

Frequency Mixer

HJK-ED10373B

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=60MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
+12	+15	+18	+12	+15	+18	+12	+15	+18						
500.0	560.0	12.51	11.46	10.84	500.0	560.0	17.16	19.65	25.53	500.0	560.0	1.61	1.35	0.77
580.0	640.0	10.68	9.98	9.55	580.0	640.0	16.66	21.76	26.64	580.0	640.0	2.34	1.54	0.64
660.0	720.0	10.20	9.41	8.95	660.0	720.0	16.56	19.01	24.05	660.0	720.0	1.50	1.27	0.78
740.0	800.0	9.55	8.74	8.26	740.0	800.0	17.65	18.79	21.35	740.0	800.0	1.45	1.12	0.80
820.0	880.0	8.79	8.03	7.58	820.0	880.0	19.31	19.73	21.64	820.0	880.0	1.91	1.20	0.77
900.0	960.0	8.14	7.49	7.13	900.0	960.0	18.74	20.55	23.14	900.0	960.0	2.58	1.52	0.83
980.0	1040.0	7.95	7.41	7.14	980.0	1040.0	17.78	19.78	22.32	980.0	1040.0	3.87	2.26	1.11
1060.0	1120.0	8.66	8.34	8.15	1060.0	1120.0	16.38	19.10	21.90	1060.0	1120.0	7.96	4.83	2.04
1140.0	1200.0	7.86	7.34	7.03	1140.0	1200.0	16.82	18.78	21.34	1140.0	1200.0	3.07	2.29	1.46
1220.0	1280.0	7.41	6.94	6.69	1220.0	1280.0	18.50	21.47	24.41	1220.0	1280.0	2.45	1.72	0.94
1300.0	1360.0	7.24	6.84	6.61	1300.0	1360.0	20.45	23.59	25.31	1300.0	1360.0	2.19	1.33	0.60
1380.0	1440.0	8.11	7.84	7.83	1380.0	1440.0	19.20	21.80	26.26	1380.0	1440.0	1.48	1.04	0.61
1460.0	1520.0	7.94	8.48	9.23	1460.0	1520.0	22.68	19.38	28.54	1460.0	1520.0	1.18	-0.09	-0.72
1540.0	1600.0	7.79	7.59	7.56	1540.0	1600.0	20.89	24.85	29.24	1540.0	1600.0	1.13	0.83	0.38
1620.0	1680.0	7.65	7.51	7.51	1620.0	1680.0	23.06	26.29	29.17	1620.0	1680.0	0.82	0.45	0.20
1700.0	1760.0	7.60	7.51	7.52	1700.0	1760.0	24.73	28.67	32.73	1700.0	1760.0	0.60	0.32	0.14
1780.0	1840.0	7.59	7.51	7.52	1780.0	1840.0	26.19	29.69	32.57	1780.0	1840.0	0.45	0.23	0.11
1860.0	1920.0	7.60	7.53	7.54	1860.0	1920.0	26.71	30.69	34.82	1860.0	1920.0	0.33	0.18	0.09
1940.0	2000.0	7.74	7.69	7.71	1940.0	2000.0	26.89	31.24	35.71	1940.0	2000.0	0.33	0.16	0.08
2020.0	2080.0	7.71	7.65	7.66	2020.0	2080.0	26.36	31.49	35.67	2020.0	2080.0	0.45	0.18	0.07
2100.0	2160.0	7.65	7.56	7.56	2100.0	2160.0	24.70	29.84	33.31	2100.0	2160.0	0.63	0.25	0.11
2180.0	2240.0	7.67	7.50	7.45	2180.0	2240.0	21.80	26.70	31.53	2180.0	2240.0	0.92	0.46	0.20
2260.0	2320.0	7.84	7.53	7.40	2260.0	2320.0	20.21	23.84	28.74	2260.0	2320.0	1.12	0.65	0.28
2360.0	2420.0	7.94	7.55	7.35	2360.0	2420.0	19.33	22.50	26.62	2360.0	2420.0	1.24	0.79	0.38
2440.0	2500.0	8.18	7.70	7.44	2440.0	2500.0	18.84	21.85	25.66	2440.0	2500.0	1.38	0.91	0.49
2540.0	2600.0	8.34	7.77	7.49	2540.0	2600.0	18.99	22.17	25.67	2540.0	2600.0	1.51	0.93	0.53
2620.0	2680.0	8.71	8.14	7.84	2620.0	2680.0	19.02	21.85	25.56	2620.0	2680.0	1.59	0.94	0.52
2720.0	2780.0	9.84	9.37	9.09	2720.0	2780.0	19.29	21.88	24.82	2720.0	2780.0	1.73	1.08	0.62
2800.0	2860.0	9.42	8.69	8.20	2800.0	2860.0	18.39	20.07	22.40	2800.0	2860.0	2.02	1.43	0.89
2900.0	2960.0	8.90	8.23	7.82	2900.0	2960.0	19.34	21.05	24.25	2900.0	2960.0	1.79	1.14	0.63
2980.0	3040.0	8.77	8.18	7.88	2980.0	3040.0	21.57	23.62	26.86	2980.0	3040.0	1.64	0.97	0.51
3080.0	3140.0	8.86	8.18	7.87	3080.0	3140.0	19.55	21.94	24.90	3080.0	3140.0	1.53	1.06	0.63
3160.0	3220.0	8.81	8.14	7.83	3160.0	3220.0	18.44	21.04	24.52	3160.0	3220.0	1.38	1.00	0.62
3260.0	3320.0	8.73	8.09	7.78	3260.0	3320.0	18.30	21.11	25.17	3260.0	3320.0	1.20	0.87	0.50
3340.0	3400.0	8.55	8.04	7.77	3340.0	3400.0	18.50	21.47	25.70	3340.0	3400.0	1.11	0.78	0.42
3440.0	3500.0	8.53	8.08	7.83	3440.0	3500.0	19.00	22.31	26.89	3440.0	3500.0	1.04	0.72	0.35
3520.0	3580.0	8.61	8.21	7.99	3520.0	3580.0	19.44	23.09	28.09	3520.0	3580.0	1.02	0.67	0.31
3620.0	3680.0	9.36	8.77	8.41	3620.0	3680.0	18.14	20.76	25.24	3620.0	3680.0	1.13	0.81	0.50
3700.0	3760.0	10.81	10.18	9.69	3700.0	3760.0	19.12	20.33	22.86	3700.0	3760.0	1.75	1.04	0.57
3800.0	3860.0	12.19	11.57	11.35	3800.0	3860.0	18.41	19.63	22.14	3800.0	3860.0	2.47	1.69	1.03

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2350MHz (dB)
		@LO (dBm) +15
800.0	1550.0	10.70
756.1	1593.9	8.35
712.2	1637.8	7.96
668.3	1681.7	7.72
624.4	1725.6	7.45
580.6	1769.4	7.24
536.7	1813.3	7.04
492.8	1857.2	6.95
448.9	1901.1	6.90
405.0	1945.0	6.92
361.1	1988.9	7.00
317.2	2032.8	6.98
273.3	2076.7	7.00
229.4	2120.6	7.03
185.6	2164.4	7.02
141.7	2208.3	7.12
97.8	2252.2	7.24
53.9	2296.1	7.66
10.0	2340.0	14.07
60.7	2410.7	7.60
136.9	2486.9	7.32
213.0	2563.0	7.36
289.1	2639.1	7.65
365.2	2715.2	8.38
415.9	2765.9	9.15
492.0	2842.0	8.65
542.8	2892.8	8.84
618.9	2968.9	8.88
669.6	3019.6	8.87
745.7	3095.7	8.95
796.5	3146.5	8.98
872.6	3222.6	8.95
923.3	3273.3	9.02
999.4	3349.4	8.95
1050.2	3400.2	8.79
1126.3	3476.3	8.70
1177.0	3527.0	8.75
1253.1	3603.1	8.82
1303.9	3653.9	9.03
1380.0	3730.0	10.38

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1200MHz (dB)
		@LO (dBm) +15
10.0	1210.0	15.85
50.0	1250.0	7.42
90.0	1290.0	6.51
130.0	1330.0	6.29
170.0	1370.0	6.26
210.0	1410.0	7.70
250.0	1450.0	7.60
290.0	1490.0	7.50
330.0	1530.0	8.75
370.0	1570.0	8.10
410.0	1610.0	7.68
450.0	1650.0	7.73
490.0	1690.0	7.80
530.0	1730.0	7.88
570.0	1770.0	7.91
610.0	1810.0	8.01
650.0	1850.0	8.03
690.0	1890.0	8.09
730.0	1930.0	8.15
770.0	1970.0	8.31
810.0	2010.0	8.39
850.0	2050.0	8.53
890.0	2090.0	8.58
930.0	2130.0	8.70
970.0	2170.0	8.75
1010.0	2210.0	8.79
1050.0	2250.0	8.87
1090.0	2290.0	8.85
1130.0	2330.0	8.83
1170.0	2370.0	8.92
1210.0	2410.0	9.13
1250.0	2450.0	9.16
1290.0	2490.0	9.20
1330.0	2530.0	9.22
1370.0	2570.0	9.30
1410.0	2610.0	9.35
1450.0	2650.0	9.48
1470.0	2670.0	9.59
1510.0	2710.0	9.86
1530.0	2730.0	10.21

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3500MHz (dB)
		@LO (dBm) +15
710.0	2790.0	10.69
690.0	2810.0	10.61
670.0	2830.0	10.41
650.0	2850.0	10.09
630.0	2870.0	9.86
610.0	2890.0	9.58
590.0	2910.0	9.28
570.0	2930.0	9.09
550.0	2950.0	8.96
530.0	2970.0	8.97
510.0	2990.0	8.86
490.0	3010.0	8.69
470.0	3030.0	8.63
450.0	3050.0	8.61
430.0	3070.0	8.58
410.0	3090.0	8.45
390.0	3110.0	8.36
370.0	3130.0	8.31
350.0	3150.0	8.30
330.0	3170.0	8.28
310.0	3190.0	8.14
290.0	3210.0	8.04
270.0	3230.0	7.96
250.0	3250.0	8.01
230.0	3270.0	7.93
220.0	3280.0	7.90
200.0	3300.0	7.83
190.0	3310.0	7.77
170.0	3330.0	7.78
160.0	3340.0	7.78
140.0	3360.0	7.79
130.0	3370.0	7.80
110.0	3390.0	7.77
100.0	3400.0	7.78
80.0	3420.0	7.92
70.0	3430.0	8.01
50.0	3450.0	8.35
40.0	3460.0	8.77
20.0	3480.0	11.00
10.0	3490.0	15.14

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+12	+15	+18	+12	+15	+18
560.0	44.14	44.29	44.59	32.80	33.10	33.38
640.0	44.74	45.28	45.76	36.58	36.80	36.99
720.0	43.55	44.24	44.84	36.98	37.30	37.55
800.0	42.13	42.93	43.68	36.47	36.84	37.10
880.0	41.24	42.02	42.60	35.51	35.96	36.25
960.0	41.89	42.62	43.30	34.71	35.23	35.58
1040.0	42.15	42.18	42.22	34.43	35.03	35.55
1120.0	34.59	34.93	35.38	35.80	36.36	36.70
1200.0	34.28	34.87	35.37	32.51	33.01	33.43
1280.0	34.44	34.90	35.32	31.15	31.78	32.24
1360.0	33.00	33.01	32.93	29.54	30.08	30.45
1440.0	38.38	39.46	40.00	28.88	29.14	29.26
1520.0	34.34	33.62	33.04	28.48	28.91	29.06
1600.0	32.45	32.45	32.36	27.69	28.12	28.36
1680.0	30.18	29.73	29.38	26.77	27.26	27.61
1760.0	27.90	27.10	26.37	25.60	26.00	26.31
1840.0	28.53	28.14	27.81	25.49	25.68	25.87
1920.0	31.01	31.17	31.25	27.88	27.82	27.72
2000.0	30.57	30.85	31.11	30.14	29.92	29.73
2080.0	32.69	33.18	33.50	32.36	32.25	32.05
2160.0	33.85	34.59	35.24	36.72	36.89	37.06
2240.0	34.67	35.50	36.37	42.11	43.51	44.73
2320.0	35.11	36.04	36.81	43.22	46.09	49.36
2420.0	35.38	36.53	37.32	37.93	38.94	39.44
2500.0	35.84	37.01	37.86	34.35	34.99	35.30
2600.0	37.03	37.96	39.00	30.61	30.91	31.27
2680.0	36.96	37.41	38.23	26.88	27.01	27.44
2780.0	27.49	28.01	28.50	23.42	23.94	24.15
2860.0	25.68	26.71	27.54	28.33	28.98	29.14
2960.0	25.98	26.89	27.62	34.77	35.21	35.29
3040.0	26.37	27.05	27.84	42.54	43.51	44.83
3140.0	25.89	26.26	26.92	47.77	47.89	47.13
3220.0	25.49	25.85	26.35	44.90	45.18	45.37
3320.0	24.38	24.82	25.06	38.75	38.97	39.37
3400.0	23.38	23.77	23.96	32.93	32.99	33.13
3500.0	21.94	22.27	22.43	26.95	27.05	27.15
3580.0	20.87	21.19	21.31	23.29	23.57	23.74
3680.0	20.79	20.95	20.90	19.08	19.37	19.50
3760.0	22.03	22.13	21.80	17.03	17.38	17.50
3860.0	23.57	23.55	23.11	15.78	16.01	16.03

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+12	+15	+18
500.0	560.0	39.36	44.63	39.92
580.0	640.0	40.84	40.17	38.38
660.0	720.0	39.49	38.85	37.35
740.0	800.0	39.31	37.00	35.41
820.0	880.0	36.40	34.25	33.04
900.0	960.0	28.51	29.41	30.24
980.0	1040.0	20.08	19.62	19.49
1060.0	1120.0	22.67	22.11	21.53
1140.0	1200.0	26.14	25.18	25.42
1220.0	1280.0	25.50	26.04	27.19
1300.0	1360.0	23.97	24.20	24.92
1380.0	1440.0	29.76	37.48	42.70
1460.0	1520.0	32.36	28.88	27.32
1540.0	1600.0	37.05	50.90	44.67
1620.0	1680.0	38.03	44.86	43.08
1700.0	1760.0	35.92	42.86	48.90
1780.0	1840.0	36.48	42.05	52.19
1860.0	1920.0	40.99	42.74	42.26
1940.0	2000.0	36.67	37.45	38.15
2020.0	2080.0	35.99	36.05	35.93
2100.0	2160.0	39.60	39.31	39.06
2180.0	2240.0	42.65	41.03	40.08
2260.0	2320.0	43.60	42.14	40.69
2360.0	2420.0	36.42	36.46	36.59
2440.0	2500.0	32.11	32.35	32.86
2540.0	2600.0	27.07	27.63	28.47
2620.0	2680.0	22.65	22.73	23.23
2720.0	2780.0	21.68	21.13	20.60
2800.0	2860.0	35.06	33.26	31.26
2900.0	2960.0	35.37	37.27	39.20
2980.0	3040.0	36.70	38.11	39.22
3080.0	3140.0	45.58	58.26	52.73
3160.0	3220.0	48.93	42.14	38.82
3260.0	3320.0	36.94	34.69	32.83
3340.0	3400.0	34.19	33.13	31.99
3440.0	3500.0	30.77	30.56	30.16
3520.0	3580.0	28.64	28.79	28.64
3620.0	3680.0	24.40	24.85	25.20
3700.0	3760.0	21.25	21.22	21.38
3800.0	3860.0	24.57	23.82	23.15

Frequency Mixer

HJK-ED10373B

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+12	+15	+18
500.0	560.0	6.09	5.66	5.41
580.0	640.0	5.30	4.80	4.54
660.0	720.0	4.37	3.94	3.74
740.0	800.0	3.40	3.10	2.99
820.0	880.0	2.49	2.35	2.35
900.0	960.0	1.84	1.80	1.90
980.0	1040.0	1.42	1.52	1.71
1060.0	1120.0	1.42	1.73	1.99
1140.0	1200.0	1.28	1.52	1.73
1220.0	1280.0	1.40	1.58	1.77
1300.0	1360.0	1.61	1.72	1.85
1380.0	1440.0	1.80	2.01	2.24
1460.0	1520.0	1.93	1.96	2.00
1540.0	1600.0	2.05	2.15	2.28
1620.0	1680.0	2.13	2.20	2.30
1700.0	1760.0	2.15	2.20	2.28
1780.0	1840.0	2.16	2.20	2.27
1860.0	1920.0	2.13	2.16	2.21
1940.0	2000.0	2.06	2.08	2.12
2020.0	2080.0	2.00	2.00	2.02
2100.0	2160.0	1.95	1.93	1.94
2180.0	2240.0	1.94	1.85	1.83
2260.0	2320.0	1.99	1.85	1.79
2360.0	2420.0	2.03	1.86	1.77
2440.0	2500.0	2.09	1.89	1.78
2540.0	2600.0	2.12	1.88	1.76
2620.0	2680.0	2.11	1.87	1.76
2720.0	2780.0	1.82	1.68	1.63
2800.0	2860.0	1.97	1.79	1.68
2900.0	2960.0	2.10	1.88	1.74
2980.0	3040.0	2.06	1.85	1.74
3080.0	3140.0	2.01	1.80	1.71
3160.0	3220.0	2.01	1.82	1.74
3260.0	3320.0	2.01	1.88	1.82
3340.0	3400.0	2.06	1.96	1.92
3440.0	3500.0	2.18	2.12	2.10
3520.0	3580.0	2.36	2.32	2.32
3620.0	3680.0	2.65	2.57	2.55
3700.0	3760.0	2.95	2.81	2.73
3800.0	3860.0	2.95	2.85	2.82

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+12	+15	+18
560.0	21.73	22.29	22.29
640.0	49.64	48.26	46.96
720.0	52.65	51.10	48.26
800.0	45.72	44.55	43.44
880.0	48.26	46.96	44.55
960.0	44.55	43.44	41.37
1040.0	36.20	34.75	32.79
1120.0	31.03	30.49	29.46
1200.0	30.49	29.96	28.49
1280.0	28.03	27.59	26.74
1360.0	22.87	22.00	21.20
1440.0	22.00	21.73	20.95
1520.0	18.11	15.96	14.03
1600.0	14.26	13.92	13.39
1680.0	9.85	9.48	9.08
1760.0	6.44	6.09	5.81
1840.0	4.69	4.52	4.38
1920.0	4.08	4.03	4.01
2000.0	4.45	4.50	4.54
2080.0	6.11	6.21	6.32
2160.0	8.23	8.35	8.43
2240.0	10.43	10.43	10.31
2320.0	12.52	12.35	11.93
2420.0	14.38	14.03	13.49
2500.0	14.87	14.38	13.60
2600.0	14.62	14.03	13.09
2680.0	12.99	12.52	11.85
2780.0	8.81	8.60	8.27
2860.0	11.03	10.89	10.56
2960.0	12.01	11.53	10.89
3040.0	11.77	11.38	10.82
3140.0	10.82	10.50	10.02
3220.0	10.07	9.79	9.53
3320.0	8.51	8.27	8.08
3400.0	6.78	6.63	6.53
3500.0	4.61	4.52	4.52
3580.0	3.16	3.13	3.16
3680.0	2.31	2.34	2.39
3760.0	2.27	2.31	2.35
3860.0	1.93	1.91	1.90

IF (OUT) (MHz)	IF VSWR @LO=3560MHz (:1)		
	@LO (dBm)		
	+12	+15	+18
10.0	11.53	10.82	10.25
110.0	1.18	1.29	1.46
210.0	1.30	1.37	1.51
310.0	1.67	1.67	1.73
390.0	1.97	1.91	1.93
490.0	2.29	2.16	2.12
570.0	2.45	2.28	2.20
670.0	2.57	2.36	2.23
750.0	2.64	2.39	2.23
850.0	2.57	2.29	2.10
930.0	2.48	2.20	2.00
1030.0	2.31	2.04	1.84
1110.0	2.26	1.98	1.78
1210.0	1.96	1.72	1.54
1290.0	1.80	1.58	1.42
1390.0	1.60	1.41	1.26
1470.0	1.45	1.28	1.15
1570.0	1.29	1.14	1.04
1650.0	1.19	1.08	1.06
1750.0	1.16	1.11	1.16
1830.0	1.19	1.18	1.23
1930.0	1.31	1.30	1.33
2010.0	1.42	1.40	1.41
2110.0	1.59	1.56	1.57
2190.0	1.76	1.73	1.73
2290.0	1.93	1.92	1.92
2370.0	2.06	2.06	2.06
2470.0	2.19	2.18	2.20
2550.0	2.29	2.28	2.28
2650.0	2.42	2.42	2.43
2730.0	2.35	2.35	2.36
2830.0	2.30	2.32	2.34
2910.0	2.48	2.49	2.51
3010.0	2.56	2.56	2.57
3090.0	2.56	2.56	2.56
3190.0	2.47	2.45	2.45
3270.0	2.37	2.33	2.32
3370.0	2.20	2.14	2.10
3450.0	2.04	1.96	1.89
3550.0	1.88	1.77	1.68

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	21	31	34	51	39	52	61	64	---
1	-	29	+0	39	19	47	38	47	50	62	78	81
2	63	46	54	58	48	62	62	58	58	58	72	77
3	98	74	54	76	48	75	57	82	75	78	76	>91
4	>100	>91	85	>91	>91	84	79	88	>91	85	82	86
5	>100	>91	>91	>91	87	>91	78	>91	86	>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: 2350 MHz; -1.00 dBm.
LO IN: 2410 MHz; +15.00 dBm
IF OUT: 60 MHz; -9.1 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	33	37	42	48	53	70	71	81	---
1	-	29	+0	39	21	49	39	45	56	71	86	91
2	43	36	42	52	44	59	61	54	60	57	79	93
3	68	56	34	60	32	58	43	69	61	67	72	87
4	95	81	59	60	61	62	54	66	68	68	69	71
5	>100	79	75	77	52	78	46	73	56	80	76	82
6	>100	72	82	79	72	79	74	70	65	77	78	75
7	>100	91	89	82	84	86	65	86	57	98	66	101
8	>100	98	>101	85	86	87	82	96	80	79	74	88
9	>100	>101	>101	99	92	89	91	85	75	84	66	85
10	>100	>101	>101	>101	>101	92	92	93	93	92	84	82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2350 MHz; 9.00 dBm.
LO IN: 2410 MHz; +15.00 dBm
IF OUT: 60 MHz; 0.91 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.