

Frequency Mixer

HJK-ED11615A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)		
		@LO (dBm)		
		+7	+10	+13
60.1	130.1	14.70	11.02	8.42
120.1	190.1	11.27	8.59	7.09
180.1	250.1	8.33	6.98	6.44
240.1	310.1	6.86	6.30	6.03
300.1	370.1	6.50	6.22	6.06
360.1	430.1	9.76	9.81	9.91
420.1	490.1	7.73	7.62	7.55
480.1	550.1	7.52	7.42	7.35
540.1	610.1	7.52	7.39	7.31
600.1	670.1	7.49	7.32	7.22
660.1	730.1	7.63	7.43	7.30
720.1	790.1	7.94	7.72	7.59
780.1	850.1	8.21	7.99	7.87
840.1	910.1	8.47	8.17	7.99
900.1	970.1	8.53	8.20	7.99
960.1	1030.1	8.71	8.35	8.11
1020.1	1090.1	8.91	8.50	8.24
1080.1	1150.1	9.11	8.66	8.39
1140.1	1210.1	9.30	8.82	8.51
1200.1	1270.1	9.46	8.91	8.60
1260.1	1330.1	9.48	8.90	8.57
1320.1	1390.1	9.53	8.88	8.51
1380.1	1450.1	9.64	9.00	8.60
1440.1	1510.1	9.88	9.29	8.95
1500.1	1570.1	9.77	9.18	8.83
1560.1	1630.1	9.55	9.01	8.67
1620.1	1690.1	9.59	8.95	8.60
1680.1	1750.1	9.63	9.05	8.69
1740.1	1810.1	9.56	9.05	8.74
1800.1	1870.1	9.57	9.04	8.72
1860.1	1930.1	9.45	8.94	8.64
1920.1	1990.1	9.38	8.88	8.59
1980.1	2050.1	9.59	9.07	8.79
2035.1	2105.1	9.46	9.02	8.76
2095.1	2165.1	9.58	9.12	8.87
2150.1	2220.1	9.80	9.36	9.12
2210.1	2280.1	9.79	9.39	9.18
2265.1	2335.1	10.22	9.79	9.55
2325.1	2395.1	10.36	9.97	9.76
2380.1	2450.1	10.50	10.11	9.93

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+7	+10	+13
60.1	130.1	5.25	4.92	5.64
120.1	190.1	4.92	5.66	8.34
180.1	250.1	6.20	9.60	13.75
240.1	310.1	9.74	13.93	16.30
300.1	370.1	11.94	16.09	19.41
360.1	430.1	13.70	16.52	21.11
420.1	490.1	18.59	21.17	24.23
480.1	550.1	19.67	22.04	23.83
540.1	610.1	19.71	22.11	25.52
600.1	670.1	19.43	22.24	25.06
660.1	730.1	18.16	20.98	23.43
720.1	790.1	17.13	19.86	22.27
780.1	850.1	15.60	17.52	19.01
840.1	910.1	14.20	17.60	20.52
900.1	970.1	14.78	18.25	20.84
960.1	1030.1	14.54	17.42	20.07
1020.1	1090.1	13.85	16.60	19.13
1080.1	1150.1	13.64	16.42	18.56
1140.1	1210.1	13.31	15.90	18.03
1200.1	1270.1	12.79	15.43	17.66
1260.1	1330.1	12.57	15.28	17.37
1320.1	1390.1	12.00	14.69	16.77
1380.1	1450.1	12.04	14.55	16.64
1440.1	1510.1	12.58	15.50	17.73
1500.1	1570.1	12.25	15.36	17.98
1560.1	1630.1	12.48	15.51	18.12
1620.1	1690.1	12.07	15.22	17.82
1680.1	1750.1	12.63	15.43	17.96
1740.1	1810.1	13.50	16.63	19.51
1800.1	1870.1	13.33	16.57	19.35
1860.1	1930.1	13.67	16.83	19.91
1920.1	1990.1	14.05	17.12	20.41
1980.1	2050.1	14.05	17.35	20.49
2035.1	2105.1	14.77	18.02	21.03
2095.1	2165.1	14.71	17.85	21.23
2150.1	2220.1	14.92	18.02	21.18
2210.1	2280.1	15.58	18.61	21.94
2265.1	2335.1	15.66	18.73	21.79
2325.1	2395.1	16.45	19.64	23.00
2380.1	2450.1	16.85	20.31	23.09

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+6dBm (dB)		
		@LO (dBm)		
		+7	+10	+13
60.1	130.1	4.28	4.76	4.56
120.1	190.1	4.84	4.65	3.46
180.1	250.1	4.40	3.12	1.50
240.1	310.1	3.10	1.46	0.46
300.1	370.1	2.11	0.74	0.21
360.1	430.1	0.84	0.47	0.20
420.1	490.1	0.33	0.18	0.09
480.1	550.1	0.23	0.13	0.07
540.1	610.1	0.26	0.14	0.07
600.1	670.1	0.33	0.16	0.08
660.1	730.1	0.42	0.20	0.11
720.1	790.1	0.54	0.26	0.13
780.1	850.1	0.84	0.37	0.20
840.1	910.1	1.86	0.69	0.29
900.1	970.1	1.24	0.49	0.22
960.1	1030.1	1.22	0.49	0.22
1020.1	1090.1	1.34	0.54	0.25
1080.1	1150.1	1.43	0.58	0.28
1140.1	1210.1	1.53	0.65	0.31
1200.1	1270.1	1.59	0.65	0.31
1260.1	1330.1	1.63	0.66	0.32
1320.1	1390.1	1.88	0.84	0.38
1380.1	1450.1	1.79	0.83	0.39
1440.1	1510.1	1.67	0.72	0.36
1500.1	1570.1	1.89	0.85	0.39
1560.1	1630.1	1.78	0.80	0.36
1620.1	1690.1	1.93	0.85	0.40
1680.1	1750.1	1.74	0.79	0.39
1740.1	1810.1	1.46	0.63	0.30
1800.1	1870.1	1.47	0.63	0.30
1860.1	1930.1	1.33	0.58	0.27
1920.1	1990.1	1.23	0.53	0.26
1980.1	2050.1	1.25	0.53	0.25
2035.1	2105.1	1.02	0.46	0.22
2095.1	2165.1	1.02	0.46	0.21
2150.1	2220.1	0.94	0.42	0.20
2210.1	2280.1	0.81	0.38	0.18
2265.1	2335.1	0.83	0.40	0.19
2325.1	2395.1	0.69	0.32	0.15
2380.1	2450.1	0.64	0.28	0.14

REV. X2

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Frequency Mixer

HJK-ED11615A/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=621.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=591.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=631.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
200.0	421.1	10.30	10.0	601.1	7.61	210.0	421.1	10.43
192.1	429.0	10.06	50.0	641.1	7.26	205.0	426.1	10.83
184.2	436.9	8.82	90.0	681.1	7.37	200.0	431.1	9.50
172.3	448.8	8.27	130.0	721.1	7.30	195.0	436.1	9.03
164.4	456.7	7.95	170.0	761.1	7.52	190.0	441.1	8.59
152.5	468.6	7.70	210.0	801.1	7.86	185.0	446.1	8.39
144.6	476.5	7.72	250.0	841.1	7.96	180.0	451.1	8.30
132.7	488.4	7.54	290.0	881.1	7.99	175.0	456.1	8.02
124.8	496.3	7.52	330.0	921.1	7.96	170.0	461.1	7.88
112.9	508.2	7.38	370.0	961.1	7.94	165.0	466.1	7.88
105.0	516.1	7.46	410.0	1001.1	7.97	160.0	471.1	7.73
93.1	528.0	7.46	450.0	1041.1	7.90	155.0	476.1	7.63
85.2	535.9	7.30	490.0	1081.1	7.89	150.0	481.1	7.65
73.3	547.8	7.32	530.0	1121.1	7.95	145.0	486.1	7.66
65.4	555.7	7.24	570.0	1161.1	7.85	140.0	491.1	7.54
53.5	567.6	7.30	610.0	1201.1	7.88	135.0	496.1	7.54
45.6	575.5	7.29	650.0	1241.1	7.79	130.0	501.1	7.56
33.8	587.4	7.19	690.0	1281.1	7.83	125.0	506.1	7.40
25.8	595.3	7.29	730.0	1321.1	7.82	120.0	511.1	7.35
14.0	607.1	7.33	790.0	1381.1	7.91	115.0	516.1	7.48
10.0	631.1	7.64	830.0	1421.1	7.95	110.0	521.1	7.44
119.4	740.5	7.35	890.0	1481.1	8.21	105.0	526.1	7.38
192.3	813.4	7.90	930.0	1521.1	8.35	100.0	531.1	7.45
301.7	922.8	7.96	990.0	1581.1	8.43	95.0	536.1	7.40
374.6	995.7	7.99	1030.0	1621.1	8.30	90.0	541.1	7.33
484.0	1105.1	7.95	1090.0	1681.1	8.36	85.0	546.1	7.30
556.9	1178.0	7.92	1130.0	1721.1	8.40	80.0	551.1	7.39
666.3	1287.4	7.90	1190.0	1781.1	8.66	75.0	556.1	7.29
739.2	1360.3	7.93	1230.0	1821.1	8.63	70.0	561.1	7.25
848.5	1469.6	8.24	1290.0	1881.1	8.68	65.0	566.1	7.36
921.5	1542.6	8.45	1330.0	1921.1	8.71	60.0	571.1	7.36
1030.8	1651.9	8.35	1390.0	1981.1	8.86	55.0	576.1	7.21
1103.8	1724.9	8.38	1430.0	2021.1	8.96	50.0	581.1	7.33
1213.1	1834.2	8.67	1490.0	2081.1	9.25	45.0	586.1	7.37
1286.0	1907.1	8.67	1530.0	2121.1	9.46	40.0	591.1	7.24
1395.4	2016.5	8.94	1590.0	2181.1	9.79	35.0	596.1	7.22
1468.3	2089.4	9.25	1630.0	2221.1	10.00	30.0	601.1	7.30
1577.7	2198.8	9.77	1690.0	2281.1	10.31	25.0	606.1	7.31
1650.6	2271.7	10.17	1730.0	2321.1	10.56	15.0	616.1	7.32
1760.0	2381.1	10.80	1790.0	2381.1	10.84	10.0	621.1	7.62

Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
130.1	54.37	54.83	55.12	43.74	43.78	43.69
190.1	52.63	52.98	52.94	40.90	40.84	40.80
250.1	51.08	51.02	51.03	38.82	38.73	38.63
310.1	49.64	49.69	49.65	37.21	37.08	37.02
370.1	46.54	45.76	45.43	35.69	35.46	35.35
430.1	48.87	48.14	47.54	37.03	36.77	36.49
490.1	45.68	44.92	44.62	40.19	39.81	39.40
550.1	45.78	45.08	44.56	45.30	45.23	45.13
610.1	48.22	47.14	46.38	41.49	41.92	42.40
670.1	50.30	48.91	47.90	37.43	37.69	38.01
730.1	51.72	50.83	49.84	35.91	36.16	36.50
790.1	50.53	49.64	48.55	33.60	33.73	34.00
850.1	51.97	47.84	45.41	32.70	32.81	33.04
910.1	47.76	46.22	45.31	31.98	32.00	32.19
970.1	46.36	45.25	44.65	31.27	31.16	31.28
1030.1	45.69	44.82	44.08	30.84	30.79	30.73
1090.1	43.81	42.98	42.28	30.70	30.59	30.52
1150.1	41.15	40.42	39.95	30.48	30.29	30.28
1210.1	39.12	38.70	38.39	30.38	30.16	30.01
1270.1	40.83	40.16	39.65	30.20	29.78	29.67
1330.1	41.18	40.42	40.03	29.75	29.31	29.14
1390.1	40.41	39.77	39.32	29.24	28.77	28.55
1450.1	39.66	39.36	38.85	29.05	28.66	28.26
1510.1	38.20	38.33	38.28	29.83	29.60	29.53
1570.1	39.05	39.63	40.05	30.64	30.54	30.37
1630.1	40.42	40.81	41.11	30.11	29.97	29.81
1690.1	39.66	39.55	39.50	29.62	29.29	29.11
1750.1	38.29	38.13	38.03	29.15	28.93	28.74
1810.1	38.07	37.94	37.84	28.80	28.55	28.36
1870.1	38.17	38.12	37.95	28.58	28.36	28.08
1930.1	38.30	38.25	38.11	28.53	28.28	28.00
1990.1	38.84	38.72	38.64	28.73	28.42	28.16
2050.1	39.68	39.51	39.43	29.08	28.68	28.42
2105.1	40.73	40.76	40.64	29.42	29.20	28.90
2165.1	41.12	40.96	40.76	30.38	30.03	29.70
2220.1	38.87	38.42	37.93	31.48	31.10	30.72
2280.1	35.28	34.71	34.12	33.40	32.89	32.51
2335.1	32.92	32.29	31.68	36.28	35.74	35.31
2395.1	31.22	30.69	30.13	40.72	39.99	39.47
2450.1	31.07	30.50	30.19	44.60	44.32	44.46

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
60.1	130.1	20.91	20.80	23.13
120.1	190.1	21.05	22.94	26.17
180.1	250.1	23.84	26.91	28.30
240.1	310.1	25.40	28.48	31.10
300.1	370.1	27.12	28.96	30.32
360.1	430.1	31.38	31.03	30.26
420.1	490.1	34.82	36.52	37.92
480.1	550.1	33.20	34.58	35.66
540.1	610.1	31.59	32.91	34.01
600.1	670.1	30.44	31.75	33.03
660.1	730.1	29.35	30.88	31.95
720.1	790.1	28.22	29.29	29.82
780.1	850.1	27.39	27.92	28.15
840.1	910.1	28.99	30.20	30.95
900.1	970.1	28.37	29.96	30.98
960.1	1030.1	27.75	29.59	31.01
1020.1	1090.1	27.15	28.88	30.11
1080.1	1150.1	27.28	29.16	30.51
1140.1	1210.1	26.96	28.67	29.94
1200.1	1270.1	27.34	29.45	30.90
1260.1	1330.1	27.63	29.76	30.90
1320.1	1390.1	27.80	30.21	31.46
1380.1	1450.1	28.19	30.95	32.52
1440.1	1510.1	28.30	30.22	31.27
1500.1	1570.1	31.54	33.58	35.08
1560.1	1630.1	33.20	35.06	36.28
1620.1	1690.1	33.55	36.40	38.31
1680.1	1750.1	35.72	40.16	43.93
1740.1	1810.1	39.75	51.46	51.42
1800.1	1870.1	39.27	48.83	50.36
1860.1	1930.1	38.83	45.33	47.43
1920.1	1990.1	37.57	41.38	43.01
1980.1	2050.1	35.95	38.92	40.39
2035.1	2105.1	35.52	37.62	38.66
2095.1	2165.1	34.28	35.87	36.65
2150.1	2220.1	33.71	35.03	35.66
2210.1	2280.1	33.89	35.16	35.80
2265.1	2335.1	33.47	35.16	35.97
2325.1	2395.1	32.78	34.42	35.38
2380.1	2450.1	31.90	33.39	34.39

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=681MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
60.1	130.1	3.05	2.39	1.87	130.1	32.18	32.18	32.18	10.0	1.95	1.99	2.04
120.1	190.1	2.34	1.86	1.60	190.1	108.58	108.58	108.58	30.0	1.96	1.99	2.04
180.1	250.1	1.83	1.64	1.58	250.1	144.77	144.77	144.77	50.0	1.96	2.00	2.04
240.1	310.1	1.70	1.65	1.64	310.1	52.65	54.29	52.65	70.0	1.96	1.99	2.04
300.1	370.1	1.74	1.75	1.75	370.1	19.98	20.22	20.22	90.0	1.97	2.01	2.05
360.1	430.1	2.35	2.40	2.44	430.1	8.31	8.31	8.27	110.0	1.95	1.99	2.03
420.1	490.1	2.25	2.30	2.35	490.1	4.34	4.39	4.41	130.0	1.96	1.99	2.04
480.1	550.1	2.17	2.21	2.25	550.1	1.92	1.94	1.94	150.0	1.95	1.98	2.03
540.1	610.1	2.13	2.16	2.18	610.1	1.28	1.28	1.28	170.0	1.97	2.01	2.05
600.1	670.1	2.11	2.13	2.14	670.1	1.87	1.86	1.85	190.0	1.97	2.01	2.05
660.1	730.1	2.13	2.14	2.15	730.1	2.58	2.56	2.55	210.0	1.96	2.00	2.04
720.1	790.1	2.18	2.19	2.19	790.1	3.23	3.20	3.18	230.0	1.97	2.01	2.05
780.1	850.1	2.25	2.26	2.27	850.1	3.89	3.85	3.82	250.0	1.98	2.02	2.06
840.1	910.1	2.37	2.39	2.40	910.1	4.50	4.46	4.43	270.0	2.00	2.04	2.08
900.1	970.1	2.42	2.47	2.48	970.1	5.00	4.96	4.92	290.0	1.97	2.01	2.04
960.1	1030.1	2.42	2.47	2.49	1030.1	5.49	5.46	5.42	310.0	1.99	2.02	2.06
1020.1	1090.1	2.41	2.48	2.51	1090.1	5.87	5.85	5.79	330.0	1.99	2.03	2.06
1080.1	1150.1	2.34	2.42	2.45	1150.1	6.24	6.19	6.15	340.0	1.97	2.01	2.05
1140.1	1210.1	2.25	2.33	2.37	1210.1	6.49	6.46	6.44	360.0	1.99	2.03	2.06
1200.1	1270.1	2.15	2.23	2.27	1270.1	6.76	6.73	6.68	370.0	1.99	2.03	2.06
1260.1	1330.1	2.06	2.14	2.18	1330.1	7.11	7.05	7.02	390.0	1.98	2.02	2.05
1320.1	1390.1	1.94	2.03	2.07	1390.1	7.25	7.22	7.17	400.0	1.99	2.02	2.06
1380.1	1450.1	1.81	1.90	1.94	1450.1	7.31	7.22	7.14	420.0	1.98	2.02	2.05
1440.1	1510.1	1.63	1.69	1.71	1510.1	7.34	7.25	7.17	430.0	1.98	2.01	2.05
1500.1	1570.1	1.52	1.57	1.58	1570.1	7.41	7.31	7.22	450.0	1.97	2.00	2.04
1560.1	1630.1	1.48	1.53	1.54	1630.1	7.56	7.50	7.47	460.0	1.97	2.00	2.03
1620.1	1690.1	1.37	1.42	1.44	1690.1	7.73	7.70	7.63	480.0	1.95	1.98	2.02
1680.1	1750.1	1.28	1.32	1.35	1750.1	7.66	7.60	7.53	490.0	1.95	1.98	2.01
1740.1	1810.1	1.26	1.30	1.33	1810.1	7.87	7.87	7.83	510.0	1.96	1.99	2.02
1800.1	1870.1	1.27	1.30	1.33	1870.1	7.90	7.94	7.90	520.0	1.94	1.97	2.00
1860.1	1930.1	1.31	1.34	1.38	1930.1	7.87	7.90	7.87	540.0	1.96	1.99	2.01
1920.1	1990.1	1.39	1.42	1.46	1990.1	7.73	7.76	7.80	550.0	1.94	1.97	2.00
1980.1	2050.1	1.46	1.49	1.53	2050.1	7.44	7.50	7.50	570.0	1.92	1.95	1.98
2035.1	2105.1	1.55	1.58	1.63	2105.1	7.05	7.14	7.17	580.0	1.92	1.95	1.98
2095.1	2165.1	1.65	1.68	1.73	2165.1	6.51	6.61	6.63	600.0	1.91	1.94	1.96
2150.1	2220.1	1.73	1.76	1.81	2220.1	5.89	5.97	5.99	610.0	1.92	1.95	1.97
2210.1	2280.1	1.84	1.88	1.93	2280.1	5.25	5.31	5.34	630.0	1.91	1.93	1.96
2265.1	2335.1	1.89	1.92	1.97	2335.1	4.60	4.66	4.68	640.0	1.91	1.93	1.96
2325.1	2395.1	1.98	2.01	2.06	2395.1	4.01	4.09	4.11	660.0	1.87	1.90	1.92
2380.1	2450.1	2.04	2.08	2.12	2450.1	3.52	3.60	3.63	670.0	1.94	1.96	1.99

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	24	35	30	29	44	30	44	51	36
1	-	24	+0	34	15	39	48	41	33	46	37	47
2	79	72	61	57	57	59	60	72	67	>74	69	71
3	>90	>74	67	>74	67	>74	67	>74	>74	>74	>74	>74
4	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
5	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
6	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
7	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
8	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
9	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
10	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 611 MHz; -9.00 dBm.
LO IN: 681 MHz; +10.00 dBm
IF OUT: 70 MHz; -16.29 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	34	43	40	39	55	41	58	65	49
1	-	24	+0	34	16	39	41	42	32	46	38	49
2	59	63	52	48	47	50	50	65	59	67	61	63
3	>90	80	48	67	48	60	49	64	60	66	57	71
4	>90	>84	77	>84	>84	80	73	76	78	>84	82	84
5	>90	>84	>84	>84	77	>84	77	>84	77	>84	84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 611 MHz; 1.00 dBm.
LO IN: 681 MHz; +10.00 dBm
IF OUT: 70 MHz; -6.41 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.