

Frequency Mixer

HJK-ED9716/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=350MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
760.1	410.1	12.49	12.11	9.72
800.1	450.1	11.62	9.52	9.30
840.1	490.1	9.42	7.79	8.48
880.1	530.1	8.42	7.19	8.71
920.1	570.1	7.87	7.00	8.60
960.1	610.1	8.09	6.99	8.13
1000.1	650.1	8.41	7.05	7.98
1040.1	690.1	9.03	7.32	8.25
1080.1	730.1	9.39	7.46	8.57
1120.1	770.1	9.95	7.79	8.86
1160.1	810.1	10.29	8.01	9.15
1200.1	850.1	10.64	8.19	9.23
1240.1	890.1	10.80	8.31	9.13
1280.1	930.1	11.00	8.42	9.08
1320.1	970.1	11.07	8.50	9.04
1360.1	1010.1	11.20	8.59	9.03
1400.1	1050.1	11.18	8.65	9.03
1440.1	1090.1	11.23	8.72	9.05
1480.1	1130.1	11.23	8.78	9.08
1520.1	1170.1	11.17	8.85	9.14
1560.1	1210.1	11.25	8.93	9.20
1600.1	1250.1	11.07	9.00	9.30
1640.1	1290.1	11.30	9.20	9.46
1680.1	1330.1	11.34	9.39	9.68
1720.1	1370.1	11.46	9.52	9.82
1760.1	1410.1	11.49	9.65	9.99
1800.1	1450.1	11.48	9.77	10.12
1840.1	1490.1	11.59	9.85	10.19
1880.1	1530.1	11.65	10.06	10.42
1920.1	1570.1	11.79	10.10	10.43
1960.1	1610.1	11.92	10.35	10.70
2000.1	1650.1	12.09	10.41	10.74
2040.1	1690.1	12.25	10.59	10.92
2080.1	1730.1	12.59	10.81	11.12
2120.1	1770.1	12.66	10.76	11.06
2160.1	1810.1	13.25	11.21	11.47
2200.1	1850.1	13.56	11.25	11.45
2240.1	1890.1	14.07	11.61	11.79
2280.1	1930.1	14.75	11.91	12.00
2320.1	1970.1	15.04	12.09	12.14

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
760.1	410.1	14.16	15.40	18.83
800.1	450.1	15.32	21.97	21.37
840.1	490.1	19.79	28.66	27.31
880.1	530.1	23.32	33.15	27.22
920.1	570.1	27.20	35.90	27.58
960.1	610.1	25.41	35.20	27.52
1000.1	650.1	23.41	40.29	25.91
1040.1	690.1	20.71	31.36	23.27
1080.1	730.1	19.63	28.07	21.36
1120.1	770.1	18.14	25.04	20.25
1160.1	810.1	17.61	24.44	21.35
1200.1	850.1	16.85	23.10	24.69
1240.1	890.1	16.35	22.28	25.53
1280.1	930.1	16.00	21.63	25.07
1320.1	970.1	15.84	21.29	24.46
1360.1	1010.1	15.88	21.17	24.21
1400.1	1050.1	15.95	21.12	24.31
1440.1	1090.1	15.96	21.11	24.40
1480.1	1130.1	16.03	21.15	24.00
1520.1	1170.1	16.38	21.74	24.33
1560.1	1210.1	16.30	21.48	24.37
1600.1	1250.1	16.98	22.08	25.12
1640.1	1290.1	16.81	21.90	25.29
1680.1	1330.1	16.75	22.36	25.50
1720.1	1370.1	16.73	22.82	25.56
1760.1	1410.1	16.94	22.48	25.62
1800.1	1450.1	17.59	23.32	26.02
1840.1	1490.1	17.50	23.20	25.89
1880.1	1530.1	18.00	23.87	26.59
1920.1	1570.1	17.67	23.36	26.32
1960.1	1610.1	17.90	23.76	26.77
2000.1	1650.1	17.87	23.63	27.00
2040.1	1690.1	18.01	23.66	27.08
2080.1	1730.1	18.12	23.67	27.20
2120.1	1770.1	18.03	23.39	26.93
2160.1	1810.1	17.95	23.21	27.03
2200.1	1850.1	17.37	22.84	26.73
2240.1	1890.1	17.14	22.56	26.68
2280.1	1930.1	16.43	21.65	25.79
2320.1	1970.1	16.19	21.33	25.63

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
760.1	410.1	-0.54	-0.36	0.08
800.1	450.1	-0.77	0.32	0.11
840.1	490.1	-0.36	0.15	0.29
880.1	530.1	-0.18	0.09	-0.17
920.1	570.1	-0.10	0.07	-0.19
960.1	610.1	-0.21	0.08	-0.21
1000.1	650.1	-0.36	0.04	-0.28
1040.1	690.1	-0.60	-0.02	-0.55
1080.1	730.1	-0.78	-0.08	-0.92
1120.1	770.1	-1.03	-0.15	-0.94
1160.1	810.1	-1.19	-0.20	-0.96
1200.1	850.1	-1.42	-0.27	-0.90
1240.1	890.1	-1.53	-0.32	-0.76
1280.1	930.1	-1.59	-0.34	-0.68
1320.1	970.1	-1.50	-0.31	-0.57
1360.1	1010.1	-1.47	-0.31	-0.53
1400.1	1050.1	-1.33	-0.27	-0.46
1440.1	1090.1	-1.29	-0.26	-0.44
1480.1	1130.1	-1.19	-0.23	-0.40
1520.1	1170.1	-1.09	-0.19	-0.36
1560.1	1210.1	-1.05	-0.15	-0.35
1600.1	1250.1	-0.86	-0.05	-0.26
1640.1	1290.1	-0.93	-0.08	-0.27
1680.1	1330.1	-0.90	-0.08	-0.24
1720.1	1370.1	-0.96	-0.12	-0.26
1760.1	1410.1	-0.91	-0.10	-0.25
1800.1	1450.1	-0.85	-0.09	-0.23
1840.1	1490.1	-0.88	-0.11	-0.25
1880.1	1530.1	-0.82	-0.11	-0.22
1920.1	1570.1	-0.90	-0.13	-0.25
1960.1	1610.1	-0.86	-0.13	-0.23
2000.1	1650.1	-0.95	-0.18	-0.26
2040.1	1690.1	-0.96	-0.18	-0.26
2080.1	1730.1	-1.04	-0.21	-0.28
2120.1	1770.1	-1.11	-0.23	-0.31
2160.1	1810.1	-1.21	-0.27	-0.34
2200.1	1850.1	-1.40	-0.33	-0.40
2240.1	1890.1	-1.50	-0.36	-0.43
2280.1	1930.1	-1.79	-0.47	-0.52
2320.1	1970.1	-1.87	-0.51	-0.55

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=915.1MHz (dB)
		@LO (dBm)
		+17
600.0	315.1	13.10
571.2	343.9	12.08
542.4	372.7	11.25
513.7	401.4	10.35
484.9	430.2	10.14
456.1	459.0	9.53
427.3	487.8	8.29
398.5	516.6	7.56
369.8	545.3	7.15
341.0	574.1	6.97
312.2	602.9	6.86
283.4	631.7	6.87
254.6	660.5	6.92
225.9	689.2	7.01
197.1	718.0	7.16
168.3	746.8	7.24
139.5	775.6	7.47
110.7	804.4	7.54
82.0	833.1	7.70
53.2	861.9	7.82
24.4	890.7	8.04
10.0	925.1	8.90
62.2	977.3	8.17
114.4	1029.5	8.20
166.6	1081.7	8.30
218.8	1133.9	8.47
271.0	1186.1	8.55
323.2	1238.3	8.68
375.4	1290.5	8.90
427.6	1342.7	8.95
479.8	1394.9	9.24
558.0	1473.1	9.32
610.2	1525.3	9.33
688.5	1603.6	9.44
740.7	1655.8	9.54
819.0	1734.1	9.78
871.2	1786.3	9.80
949.5	1864.6	10.31
1001.7	1916.8	10.77
1080.0	1995.1	11.30

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=902.1MHz (dB)
		@LO (dBm)
		+17
10.0	912.1	8.91
30.0	932.1	8.25
50.0	952.1	8.19
70.0	972.1	8.29
90.0	992.1	8.18
110.0	1012.1	8.28
130.0	1032.1	8.33
150.0	1052.1	8.32
170.0	1072.1	8.38
200.0	1102.1	8.51
220.0	1122.1	8.57
250.0	1152.1	8.59
270.0	1172.1	8.62
300.0	1202.1	8.79
320.0	1222.1	8.84
350.0	1252.1	8.84
370.0	1272.1	8.96
400.0	1302.1	9.13
420.0	1322.1	9.08
450.0	1352.1	9.17
470.0	1372.1	9.27
500.0	1402.1	9.39
520.0	1422.1	9.36
550.0	1452.1	9.37
570.0	1472.1	9.49
600.0	1502.1	9.52
620.0	1522.1	9.49
650.0	1552.1	9.52
670.0	1572.1	9.62
700.0	1602.1	9.61
720.0	1622.1	9.62
750.0	1652.1	9.65
770.0	1672.1	9.72
800.0	1702.1	9.78
820.0	1722.1	9.87
850.0	1752.1	9.86
870.0	1772.1	9.92
900.0	1802.1	10.09
920.0	1822.1	10.34
950.0	1852.1	10.46

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=928.1MHz (dB)
		@LO (dBm)
		+17
630.0	298.1	12.53
610.0	318.1	11.77
590.0	338.1	11.29
570.0	358.1	10.97
550.0	378.1	10.38
530.0	398.1	9.91
510.0	418.1	10.19
490.0	438.1	9.22
470.0	458.1	8.92
460.0	468.1	9.01
440.0	488.1	8.33
430.0	498.1	7.93
410.0	518.1	7.52
400.0	528.1	7.39
380.0	548.1	7.14
370.0	558.1	7.11
350.0	578.1	7.01
340.0	588.1	6.89
320.0	608.1	6.85
310.0	618.1	6.88
290.0	638.1	6.87
280.0	648.1	6.90
260.0	668.1	6.97
250.0	678.1	7.01
230.0	698.1	7.06
220.0	708.1	7.08
200.0	728.1	7.23
190.0	738.1	7.23
170.0	758.1	7.34
160.0	768.1	7.42
140.0	788.1	7.50
130.0	798.1	7.55
110.0	818.1	7.60
100.0	828.1	7.63
80.0	848.1	7.75
70.0	858.1	7.86
50.0	878.1	7.87
40.0	888.1	7.97
20.0	908.1	8.21
10.0	918.1	8.79

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
410.1	43.29	44.03	28.73	40.02	40.86	27.29
450.1	44.85	45.78	28.46	39.14	42.20	27.31
490.1	44.52	45.86	28.73	37.65	40.16	26.97
530.1	43.00	46.13	27.49	36.38	38.59	26.23
570.1	42.29	45.85	28.02	36.11	37.73	26.72
610.1	41.24	45.00	27.44	36.14	37.15	27.12
650.1	40.77	44.36	27.24	37.33	37.49	29.40
690.1	39.64	42.54	26.74	39.20	38.50	30.31
730.1	39.15	41.41	27.84	41.47	39.94	32.60
770.1	37.92	39.61	29.34	43.62	41.09	35.30
810.1	37.75	39.25	31.20	43.03	40.27	38.07
850.1	38.24	39.60	32.94	43.04	40.28	39.84
890.1	38.37	39.65	33.57	43.30	40.44	39.51
930.1	38.31	39.67	33.73	43.33	40.47	38.72
970.1	38.03	39.37	33.10	43.55	40.70	37.78
1010.1	38.04	39.33	32.72	43.33	40.58	37.11
1050.1	37.83	39.07	32.17	43.47	40.76	36.75
1090.1	37.28	38.59	32.10	43.61	40.95	36.30
1130.1	37.31	38.59	31.92	43.84	41.18	35.89
1170.1	37.06	38.20	31.52	44.21	41.53	35.56
1210.1	36.53	37.53	31.21	44.85	41.82	35.02
1250.1	36.16	36.90	30.98	45.46	42.10	35.03
1290.1	35.98	37.13	31.41	47.17	43.20	34.71
1330.1	36.48	38.45	31.59	49.57	45.16	34.26
1370.1	37.03	39.94	31.62	50.17	46.83	33.64
1410.1	37.95	41.67	31.43	47.55	46.65	32.85
1450.1	40.29	45.54	31.22	44.00	44.71	32.30
1490.1	44.80	47.07	30.50	41.21	42.43	31.60
1530.1	47.75	41.69	29.73	39.58	41.14	31.37
1570.1	43.78	39.36	29.32	38.56	39.98	31.49
1610.1	41.52	38.78	29.63	37.51	38.37	31.71
1650.1	40.78	38.93	29.92	36.31	36.77	31.92
1690.1	40.88	39.77	30.56	35.05	35.25	32.08
1730.1	40.97	40.20	30.67	34.02	34.08	32.21
1770.1	41.53	41.10	31.18	33.26	33.23	32.49
1810.1	42.47	42.48	31.61	32.65	32.50	32.53
1850.1	43.48	44.13	32.27	32.28	32.08	32.78
1890.1	43.93	45.53	33.07	31.91	31.53	32.83
1930.1	44.08	46.11	33.60	31.84	31.31	33.02
1970.1	44.35	47.03	34.66	31.84	31.20	33.36

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
760.1	410.1	30.03	28.47	25.58
800.1	450.1	28.52	28.63	25.65
840.1	490.1	30.37	33.83	26.25
880.1	530.1	32.30	37.43	24.22
920.1	570.1	34.40	36.81	22.25
960.1	610.1	33.93	36.59	21.72
1000.1	650.1	33.56	37.08	20.57
1040.1	690.1	31.80	34.68	18.17
1080.1	730.1	30.21	32.34	15.90
1120.1	770.1	28.16	29.48	14.57
1160.1	810.1	28.08	28.99	14.61
1200.1	850.1	29.75	29.91	16.02
1240.1	890.1	30.47	30.24	17.41
1280.1	930.1	30.37	29.96	18.73
1320.1	970.1	30.32	29.95	20.22
1360.1	1010.1	30.11	29.61	21.56
1400.1	1050.1	30.12	29.62	22.95
1440.1	1090.1	30.31	29.88	24.39
1480.1	1130.1	30.60	30.20	25.93
1520.1	1170.1	31.00	30.48	27.50
1560.1	1210.1	31.31	30.48	28.96
1600.1	1250.1	31.61	30.48	30.11
1640.1	1290.1	31.70	30.15	30.71
1680.1	1330.1	30.90	29.54	30.99
1720.1	1370.1	30.16	29.00	30.80
1760.1	1410.1	29.86	28.78	30.81
1800.1	1450.1	29.75	28.82	30.95
1840.1	1490.1	29.69	28.77	30.97
1880.1	1530.1	29.33	28.82	30.85
1920.1	1570.1	28.72	28.41	30.33
1960.1	1610.1	28.26	28.16	30.02
2000.1	1650.1	27.92	27.87	29.76
2040.1	1690.1	27.67	27.59	29.47
2080.1	1730.1	27.50	27.32	29.20
2120.1	1770.1	27.20	26.89	28.77
2160.1	1810.1	27.25	26.71	28.60
2200.1	1850.1	27.27	26.51	28.44
2240.1	1890.1	27.35	26.45	28.42
2280.1	1930.1	27.45	26.30	28.34
2320.1	1970.1	27.57	26.35	28.37

Frequency Mixer

HJK-ED9716/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=578MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
760.1	410.1	3.00	2.01	1.93	410.1	14.87	14.87	7.41	10.0	1.26	1.38	1.42
800.1	450.1	2.25	1.70	1.78	450.1	12.52	12.26	5.13	20.0	1.13	1.36	1.39
840.1	490.1	1.90	1.60	1.62	490.1	8.05	7.80	3.37	30.0	1.08	1.30	1.35
880.1	530.1	1.71	1.53	1.50	530.1	5.28	5.09	2.22	40.0	1.04	1.29	1.35
920.1	570.1	1.62	1.47	1.44	570.1	4.18	4.12	1.48	50.0	1.05	1.34	1.38
960.1	610.1	1.63	1.38	1.34	610.1	4.73	4.79	1.43	60.0	1.04	1.33	1.36
1000.1	650.1	1.72	1.37	1.32	650.1	6.28	6.46	2.16	80.0	1.17	1.31	1.33
1040.1	690.1	1.85	1.38	1.31	690.1	8.20	8.47	3.41	90.0	1.17	1.36	1.37
1080.1	730.1	1.89	1.40	1.33	730.1	10.43	10.75	5.44	110.0	1.22	1.32	1.33
1120.1	770.1	2.04	1.48	1.41	770.1	12.26	12.61	7.53	120.0	1.27	1.39	1.38
1160.1	810.1	2.02	1.46	1.45	810.1	13.49	13.81	8.64	140.0	1.27	1.37	1.38
1200.1	850.1	2.07	1.47	1.42	850.1	14.74	15.26	9.13	150.0	1.33	1.41	1.40
1240.1	890.1	2.00	1.42	1.33	890.1	15.00	15.26	8.68	170.0	1.34	1.42	1.41
1280.1	930.1	1.94	1.37	1.26	930.1	15.96	16.41	8.77	180.0	1.40	1.41	1.40
1320.1	970.1	1.87	1.31	1.19	970.1	15.53	15.81	8.31	200.0	1.50	1.54	1.50
1360.1	1010.1	1.76	1.24	1.12	1010.1	15.26	15.53	8.08	210.0	1.48	1.51	1.48
1400.1	1050.1	1.69	1.19	1.08	1050.1	14.74	15.00	7.80	230.0	1.58	1.57	1.53
1440.1	1090.1	1.56	1.10	1.03	1090.1	13.19	13.19	7.14	240.0	1.58	1.58	1.54
1480.1	1130.1	1.47	1.04	1.07	1130.1	12.71	12.89	7.00	260.0	1.69	1.61	1.57
1520.1	1170.1	1.32	1.07	1.18	1170.1	11.46	11.46	6.39	270.0	1.74	1.70	1.63
1560.1	1210.1	1.27	1.15	1.25	1210.1	10.62	10.69	6.05	290.0	1.76	1.67	1.62
1600.1	1250.1	1.16	1.28	1.39	1250.1	9.53	9.53	5.52	300.0	1.85	1.76	1.68
1640.1	1290.1	1.19	1.40	1.51	1290.1	8.20	8.16	4.89	320.0	1.81	1.73	1.67
1680.1	1330.1	1.22	1.52	1.64	1330.1	7.44	7.41	4.51	330.0	1.89	1.76	1.70
1720.1	1370.1	1.34	1.70	1.82	1370.1	6.42	6.35	3.95	350.0	1.97	1.87	1.79
1760.1	1410.1	1.44	1.78	1.90	1410.1	5.66	5.63	3.56	360.0	1.98	1.84	1.77
1800.1	1450.1	1.59	1.98	2.11	1450.1	4.86	4.79	3.11	380.0	2.14	2.00	1.89
1840.1	1490.1	1.72	2.05	2.18	1490.1	4.16	4.10	2.73	390.0	2.10	1.96	1.87
1880.1	1530.1	1.83	2.19	2.31	1530.1	3.56	3.51	2.39	410.0	2.24	2.05	1.95
1920.1	1570.1	2.00	2.33	2.45	1570.1	3.05	3.02	2.09	420.0	2.24	2.08	1.97
1960.1	1610.1	2.06	2.37	2.47	1610.1	2.67	2.65	1.87	440.0	2.30	2.09	1.99
2000.1	1650.1	2.23	2.52	2.62	1650.1	2.33	2.32	1.68	450.0	2.42	2.23	2.09
2040.1	1690.1	2.31	2.52	2.59	1690.1	2.12	2.13	1.59	470.0	2.40	2.21	2.09
2080.1	1730.1	2.39	2.56	2.63	1730.1	1.98	2.01	1.57	480.0	2.52	2.32	2.18
2120.1	1770.1	2.53	2.60	2.65	1770.1	2.00	2.06	1.68	500.0	2.51	2.39	2.22
2160.1	1810.1	2.54	2.55	2.57	1810.1	2.07	2.15	1.83	510.0	2.54	2.41	2.25
2200.1	1850.1	2.72	2.64	2.65	1850.1	2.27	2.37	2.08	530.0	2.60	2.64	2.38
2240.1	1890.1	2.76	2.59	2.57	1890.1	2.50	2.61	2.32	540.0	2.54	2.64	2.36
2280.1	1930.1	2.89	2.64	2.60	1930.1	2.80	2.92	2.63	560.0	2.40	2.78	2.40
2320.1	1970.1	2.99	2.67	2.59	1970.1	3.15	3.29	2.98	570.0	2.12	2.49	2.20

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	8	24	24	37	41	33	47	30	41
1	-	27	+0	33	14	35	24	31	39	35	50	34
2	67	60	67	60	>82	65	67	72	66	>82	73	75
3	>90	75	79	67	71	67	67	>82	72	69	76	>82
4	>90	>82	>82	81	>82	77	82	74	80	76	>82	79
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 915.1 MHz; 0.00 dBm.
LO IN: 565.1 MHz; +17.00 dBm
IF OUT: 350 MHz; -7.8 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	18	35	35	45	58	43	44	42	49
1	-	26	+0	31	14	31	23	29	41	34	52	34
2	47	55	61	55	56	47	52	52	52	57	71	61
3	76	59	48	58	47	70	47	59	51	55	56	57
4	>90	78	76	74	86	77	75	76	70	78	74	77
5	>90	84	73	82	82	78	75	80	72	82	71	81
6	>90	82	83	87	>92	>92	>92	>92	86	89	82	85
7	>90	>92	85	>92	88	90	>92	90	87	84	82	82
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	88	88
9	>90	>92	>92	>92	>92	>92	>92	91	>92	92	>92	90
10	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 915.1 MHz; 10.00 dBm.
LO IN: 565.1 MHz; +17.00 dBm
IF OUT: 350 MHz; 2.31 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.