

Frequency Mixer

HJK-ED12286/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
320.0	350.0	11.54	11.09	10.73
379.5	409.5	9.60	9.08	8.71
439.1	469.1	8.25	7.83	7.55
498.6	528.6	7.27	7.07	6.95
558.2	588.2	6.97	6.86	6.79
617.7	647.7	6.79	6.74	6.72
677.3	707.3	6.88	6.88	6.91
736.8	766.8	6.97	7.01	7.07
796.4	826.4	6.92	6.95	7.03
855.9	885.9	7.02	7.05	7.11
935.3	965.3	7.19	7.19	7.21
994.8	1024.8	7.28	7.26	7.27
1074.2	1104.2	7.47	7.43	7.42
1133.8	1163.8	7.62	7.58	7.58
1213.2	1243.2	7.73	7.68	7.66
1272.7	1302.7	7.83	7.77	7.74
1352.1	1382.1	7.86	7.79	7.74
1411.7	1441.7	7.77	7.71	7.67
1491.1	1521.1	7.75	7.68	7.65
1550.6	1580.6	7.94	7.91	7.91
1630.0	1660.0	7.82	7.80	7.81
1689.5	1719.5	7.73	7.74	7.78
1768.9	1798.9	7.63	7.66	7.70
1828.5	1858.5	7.58	7.59	7.64
1907.9	1937.9	7.53	7.55	7.61
1967.4	1997.4	7.52	7.55	7.61
2046.8	2076.8	7.50	7.52	7.58
2106.4	2136.4	7.61	7.60	7.63
2185.8	2215.8	7.74	7.72	7.73
2245.3	2275.3	7.98	7.98	7.99
2324.7	2354.7	8.18	8.19	8.20
2384.2	2414.2	8.31	8.29	8.30
2463.6	2493.6	8.62	8.57	8.58
2523.2	2553.2	8.91	8.85	8.85
2602.6	2632.6	9.12	9.04	9.02
2662.1	2692.1	9.29	9.16	9.10
2741.5	2771.5	9.70	9.52	9.42
2801.1	2831.1	10.01	9.80	9.70
2880.5	2910.5	10.35	10.11	9.99
2940.0	2970.0	10.69	10.41	10.24

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
320.0	350.0	14.78	17.08	19.50
379.5	409.5	14.15	15.86	17.00
439.1	469.1	15.16	17.49	19.50
498.6	528.6	17.68	20.62	23.43
558.2	588.2	20.59	23.17	25.45
617.7	647.7	22.16	24.33	26.33
677.3	707.3	23.93	25.92	28.28
736.8	766.8	25.59	28.04	30.85
796.4	826.4	26.28	29.04	31.24
855.9	885.9	26.58	29.42	31.72
935.3	965.3	25.58	28.46	31.33
994.8	1024.8	24.50	27.27	30.39
1074.2	1104.2	23.34	25.91	28.83
1133.8	1163.8	23.23	25.77	28.89
1213.2	1243.2	23.11	25.01	28.03
1272.7	1302.7	23.11	24.82	26.93
1352.1	1382.1	22.99	24.73	26.72
1411.7	1441.7	23.19	24.84	26.86
1491.1	1521.1	23.20	24.83	26.70
1550.6	1580.6	23.28	25.40	28.28
1630.0	1660.0	24.01	26.52	29.86
1689.5	1719.5	24.85	27.43	31.22
1768.9	1798.9	25.77	28.52	32.21
1828.5	1858.5	26.18	28.86	32.54
1907.9	1937.9	27.05	30.25	34.24
1967.4	1997.4	27.40	30.54	34.68
2046.8	2076.8	26.91	29.91	34.36
2106.4	2136.4	26.66	29.81	33.75
2185.8	2215.8	26.10	28.81	32.20
2245.3	2275.3	25.47	28.51	32.06
2324.7	2354.7	24.10	27.12	30.93
2384.2	2414.2	23.18	25.89	29.63
2463.6	2493.6	22.01	24.30	27.15
2523.2	2553.2	21.35	23.49	25.92
2602.6	2632.6	20.78	22.97	25.22
2662.1	2692.1	20.32	22.81	24.93
2741.5	2771.5	19.45	22.23	24.63
2801.1	2831.1	19.11	22.04	24.62
2880.5	2910.5	18.75	21.73	24.41
2940.0	2970.0	18.23	21.03	23.92

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
320.0	350.0	6.76	5.47	4.41
379.5	409.5	6.59	5.42	3.97
439.1	469.1	6.14	4.90	3.58
498.6	528.6	5.03	3.69	2.25
558.2	588.2	3.60	2.17	1.00
617.7	647.7	2.38	1.14	0.57
677.3	707.3	1.19	0.61	0.33
736.8	766.8	0.68	0.36	0.20
796.4	826.4	0.53	0.28	0.19
855.9	885.9	0.54	0.28	0.17
935.3	965.3	0.70	0.37	0.19
994.8	1024.8	0.89	0.47	0.24
1074.2	1104.2	1.17	0.62	0.32
1133.8	1163.8	1.29	0.68	0.36
1213.2	1243.2	1.38	0.70	0.37
1272.7	1302.7	1.57	0.78	0.41
1352.1	1382.1	1.75	0.85	0.44
1411.7	1441.7	1.74	0.85	0.46
1491.1	1521.1	1.64	0.80	0.44
1550.6	1580.6	1.66	0.80	0.42
1630.0	1660.0	1.44	0.68	0.34
1689.5	1719.5	1.18	0.55	0.27
1768.9	1798.9	0.93	0.45	0.22
1828.5	1858.5	0.84	0.41	0.20
1907.9	1937.9	0.68	0.32	0.15
1967.4	1997.4	0.62	0.29	0.13
2046.8	2076.8	0.73	0.35	0.16
2106.4	2136.4	0.80	0.38	0.18
2185.8	2215.8	1.01	0.47	0.23
2245.3	2275.3	1.31	0.57	0.28
2324.7	2354.7	1.83	0.79	0.36
2384.2	2414.2	2.18	0.96	0.43
2463.6	2493.6	2.80	1.32	0.60
2523.2	2553.2	3.27	1.68	0.77
2602.6	2632.6	3.51	1.94	0.90
2662.1	2692.1	3.93	2.15	1.03
2741.5	2771.5	4.50	2.69	1.30
2801.1	2831.1	4.65	2.82	1.39
2880.5	2910.5	4.74	2.95	1.49
2940.0	2970.0	5.08	3.38	1.70

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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)=1700MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=689.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2700.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1290.0	410.0	11.21	10.1	700.0	7.03	1310.1	1390.0	10.13
1229.0	471.0	9.59	70.1	760.0	6.87	1270.1	1430.0	9.84
1168.1	531.9	8.70	130.1	820.0	6.96	1230.1	1470.0	9.72
1107.1	592.9	8.18	190.1	880.0	7.13	1190.1	1510.0	9.60
1046.2	653.8	7.94	250.1	940.0	7.22	1150.1	1550.0	9.54
985.2	714.8	7.50	310.1	1000.0	7.27	1110.1	1590.0	9.43
924.3	775.7	7.14	370.1	1060.0	7.26	1070.1	1630.0	9.37
863.3	836.7	7.60	430.1	1120.0	7.26	1030.1	1670.0	9.34
802.4	897.6	7.55	490.1	1180.0	7.31	990.1	1710.0	9.33
741.4	958.6	7.12	550.1	1240.0	7.22	950.1	1750.0	9.38
680.5	1019.5	7.09	610.1	1300.0	7.20	910.1	1790.0	9.36
619.5	1080.5	7.09	670.1	1360.0	7.25	870.1	1830.0	9.34
558.6	1141.4	7.05	730.1	1420.0	7.35	830.1	1870.0	9.33
497.6	1202.4	7.17	790.1	1480.0	7.49	790.1	1910.0	9.35
436.7	1263.3	7.23	850.1	1540.0	7.69	750.1	1950.0	9.48
360.5	1339.5	7.34	910.1	1600.0	7.91	730.1	1970.0	9.47
299.5	1400.5	7.47	950.1	1640.0	7.99	690.1	2010.0	9.50
223.3	1476.7	7.60	1010.1	1700.0	8.00	670.1	2030.0	9.60
162.4	1537.6	7.70	1050.1	1740.0	8.02	630.1	2070.0	9.62
86.2	1613.8	7.92	1110.1	1800.0	8.04	610.1	2090.0	9.71
25.2	1674.8	7.87	1150.1	1840.0	8.07	570.1	2130.0	9.88
85.0	1785.0	7.69	1210.1	1900.0	8.13	550.1	2150.0	9.86
185.0	1885.0	7.56	1250.1	1940.0	8.18	510.1	2190.0	9.88
310.0	2010.0	7.54	1310.1	2000.0	8.29	490.1	2210.0	9.86
410.0	2110.0	7.59	1350.1	2040.0	8.34	450.1	2250.0	9.86
535.0	2235.0	7.63	1410.1	2100.0	8.50	430.1	2270.0	9.88
635.0	2335.0	7.68	1450.1	2140.0	8.68	390.1	2310.0	9.91
760.0	2460.0	8.05	1510.1	2200.0	8.91	370.1	2330.0	9.88
860.0	2560.0	8.27	1550.1	2240.0	9.08	330.1	2370.0	9.80
985.0	2685.0	8.48	1610.1	2300.0	9.35	310.1	2390.0	9.72
1085.0	2785.0	8.65	1650.1	2340.0	9.53	270.1	2430.0	9.61
1210.0	2910.0	8.93	1710.1	2400.0	9.66	250.1	2450.0	9.57
1310.0	3010.0	9.15	1750.1	2440.0	9.82	210.1	2490.0	9.47
1435.0	3135.0	9.50	1810.1	2500.0	9.93	190.1	2510.0	9.47
1535.0	3235.0	9.83	1850.1	2540.0	10.13	150.1	2550.0	9.36
1660.0	3360.0	10.21	1910.1	2600.0	10.24	130.1	2570.0	9.33
1760.0	3460.0	10.49	1950.1	2640.0	10.44	90.1	2610.0	9.33
1885.0	3585.0	10.78	2010.1	2700.0	10.58	70.1	2630.0	9.31
1985.0	3685.0	11.03	2050.1	2740.0	10.78	30.1	2670.0	9.31
2110.0	3810.0	11.45	2110.1	2800.0	10.94	10.1	2690.0	9.52

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
350.0	67.00	67.72	66.93	59.07	58.23	57.78
409.5	65.30	70.80	70.39	53.69	52.66	52.00
469.1	57.46	59.23	60.90	50.30	49.56	49.24
528.6	55.81	57.51	58.70	46.71	46.40	46.06
588.2	58.74	62.29	66.26	43.29	43.31	43.28
647.7	55.37	56.02	55.60	39.95	40.13	40.25
707.3	45.07	45.49	45.79	36.93	37.18	37.40
766.8	44.36	44.67	44.76	32.69	33.00	33.18
826.4	43.46	43.44	43.05	29.69	29.81	29.96
885.9	41.70	41.48	41.25	28.51	28.63	28.86
965.3	40.12	39.90	39.67	28.38	28.62	28.76
1024.8	39.06	38.78	38.60	28.42	28.65	28.81
1104.2	37.57	37.24	36.96	28.70	28.86	28.95
1163.8	37.95	37.72	37.60	28.94	29.11	29.14
1243.2	37.94	37.71	37.56	28.53	28.61	28.67
1302.7	36.36	36.20	35.95	27.74	27.86	27.84
1382.1	37.86	37.78	37.75	28.37	28.59	28.77
1441.7	41.01	41.00	40.79	29.89	30.10	30.31
1521.1	39.84	39.80	39.69	31.14	31.31	31.43
1580.6	37.68	37.58	37.33	30.73	30.84	30.85
1660.0	43.09	43.29	43.16	30.40	30.38	30.33
1719.5	45.80	46.10	46.05	30.12	30.09	30.06
1798.9	46.14	46.17	45.95	29.62	29.64	29.58
1858.5	44.49	44.30	43.88	29.55	29.54	29.40
1937.9	41.39	41.00	40.81	29.70	29.48	29.55
1997.4	39.29	38.93	38.80	29.95	29.74	29.76
2076.8	36.91	36.70	36.55	30.83	30.55	30.39
2136.4	36.52	36.43	36.32	31.52	31.31	31.17
2215.8	35.97	36.08	36.05	32.82	32.79	32.66
2275.3	35.92	35.89	36.09	33.71	33.46	33.53
2354.7	36.07	36.04	36.14	35.44	35.36	35.43
2414.2	36.15	36.06	35.87	37.02	37.20	37.13
2493.6	36.45	36.32	36.07	38.51	38.93	39.09
2553.2	36.65	36.61	36.40	39.03	39.63	39.87
2632.6	36.66	36.62	36.37	39.38	39.99	40.26
2692.1	36.67	36.42	36.35	39.49	39.87	40.25
2771.5	36.54	36.27	36.18	39.54	39.82	40.13
2831.1	36.46	36.19	36.16	39.50	39.74	40.02
2910.5	36.39	36.14	36.07	39.28	39.46	39.71
2970.0	36.38	36.29	36.10	38.52	38.78	38.82

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
320.0	350.0	18.70	18.04	17.55
379.5	409.5	19.44	18.13	17.40
439.1	469.1	21.47	20.50	19.53
498.6	528.6	24.07	23.75	23.28
558.2	588.2	27.61	27.50	27.13
617.7	647.7	31.99	31.89	31.23
677.3	707.3	40.06	39.99	38.96
736.8	766.8	53.04	49.61	45.80
796.4	826.4	43.60	43.55	45.63
855.9	885.9	39.71	40.19	40.59
935.3	965.3	34.87	34.86	34.68
994.8	1024.8	33.35	33.36	33.32
1074.2	1104.2	32.50	32.48	32.43
1133.8	1163.8	29.94	29.54	28.87
1213.2	1243.2	30.08	29.88	29.46
1272.7	1302.7	30.41	30.49	30.55
1352.1	1382.1	29.24	29.26	29.43
1411.7	1441.7	28.25	28.08	28.02
1491.1	1521.1	27.79	27.64	27.57
1550.6	1580.6	28.33	28.33	28.41
1630.0	1660.0	28.06	28.02	28.03
1689.5	1719.5	27.81	27.78	27.78
1768.9	1798.9	27.56	27.52	27.50
1828.5	1858.5	27.37	27.34	27.33
1907.9	1937.9	26.98	26.99	26.99
1967.4	1997.4	26.65	26.68	26.73
2046.8	2076.8	27.48	27.66	27.86
2106.4	2136.4	29.86	30.00	30.14
2185.8	2215.8	28.32	28.48	28.53
2245.3	2275.3	27.44	27.62	27.70
2324.7	2354.7	28.44	28.73	28.97
2384.2	2414.2	29.57	29.95	30.23
2463.6	2493.6	30.58	30.90	31.25
2523.2	2553.2	31.06	31.32	31.82
2602.6	2632.6	31.40	31.61	32.20
2662.1	2692.1	31.78	32.04	32.66
2741.5	2771.5	32.23	32.48	33.19
2801.1	2831.1	32.62	32.87	33.58
2880.5	2910.5	32.80	33.03	33.58
2940.0	2970.0	32.26	32.41	32.73

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2700MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
320.0	350.0	1.76	1.85	1.88	350.0	46.96	46.96	45.72	10.0	1.64	1.74	1.81
379.5	409.5	1.80	1.89	1.91	409.5	32.79	32.18	31.60	70.5	1.66	1.78	1.86
439.1	469.1	1.84	1.94	1.96	469.1	30.49	30.49	29.96	130.9	1.70	1.82	1.90
498.6	528.6	1.89	1.98	2.04	528.6	24.14	23.81	23.81	191.4	1.74	1.85	1.91
558.2	588.2	1.94	2.01	2.05	588.2	18.90	18.70	18.50	251.8	1.82	1.92	1.98
617.7	647.7	2.01	2.07	2.11	647.7	13.09	12.99	12.80	312.3	1.95	2.03	2.09
677.3	707.3	2.07	2.13	2.17	707.3	8.72	8.60	8.51	372.7	2.06	2.13	2.18
736.8	766.8	2.13	2.18	2.22	766.8	5.41	5.33	5.17	433.2	2.12	2.18	2.22
796.4	826.4	2.18	2.22	2.25	826.4	4.14	4.10	3.72	513.8	2.22	2.27	2.30
855.9	885.9	2.23	2.26	2.28	885.9	5.12	5.14	4.95	574.2	2.26	2.30	2.32
935.3	965.3	2.26	2.27	2.28	965.3	8.60	8.68	8.72	654.8	2.25	2.27	2.28
994.8	1024.8	2.31	2.30	2.31	1024.8	11.69	11.77	11.77	715.3	2.17	2.17	2.18
1074.2	1104.2	2.29	2.28	2.28	1104.2	14.87	14.74	14.50	795.9	2.07	2.06	2.07
1133.8	1163.8	2.23	2.22	2.22	1163.8	16.56	16.41	15.96	856.3	1.97	1.95	1.96
1213.2	1243.2	2.15	2.12	2.12	1243.2	17.57	17.57	17.22	936.9	1.81	1.79	1.79
1272.7	1302.7	2.09	2.06	2.05	1302.7	16.72	16.56	16.11	997.4	1.67	1.65	1.65
1352.1	1382.1	1.98	1.95	1.94	1382.1	14.62	14.26	13.70	1078.0	1.51	1.49	1.49
1411.7	1441.7	1.90	1.87	1.86	1441.7	14.03	13.81	13.49	1138.4	1.40	1.38	1.38
1491.1	1521.1	1.78	1.74	1.73	1521.1	12.18	11.93	11.61	1219.0	1.28	1.26	1.27
1550.6	1580.6	1.62	1.60	1.60	1580.6	10.75	10.43	10.02	1279.5	1.20	1.20	1.23
1630.0	1660.0	1.52	1.51	1.52	1660.0	9.13	8.90	8.55	1360.1	1.16	1.20	1.24
1689.5	1719.5	1.45	1.45	1.46	1719.5	7.73	7.63	7.47	1420.5	1.18	1.25	1.30
1768.9	1798.9	1.39	1.41	1.43	1798.9	5.74	5.65	5.58	1501.1	1.25	1.34	1.39
1828.5	1858.5	1.37	1.39	1.42	1858.5	4.42	4.34	4.26	1561.6	1.33	1.43	1.48
1907.9	1937.9	1.36	1.40	1.43	1937.9	3.07	3.02	2.97	1642.2	1.45	1.55	1.61
1967.4	1997.4	1.37	1.41	1.45	1997.4	2.39	2.37	2.36	1702.6	1.55	1.65	1.72
2046.8	2076.8	1.43	1.47	1.51	2076.8	2.04	2.07	2.10	1783.2	1.67	1.77	1.84
2106.4	2136.4	1.51	1.56	1.60	2136.4	2.28	2.34	2.41	1843.7	1.76	1.87	1.93
2185.8	2215.8	1.61	1.66	1.70	2215.8	3.09	3.17	3.25	1924.3	1.88	1.99	2.05
2245.3	2275.3	1.70	1.75	1.79	2275.3	3.88	3.95	3.98	1984.7	1.99	2.08	2.15
2324.7	2354.7	1.84	1.90	1.95	2354.7	5.34	5.41	5.42	2065.3	2.09	2.18	2.24
2384.2	2414.2	1.98	2.05	2.10	2414.2	6.58	6.66	6.71	2125.8	2.18	2.26	2.32
2463.6	2493.6	2.10	2.18	2.23	2493.6	8.12	8.12	8.01	2206.4	2.26	2.34	2.39
2523.2	2553.2	2.19	2.26	2.32	2553.2	9.18	9.04	8.60	2266.8	2.32	2.38	2.42
2602.6	2632.6	2.33	2.40	2.46	2632.6	10.82	10.69	10.25	2347.4	2.38	2.43	2.47
2662.1	2692.1	2.46	2.53	2.58	2692.1	12.01	11.77	11.31	2407.9	2.52	2.57	2.62
2741.5	2771.5	2.60	2.67	2.72	2771.5	12.99	12.44	11.38	2488.5	2.71	2.77	2.81
2801.1	2831.1	2.75	2.81	2.86	2831.1	13.92	13.39	12.26	2548.9	2.86	2.92	2.96
2880.5	2910.5	2.97	3.02	3.07	2910.5	15.53	15.00	13.92	2629.5	3.16	3.25	3.33
2940.0	2970.0	3.17	3.22	3.27	2970.0	15.96	15.26	13.81	2690.0	3.03	3.17	3.29

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	22	21	24	41	39	48	60	63	69
1	-	19	+0	35	21	36	37	43	41	54	54	59
2	55	66	65	83	61	71	71	61	70	63	73	78
3	89	76	62	73	61	69	71	76	82	>84	80	>84
4	>90	>84	80	>84	76	>84	83	>84	>84	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	>84	>84	>84	>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: 2000 MHz; 2.00 dBm.
LO IN: 2030 MHz; +17.00 dBm
IF OUT: 30 MHz; -5.52 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	32	32	32	52	54	52	62	85	66
1	-	19	+0	33	22	38	38	44	45	56	58	62
2	35	58	52	58	55	62	54	50	61	51	69	68
3	59	58	42	55	40	54	48	57	60	68	58	71
4	81	70	82	73	75	68	69	76	84	72	78	83
5	>90	91	82	73	66	66	62	66	70	76	88	92
6	>90	86	>94	86	80	84	78	80	89	91	93	88
7	>90	>94	91	>94	94	85	77	77	72	79	83	86
8	>90	>94	>94	>94	>94	>94	86	>94	91	94	88	>94
9	>90	>94	>94	>94	>94	>94	>94	>94	87	86	83	91
10	>90	>94	>94	>94	>94	>94	>94	>94	90	>94	90	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2000 MHz; 12.00 dBm.
LO IN: 2030 MHz; +17.00 dBm
IF OUT: 30 MHz; 4.33 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.

REV. X3

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