	1.61	1.24	1.05
129.7	1.63	1.27	1.13
249.5	1.70	1.34	1.22
369.2	1.88	1.50	1.36
488.9	2.12	1.72	1.56
608.7	2.33	1.89	1.72
728.4	2.55	2.06	1.85
848.1	2.86	2.31	2.06
967.9	3.19	2.56	2.27
1087.6	3.42	2.74	2.41
1207.3	3.68	2.92	2.54
1327.1	3.98	3.13	2.71
1446.8	4.24	3.30	2.83
1566.5	4.41	3.42	2.92
1686.3	4.50	3.48	2.98
1806.0	4.41	3.41	2.92
1925.7	4.47	3.40	2.89
2045.5	4.55	3.44	2.91
2165.2	4.47	3.38	2.86
2284.9	4.28	3.23	2.73
2404.7	4.18	3.17	2.69
2524.4	4.17	3.18	2.73
2644.1	4.05	3.11	2.68
2743.9	3.99	3.08	2.68
2863.6	3.82	3.00	2.64
2963.4	3.77	2.98	2.66
3083.2	3.71	2.99	2.71
3182.9	3.57	2.93	2.69
3302.7	3.44	2.88	2.70
3402.4	3.32	2.86	2.73
3522.2	3.22	2.87	2.82
3622.0	3.15	2.91	2.92
3741.7	3.06	2.96	3.05
3841.5	3.08	3.11	3.27
3961.2	3.09	3.30	3.54
4061.0	3.19	3.56	3.87
4180.7	3.35	3.87	4.27
4280.5	3.54	4.21	4.66
4400.2	3.76	4.55	5.06
4500.0	3.93	4.80	5.30

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+10	30	17	---	---	---	---	---	---	---
1	-	24	+0	46	29	46	---	---	---	---	---	---
2	60	63	41	56	42	70	60	---	---	---	---	---
3	>90	74	62	72	57	77	74	>83	---	---	---	---
4	---	---	>83	>83	80	81	77	>83	>83	---	---	---
5	---	---	---	>83	>83	>83	>83	>83	>83	>83	---	---
6	---	---	---	---	>83	>83	>83	>83	>83	>83	>83	---
7	---	---	---	---	---	>83	>83	>83	>83	>83	>83	>83
8	---	---	---	---	---	---	>83	>83	>83	>83	>83	>83
9	---	---	---	---	---	---	---	>83	>83	>83	>83	>83
10	---	---	---	---	---	---	---	---	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 6850 MHz; -1.00 dBm.
LO IN: 6880 MHz; +17.00 dBm
IF OUT: 30 MHz; -7.44 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+0	43	29	---	---	---	---	---	---	---
1	-	23	+0	48	29	50	---	---	---	---	---	---
2	40	52	32	50	34	60	53	---	---	---	---	---
3	61	53	42	56	38	66	61	72	---	---	---	---
4	---	---	73	85	54	61	53	70	75	---	---	---
5	---	---	---	82	67	72	52	72	68	79	---	---
6	---	---	---	---	>92	88	70	67	66	81	74	---
7	---	---	---	---	---	>92	81	84	66	79	80	81
8	---	---	---	---	---	---	>92	>92	83	75	75	91
9	---	---	---	---	---	---	---	>92	>92	>92	76	85
10	---	---	---	---	---	---	---	---	>92	>92	>92	82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 6850 MHz; 9.00 dBm.
LO IN: 6880 MHz; +17.00 dBm
IF OUT: 30 MHz; 2.46 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.