

Frequency Mixer

HJK-ED10062/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=189MHz (dB)		
		@LO (dBm)		
		+7	+10	+13
464.1	653.1	13.95	10.52	8.74
504.1	693.1	12.23	9.62	8.46
544.1	733.1	11.56	9.76	9.00
584.1	773.1	10.99	9.17	8.12
624.1	813.1	10.21	8.49	7.65
664.1	853.1	9.49	8.03	7.31
704.1	893.1	8.79	7.63	7.15
744.1	933.1	8.20	7.31	6.94
784.1	973.1	7.73	7.12	6.87
824.1	1013.1	7.44	6.97	6.78
864.1	1053.1	7.33	6.93	6.77
904.1	1093.1	7.33	7.03	6.94
944.1	1133.1	7.33	7.03	6.92
984.1	1173.1	7.39	7.08	6.96
1024.1	1213.1	7.51	7.10	6.93
1064.1	1253.1	7.69	7.21	7.03
1104.1	1293.1	8.03	7.49	7.25
1149.1	1338.1	8.35	7.74	7.44
1189.1	1378.1	8.52	7.77	7.35
1234.1	1423.1	8.58	7.73	7.29
1274.1	1463.1	8.61	7.75	7.33
1319.1	1508.1	8.96	7.96	7.43
1359.1	1548.1	8.99	7.97	7.42
1404.1	1593.1	9.51	8.19	7.50
1444.1	1633.1	9.32	8.10	7.44
1489.1	1678.1	9.84	8.36	7.55
1529.1	1718.1	9.71	8.28	7.50
1574.1	1763.1	10.11	8.46	7.59
1614.1	1803.1	10.06	8.43	7.58
1659.1	1848.1	10.33	8.60	7.67
1699.1	1888.1	10.43	8.68	7.74
1744.1	1933.1	10.59	8.73	7.80
1784.1	1973.1	10.78	8.90	7.93
1829.1	2018.1	10.73	8.89	8.02
1869.1	2058.1	11.19	9.14	8.16
1914.1	2103.1	10.91	9.17	8.32
1954.1	2143.1	11.61	9.59	8.55
1999.1	2188.1	11.48	9.72	8.80
2039.1	2228.1	12.18	10.22	9.10
2084.1	2273.1	12.15	10.37	9.33

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+7	+10	+13
464.1	653.1	8.50	12.07	13.21
504.1	693.1	10.14	10.13	10.04
544.1	733.1	7.85	8.73	16.73
584.1	773.1	7.73	12.71	20.40
624.1	813.1	9.17	14.71	20.28
664.1	853.1	10.00	14.60	19.23
704.1	893.1	11.35	16.51	21.35
744.1	933.1	14.04	18.85	23.65
784.1	973.1	16.75	21.53	26.19
824.1	1013.1	18.06	22.44	27.51
864.1	1053.1	18.89	23.72	28.22
904.1	1093.1	19.49	24.67	28.45
944.1	1133.1	19.97	25.09	28.66
984.1	1173.1	19.46	24.99	28.17
1024.1	1213.1	18.27	22.69	28.34
1064.1	1253.1	17.98	21.78	25.24
1104.1	1293.1	18.58	22.98	26.91
1149.1	1338.1	22.84	25.03	25.09
1189.1	1378.1	24.50	21.32	24.27
1234.1	1423.1	20.40	21.41	24.99
1274.1	1463.1	18.34	20.85	24.15
1319.1	1508.1	16.70	19.49	22.41
1359.1	1548.1	16.09	18.78	21.83
1404.1	1593.1	16.14	18.49	21.70
1444.1	1633.1	16.57	19.13	22.43
1489.1	1678.1	17.27	19.00	22.04
1529.1	1718.1	17.05	19.18	22.10
1574.1	1763.1	16.36	18.64	21.04
1614.1	1803.1	15.47	18.16	20.38
1659.1	1848.1	14.74	17.56	19.56
1699.1	1888.1	14.03	17.19	19.22
1744.1	1933.1	14.04	16.99	19.27
1784.1	1973.1	13.19	16.69	19.44
1829.1	2018.1	13.58	16.71	20.20
1869.1	2058.1	12.20	16.28	20.21
1914.1	2103.1	13.20	16.71	21.47
1954.1	2143.1	11.49	16.28	20.84
1999.1	2188.1	12.31	16.86	21.26
2039.1	2228.1	10.96	15.92	19.55
2084.1	2273.1	11.61	15.60	18.62

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)		
		+7	+10	+13
464.1	653.1	-1.93	-0.26	0.06
504.1	693.1	-0.59	0.43	0.44
544.1	733.1	-0.41	0.01	-0.15
584.1	773.1	-0.38	-0.02	0.11
624.1	813.1	-0.12	0.16	0.17
664.1	853.1	0.48	0.63	0.48
704.1	893.1	2.04	1.60	0.64
744.1	933.1	1.82	0.97	0.34
784.1	973.1	1.26	0.51	0.20
824.1	1013.1	0.87	0.36	0.15
864.1	1053.1	0.72	0.31	0.14
904.1	1093.1	0.67	0.29	0.12
944.1	1133.1	0.60	0.27	0.12
984.1	1173.1	0.56	0.27	0.11
1024.1	1213.1	0.50	0.31	0.13
1064.1	1253.1	0.30	0.24	0.12
1104.1	1293.1	0.07	0.13	0.07
1149.1	1338.1	0.00	0.12	0.13
1189.1	1378.1	0.15	0.29	0.23
1234.1	1423.1	0.31	0.37	0.25
1274.1	1463.1	0.56	0.47	0.33
1319.1	1508.1	0.79	0.66	0.44
1359.1	1548.1	0.91	0.83	0.56
1404.1	1593.1	0.47	0.78	0.57
1444.1	1633.1	0.52	0.74	0.52
1489.1	1678.1	0.21	0.67	0.55
1529.1	1718.1	0.27	0.67	0.53
1574.1	1763.1	0.06	0.62	0.57
1614.1	1803.1	0.08	0.62	0.56
1659.1	1848.1	-0.05	0.58	0.56
1699.1	1888.1	-0.10	0.56	0.56
1744.1	1933.1	-0.18	0.55	0.53
1784.1	1973.1	-0.29	0.50	0.54
1829.1	2018.1	-0.21	0.55	0.53
1869.1	2058.1	-0.45	0.47	0.56
1914.1	2103.1	-0.25	0.51	0.50
1954.1	2143.1	-0.58	0.33	0.53
1999.1	2188.1	-0.44	0.33	0.45
2039.1	2228.1	-0.76	0.10	0.41
2084.1	2273.1	-0.63	0.12	0.34

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=859MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=813.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=904.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
230.0	629.0	10.45	10.1	824.0	8.23	270.1	634.0	10.26
220.8	638.2	10.32	30.1	844.0	7.89	265.1	639.0	10.15
211.7	647.3	10.00	50.1	864.0	7.70	260.1	644.0	10.08
202.5	656.5	9.82	70.1	884.0	7.47	255.1	649.0	9.94
193.3	665.7	9.58	90.1	904.0	7.38	250.1	654.0	9.79
184.2	674.8	9.22	110.1	924.0	7.27	245.1	659.0	9.70
175.0	684.0	9.04	130.1	944.0	7.19	240.1	664.0	9.48
165.8	693.2	8.96	150.1	964.0	7.05	235.1	669.0	9.31
156.7	702.3	8.85	170.1	984.0	7.04	230.1	674.0	9.21
147.5	711.5	8.98	190.1	1004.0	7.02	225.1	679.0	9.08
138.3	720.7	9.21	210.1	1024.0	6.97	220.1	684.0	9.03
129.2	729.8	9.32	230.1	1044.0	7.02	215.1	689.0	8.99
120.0	739.0	9.47	250.1	1064.0	7.02	210.1	694.0	8.87
110.8	748.2	9.49	270.1	1084.0	7.12	205.1	699.0	8.85
101.7	757.3	9.33	290.1	1104.0	7.21	195.1	709.0	8.83
92.5	766.5	9.16	310.1	1124.0	7.28	190.1	714.0	8.94
83.3	775.7	8.99	330.1	1144.0	7.35	180.1	724.0	9.13
74.2	784.8	8.72	350.1	1164.0	7.38	175.1	729.0	9.30
65.0	794.0	8.61	370.1	1184.0	7.45	165.1	739.0	9.37
55.8	803.2	8.40	390.1	1204.0	7.54	160.1	744.0	9.42
37.5	821.5	8.17	410.1	1224.0	7.62	150.1	754.0	9.27
28.3	830.7	8.08	430.1	1244.0	7.67	145.1	759.0	9.24
10.0	849.0	7.93	450.1	1264.0	7.86	135.1	769.0	9.08
10.0	869.0	7.69	470.1	1284.0	8.09	130.1	774.0	8.96
71.7	930.7	7.15	490.1	1304.0	8.34	120.1	784.0	8.82
102.5	961.5	7.02	510.1	1324.0	8.52	115.1	789.0	8.66
164.2	1023.2	6.94	530.1	1344.0	8.64	105.1	799.0	8.47
195.0	1054.0	6.97	550.1	1364.0	8.84	100.1	804.0	8.33
256.7	1115.7	7.14	570.1	1384.0	8.98	90.1	814.0	8.27
287.5	1146.5	7.22	590.1	1404.0	9.15	85.1	819.0	8.17
349.2	1208.2	7.44	610.1	1424.0	9.17	75.1	829.0	8.04
380.0	1239.0	7.57	630.1	1444.0	9.28	70.1	834.0	8.02
441.7	1300.7	8.10	650.1	1464.0	9.48	60.1	844.0	7.90
472.5	1331.5	8.44	670.1	1484.0	9.76	55.1	849.0	7.85
534.2	1393.2	8.87	690.1	1504.0	9.87	45.1	859.0	7.73
565.0	1424.0	9.01	710.1	1524.0	9.85	40.1	864.0	7.66
626.7	1485.7	9.58	730.1	1544.0	10.00	30.1	874.0	7.51
657.5	1516.5	9.75	740.1	1554.0	10.09	25.1	879.0	7.47
719.2	1578.2	10.20	760.1	1574.0	10.34	15.1	889.0	7.40
750.0	1609.0	10.34	770.1	1584.0	10.45	10.1	894.0	7.45

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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
653.1	50.91	52.23	52.01	53.11	46.88	43.45
693.1	49.10	51.16	51.75	48.52	43.76	40.88
733.1	46.69	48.50	51.96	45.53	43.60	43.57
773.1	44.55	46.81	49.99	43.75	44.07	44.73
813.1	42.63	44.84	47.30	42.25	43.14	43.87
853.1	40.80	42.55	44.30	40.35	41.29	41.86
893.1	39.01	40.33	41.58	38.41	39.26	39.90
933.1	37.00	38.11	39.04	36.34	37.19	37.94
973.1	34.55	35.15	35.73	34.60	35.54	36.37
1013.1	32.10	32.37	32.48	33.27	34.41	35.38
1053.1	28.90	28.61	28.33	32.94	34.53	35.97
1093.1	27.25	26.92	26.76	33.28	35.58	37.78
1133.1	27.39	27.61	27.75	31.95	33.72	35.22
1173.1	28.12	28.63	29.00	30.35	31.56	32.65
1213.1	29.33	30.08	30.60	29.46	30.48	31.37
1253.1	29.88	30.66	31.33	29.09	29.90	30.70
1293.1	31.37	32.79	34.05	28.82	29.49	30.11
1338.1	33.41	36.30	39.21	28.80	29.23	29.60
1378.1	35.23	38.59	41.09	28.50	28.89	29.29
1423.1	35.00	36.27	36.72	28.23	28.77	29.37
1463.1	34.56	35.25	35.47	27.94	28.73	29.43
1508.1	33.53	34.12	34.41	27.77	28.69	29.54
1548.1	33.14	33.84	34.32	27.85	28.75	29.55
1593.1	32.04	32.80	33.50	27.74	28.65	29.54
1633.1	31.81	32.80	33.72	27.96	28.87	29.76
1678.1	31.02	32.04	33.03	27.99	28.92	29.86
1718.1	30.89	32.15	33.30	28.28	29.22	30.17
1763.1	30.32	31.54	32.73	28.42	29.37	30.43
1803.1	30.27	31.60	32.89	28.70	29.64	30.71
1848.1	29.99	31.26	32.39	28.97	29.95	30.99
1888.1	29.87	31.25	32.51	29.27	30.20	31.22
1933.1	29.72	30.88	31.95	29.75	30.54	31.44
1973.1	29.41	30.69	31.88	30.07	30.88	31.63
2018.1	29.22	30.33	31.34	30.77	31.49	32.00
2058.1	28.75	29.94	31.06	31.19	32.01	32.37
2103.1	28.51	29.75	30.89	31.97	32.74	32.69
2143.1	27.94	29.35	30.86	32.33	33.10	32.98
2188.1	27.75	29.55	31.49	32.90	32.96	32.29
2228.1	27.13	29.28	31.90	32.98	32.59	32.04
2273.1	26.92	29.83	32.99	32.92	32.10	31.47

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
464.1	653.1	45.68	46.92	48.70
504.1	693.1	46.85	47.90	44.74
544.1	733.1	48.19	44.30	44.26
584.1	773.1	45.01	46.17	53.34
624.1	813.1	45.96	51.22	56.67
664.1	853.1	47.39	53.13	55.28
704.1	893.1	46.91	53.24	54.12
744.1	933.1	46.64	54.08	53.57
784.1	973.1	47.34	56.77	52.82
824.1	1013.1	47.88	59.02	50.45
864.1	1053.1	47.86	58.46	47.92
904.1	1093.1	49.41	52.41	44.24
944.1	1133.1	46.23	54.70	45.01
984.1	1173.1	41.05	46.44	43.58
1024.1	1213.1	35.23	37.55	37.82
1064.1	1253.1	30.92	31.92	31.90
1104.1	1293.1	27.85	28.32	28.00
1149.1	1338.1	27.09	27.74	27.52
1189.1	1378.1	29.42	30.59	30.81
1234.1	1423.1	35.62	36.81	37.89
1274.1	1463.1	45.65	43.60	47.40
1319.1	1508.1	44.99	42.17	43.59
1359.1	1548.1	39.20	38.86	39.22
1404.1	1593.1	36.83	36.88	37.58
1444.1	1633.1	35.50	36.27	37.05
1489.1	1678.1	34.67	35.59	36.46
1529.1	1718.1	34.39	35.47	36.23
1574.1	1763.1	34.36	35.51	36.28
1614.1	1803.1	34.97	36.09	36.72
1659.1	1848.1	36.36	37.41	37.93
1699.1	1888.1	38.95	39.85	40.08
1744.1	1933.1	43.71	43.93	43.41
1784.1	1973.1	42.27	42.00	42.27
1829.1	2018.1	35.86	36.04	37.00
1869.1	2058.1	32.13	31.83	32.42
1914.1	2103.1	28.50	28.15	28.54
1954.1	2143.1	26.62	25.63	25.71
1999.1	2188.1	24.22	23.29	23.59
2039.1	2228.1	23.30	21.90	22.21
2084.1	2273.1	22.01	20.88	21.43

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=894MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
464.1	653.1	3.40	2.65	2.22	653.1	25.56	24.14	22.87	10.0	1.21	1.02	1.21
504.1	693.1	3.03	2.42	2.05	693.1	21.20	19.98	18.50	30.0	1.26	1.05	1.16
544.1	733.1	2.83	2.18	1.58	733.1	17.93	17.22	16.89	50.0	1.26	1.08	1.18
584.1	773.1	2.49	1.81	1.41	773.1	14.87	14.50	14.15	70.0	1.27	1.16	1.27
624.1	813.1	2.18	1.62	1.34	813.1	12.26	11.93	11.61	90.0	1.32	1.20	1.28
664.1	853.1	1.97	1.52	1.30	853.1	9.74	9.38	9.04	110.0	1.35	1.20	1.26
704.1	893.1	1.76	1.39	1.27	893.1	7.50	7.17	6.89	130.0	1.39	1.25	1.30
744.1	933.1	1.60	1.33	1.26	933.1	5.56	5.27	5.02	150.0	1.47	1.36	1.40
784.1	973.1	1.46	1.28	1.28	973.1	3.97	3.74	3.56	170.0	1.51	1.38	1.40
824.1	1013.1	1.37	1.26	1.29	1013.1	2.84	2.67	2.54	190.0	1.53	1.39	1.41
864.1	1053.1	1.30	1.25	1.31	1053.1	2.14	2.03	1.95	210.0	1.60	1.47	1.48
904.1	1093.1	1.25	1.24	1.33	1093.1	1.95	1.92	1.92	230.0	1.70	1.55	1.53
944.1	1133.1	1.24	1.22	1.33	1133.1	2.28	2.34	2.40	250.0	1.73	1.57	1.55
984.1	1173.1	1.23	1.19	1.28	1173.1	2.99	3.13	3.25	270.0	1.77	1.63	1.62
1024.1	1213.1	1.26	1.15	1.22	1213.1	3.93	4.13	4.31	290.0	1.87	1.72	1.69
1064.1	1253.1	1.28	1.14	1.19	1253.1	5.03	5.28	5.49	310.0	1.93	1.74	1.68
1104.1	1293.1	1.34	1.14	1.12	1293.1	6.15	6.42	6.63	330.0	2.00	1.81	1.75
1149.1	1338.1	1.34	1.12	1.09	1338.1	7.50	7.83	8.12	350.0	2.09	1.91	1.86
1189.1	1378.1	1.38	1.14	1.07	1378.1	8.72	9.18	9.58	370.0	2.17	1.96	1.88
1234.1	1423.1	1.43	1.17	1.06	1423.1	10.31	10.89	11.31	390.0	2.20	1.95	1.85
1274.1	1463.1	1.46	1.19	1.05	1463.1	11.69	12.26	12.61	410.0	2.32	2.07	1.97
1319.1	1508.1	1.56	1.25	1.05	1508.1	13.09	13.70	14.15	430.0	2.45	2.20	2.09
1359.1	1548.1	1.56	1.24	1.02	1548.1	14.26	14.87	15.13	450.0	2.48	2.20	2.07
1404.1	1593.1	1.67	1.29	1.05	1593.1	15.39	15.81	16.11	470.0	2.53	2.22	2.10
1444.1	1633.1	1.61	1.25	1.04	1633.1	15.96	16.26	16.56	490.0	2.68	2.36	2.22
1489.1	1678.1	1.73	1.32	1.08	1678.1	16.56	16.89	16.89	510.0	2.81	2.46	2.30
1529.1	1718.1	1.69	1.29	1.08	1718.1	17.22	17.39	17.39	530.0	2.80	2.43	2.27
1574.1	1763.1	1.76	1.34	1.11	1763.1	17.39	17.39	17.22	550.0	2.91	2.53	2.37
1614.1	1803.1	1.75	1.32	1.13	1803.1	17.39	17.39	17.39	570.0	3.03	2.62	2.43
1659.1	1848.1	1.77	1.35	1.17	1848.1	17.22	17.05	16.72	590.0	3.10	2.65	2.44
1699.1	1888.1	1.79	1.37	1.21	1888.1	17.22	17.05	16.89	610.0	3.16	2.71	2.51
1744.1	1933.1	1.77	1.37	1.26	1933.1	16.89	16.56	16.26	630.0	3.27	2.82	2.61
1784.1	1973.1	1.83	1.42	1.30	1973.1	16.41	16.26	15.96	670.0	3.31	2.82	2.59
1829.1	2018.1	1.79	1.41	1.37	2018.1	15.96	15.53	15.26	690.0	3.39	2.94	2.73
1869.1	2058.1	1.92	1.49	1.41	2058.1	15.26	14.87	14.38	730.0	3.39	2.96	2.74
1914.1	2103.1	1.85	1.52	1.48	2103.1	14.50	14.03	13.70	750.0	3.42	2.99	2.78
1954.1	2143.1	2.04	1.64	1.53	2143.1	13.81	13.29	12.71	790.0	3.51	3.07	2.86
1999.1	2188.1	2.04	1.68	1.61	2188.1	12.99	12.44	12.09	810.0	3.49	3.04	2.85
2039.1	2228.1	2.24	1.83	1.68	2228.1	12.26	11.77	11.38	850.0	3.39	2.92	2.74
2084.1	2273.1	2.29	1.90	1.77	2273.1	11.46	11.24	11.24	870.0	3.26	2.73	2.53

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	14	18	30	25	33	33	42	36	43
1	-	49	+0	52	14	41	21	49	25	52	39	54
2	73	56	67	52	67	59	58	57	60	56	66	60
3	>90	72	61	>78	58	75	61	>78	60	74	63	>78
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 859 MHz; -5.00 dBm.
LO IN: 1048 MHz; +10.00 dBm
IF OUT: 189 MHz; -12.36 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	25	29	40	39	44	48	50	49	56
1	-	49	+0	52	14	41	23	52	28	52	43	55
2	53	46	56	41	55	49	49	49	51	50	60	55
3	80	53	41	61	38	60	42	63	42	57	46	77
4	>90	64	85	67	67	70	74	72	67	66	76	67
5	>90	84	76	75	70	78	65	74	70	76	61	74
6	>90	86	>88	78	83	75	80	75	82	75	>88	80
7	>90	>88	86	>88	85	>88	79	87	79	85	79	>88
8	>90	>88	>88	>88	>88	>88	>88	>88	87	86	>88	87
9	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	86	>88
10	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 859 MHz; 5.00 dBm.
LO IN: 1048 MHz; +10.00 dBm
IF OUT: 189 MHz; -2.49 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.

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