

Frequency Mixer

HJK-ED12922/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=210MHz (dB)		
		@LO (dBm)		
		+13	+16	+19
240.1	450.1	11.00	10.64	9.25
260.5	470.5	8.93	8.60	8.32
280.8	490.8	8.16	8.05	7.99
301.2	511.2	7.69	7.65	7.68
341.9	551.9	7.11	7.18	7.29
362.2	572.2	7.13	7.26	7.42
402.9	612.9	6.86	7.03	7.22
423.3	633.3	6.90	7.10	7.31
464.0	674.0	7.05	7.28	7.53
484.3	694.3	7.09	7.33	7.59
525.0	735.0	7.03	7.26	7.52
545.4	755.4	7.05	7.27	7.53
586.1	796.1	7.29	7.48	7.71
606.4	816.4	7.22	7.38	7.58
647.1	857.1	7.45	7.63	7.82
667.5	877.5	7.50	7.64	7.80
708.2	918.2	7.36	7.41	7.49
728.5	938.5	7.31	7.34	7.40
769.2	979.2	7.20	7.15	7.14
789.6	999.6	7.15	7.08	7.04
830.3	1040.3	6.92	6.78	6.69
850.6	1060.6	6.94	6.77	6.64
891.3	1101.3	6.75	6.52	6.34
911.7	1121.7	6.68	6.42	6.22
952.4	1162.4	6.61	6.33	6.09
972.7	1182.7	6.53	6.23	5.99
1013.4	1223.4	6.48	6.19	5.96
1033.8	1243.8	6.50	6.22	5.99
1074.5	1284.5	6.47	6.20	5.98
1094.8	1304.8	6.52	6.26	6.06
1135.5	1345.5	6.74	6.53	6.40
1155.9	1365.9	6.83	6.64	6.53
1196.6	1406.6	7.07	6.94	6.88
1216.9	1426.9	7.34	7.22	7.19
1257.6	1467.6	7.73	7.65	7.64
1278.0	1488.0	7.95	7.89	7.91
1318.7	1528.7	8.72	8.71	8.76
1339.0	1549.0	9.11	9.12	9.21
1379.7	1589.7	9.82	9.89	10.02
1400.1	1610.1	10.36	10.42	10.61

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+13	+16	+19
240.1	450.1	11.81	12.60	15.57
260.5	470.5	16.44	18.50	21.48
280.8	490.8	18.39	21.09	23.44
301.2	511.2	19.19	21.51	23.46
341.9	551.9	19.84	21.97	23.90
362.2	572.2	19.91	21.98	24.11
402.9	612.9	20.04	22.00	24.29
423.3	633.3	20.55	22.49	24.80
464.0	674.0	20.78	22.88	25.22
484.3	694.3	21.41	23.37	25.78
525.0	735.0	21.73	23.73	26.21
545.4	755.4	22.11	24.09	26.54
586.1	796.1	23.15	24.93	27.45
606.4	816.4	23.74	25.57	28.02
647.1	857.1	24.79	26.73	29.14
667.5	877.5	25.27	27.39	29.99
708.2	918.2	26.57	29.11	31.64
728.5	938.5	26.56	28.96	31.66
769.2	979.2	27.22	29.56	32.33
789.6	999.6	27.39	30.04	32.65
830.3	1040.3	27.60	30.99	33.95
850.6	1060.6	27.45	30.84	34.22
891.3	1101.3	27.43	31.62	34.75
911.7	1121.7	27.44	31.56	35.50
952.4	1162.4	27.17	31.12	35.36
972.7	1182.7	26.84	30.48	34.80
1013.4	1223.4	26.36	29.29	33.98
1033.8	1243.8	25.82	28.38	32.59
1074.5	1284.5	24.70	26.89	29.96
1094.8	1304.8	24.34	26.48	29.13
1135.5	1345.5	23.04	25.47	28.44
1155.9	1365.9	23.37	25.90	28.77
1196.6	1406.6	24.10	26.71	29.72
1216.9	1426.9	24.27	26.81	29.91
1257.6	1467.6	24.22	26.86	30.00
1278.0	1488.0	24.68	27.42	30.42
1318.7	1528.7	25.35	28.47	31.58
1339.0	1549.0	25.63	29.34	33.05
1379.7	1589.7	26.00	30.70	36.58
1400.1	1610.1	25.69	30.34	39.43

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+20dBm (dB)		
		@LO (dBm)		
		+13	+16	+19
240.1	450.1	1.56	1.38	1.81
260.5	470.5	2.92	2.58	2.13
280.8	490.8	3.38	2.73	1.92
301.2	511.2	3.59	2.67	1.73
341.9	551.9	3.68	2.35	1.28
362.2	572.2	3.72	2.25	1.23
402.9	612.9	3.63	2.17	1.27
423.3	633.3	3.41	1.96	1.13
464.0	674.0	3.26	1.91	1.12
484.3	694.3	3.11	1.77	1.02
525.0	735.0	2.91	1.67	0.97
545.4	755.4	2.86	1.57	0.90
586.1	796.1	2.51	1.36	0.78
606.4	816.4	2.45	1.27	0.71
647.1	857.1	2.22	0.96	0.51
667.5	877.5	2.09	0.89	0.47
708.2	918.2	2.09	0.78	0.37
728.5	938.5	2.14	0.80	0.38
769.2	979.2	2.11	0.75	0.33
789.6	999.6	2.13	0.73	0.31
830.3	1040.3	2.35	0.83	0.31
850.6	1060.6	2.41	0.84	0.28
891.3	1101.3	2.40	0.90	0.27
911.7	1121.7	2.43	0.96	0.27
952.4	1162.4	2.65	1.11	0.30
972.7	1182.7	2.72	1.16	0.32
1013.4	1223.4	2.87	1.30	0.39
1033.8	1243.8	3.09	1.48	0.47
1074.5	1284.5	3.48	1.81	0.68
1094.8	1304.8	3.56	1.90	0.79
1135.5	1345.5	3.56	1.93	0.93
1155.9	1365.9	3.57	1.93	0.94
1196.6	1406.6	3.37	1.76	0.86
1216.9	1426.9	3.42	1.81	0.91
1257.6	1467.6	3.41	1.84	0.96
1278.0	1488.0	3.20	1.68	0.90
1318.7	1528.7	3.04	1.60	0.85
1339.0	1549.0	3.01	1.53	0.78
1379.7	1589.7	2.64	1.31	0.66
1400.1	1610.1	2.42	1.21	0.62

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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)=850MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=489.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1210.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+16			+16			+16
400.0	450.0	11.57	10.1	500.0	19.99	550.1	660.0	9.86
382.0	468.0	9.45	70.6	560.5	7.36	536.3	673.8	9.76
364.0	486.0	8.91	131.1	621.0	6.89	522.4	687.7	9.54
346.0	504.0	8.47	191.6	681.5	7.26	508.6	701.5	9.23
328.0	522.0	7.96	252.1	742.0	7.29	494.7	715.4	8.89
310.0	540.0	7.49	312.6	802.5	6.93	480.9	729.2	8.55
292.0	558.0	7.16	373.1	863.0	6.33	467.0	743.1	8.28
274.0	576.0	6.75	433.6	923.5	5.51	453.2	756.9	8.05
256.0	594.0	6.49	494.1	984.0	5.64	439.3	770.8	7.84
238.0	612.0	6.43	554.6	1044.5	6.18	425.5	784.6	7.77
220.0	630.0	6.31	615.1	1105.0	6.57	411.6	798.5	7.70
202.0	648.0	6.29	675.6	1165.5	6.85	397.8	812.3	7.61
178.0	672.0	6.43	736.2	1226.1	7.03	383.9	826.2	7.66
160.0	690.0	6.52	796.7	1286.6	7.08	370.1	840.0	7.69
136.0	714.0	6.76	857.2	1347.1	7.38	356.3	853.8	7.73
118.0	732.0	7.03	917.7	1407.6	7.55	342.4	867.7	7.87
94.0	756.0	7.47	978.2	1468.1	7.77	328.6	881.5	7.96
76.0	774.0	7.86	1038.7	1528.6	7.99	314.7	895.4	7.99
52.0	798.0	8.67	1099.2	1589.1	8.12	300.9	909.2	8.14
34.0	816.0	9.95	1159.7	1649.6	8.18	287.0	923.1	8.26
10.0	840.0	17.48	1220.2	1710.1	8.08	273.2	936.9	8.34
78.3	928.3	8.69	1280.7	1770.6	7.86	259.3	950.8	8.50
214.9	1064.9	6.64	1341.2	1831.1	7.77	245.5	964.6	8.69
317.4	1167.4	5.58	1401.7	1891.6	7.71	231.6	978.5	8.83
454.0	1304.0	6.27	1462.2	1952.1	7.80	217.8	992.3	8.92
556.5	1406.5	6.63	1522.7	2012.6	7.89	203.9	1006.2	9.08
693.1	1543.1	7.37	1583.2	2073.1	7.94	190.1	1020.0	9.20
795.5	1645.5	7.98	1643.7	2133.6	8.01	176.3	1033.8	9.24
932.2	1782.2	8.72	1704.2	2194.1	8.14	162.4	1047.7	9.41
1034.6	1884.6	8.58	1764.7	2254.6	8.21	148.6	1061.5	9.48
1171.2	2021.2	8.43	1825.2	2315.1	8.26	134.7	1075.4	9.51
1273.7	2123.7	8.40	1885.7	2375.6	8.35	120.9	1089.2	9.62
1410.3	2260.3	8.26	1946.2	2436.1	8.41	107.0	1103.1	9.68
1512.8	2362.8	8.28	2006.7	2496.6	8.53	93.2	1116.9	9.70
1649.4	2499.4	8.44	2067.2	2557.1	8.75	79.3	1130.8	9.80
1751.8	2601.8	8.77	2127.7	2617.6	8.92	65.5	1144.6	9.98
1888.5	2738.5	8.82	2208.4	2698.3	9.12	51.6	1158.5	10.37
1990.9	2840.9	8.98	2268.9	2758.8	9.36	37.8	1172.3	11.35
2127.5	2977.5	9.55	2349.6	2839.5	9.86	23.9	1186.2	13.67
2230.0	3080.0	10.13	2410.1	2900.0	10.12	10.1	1200.0	20.39

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Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+13	+16	+19	+13	+16	+19
450.1	48.23	50.20	57.84	35.60	36.66	38.73
470.5	53.88	54.64	56.32	37.06	37.89	38.87
490.8	53.82	55.72	57.70	37.41	38.23	39.03
511.2	55.90	59.10	61.77	37.12	37.88	38.64
551.9	56.64	60.56	63.30	36.47	37.07	37.77
572.2	55.83	59.39	61.71	35.79	36.30	36.92
612.9	55.12	57.61	58.76	33.93	34.32	34.79
633.3	55.12	57.04	57.72	33.25	33.62	34.02
674.0	53.62	54.17	54.12	31.66	31.95	32.32
694.3	52.74	52.89	52.85	30.97	31.26	31.64
735.0	50.70	50.59	50.31	30.10	30.37	30.73
755.4	49.39	48.89	48.41	29.88	30.01	30.34
796.1	47.98	47.30	46.72	29.47	29.68	30.02
816.4	47.68	46.64	45.87	29.53	29.71	30.06
857.1	50.01	48.71	47.97	29.63	29.75	30.22
877.5	50.02	49.43	48.84	29.63	29.83	30.16
918.2	47.07	46.64	46.10	29.58	29.68	29.94
938.5	46.53	46.17	45.73	29.49	29.67	29.92
979.2	44.49	44.05	43.48	29.53	29.72	29.97
999.6	43.91	43.49	43.04	29.55	29.76	30.08
1040.3	42.53	42.20	41.88	29.70	29.93	30.25
1060.6	42.01	41.68	41.32	29.65	29.89	30.22
1101.3	41.41	41.18	40.89	29.76	30.03	30.39
1121.7	41.10	40.99	40.77	29.69	30.07	30.48
1162.4	40.64	40.72	40.66	29.62	29.97	30.37
1182.7	40.12	40.22	40.20	29.62	29.90	30.31
1223.4	39.70	39.84	39.95	29.68	29.90	30.25
1243.8	39.08	39.29	39.43	29.82	30.03	30.32
1284.5	38.33	38.59	38.79	30.13	30.27	30.45
1304.8	38.29	38.66	38.95	30.60	30.75	30.98
1345.5	41.11	41.11	41.21	32.12	32.31	32.59
1365.9	42.28	42.06	41.92	32.26	32.43	32.65
1406.6	42.78	42.64	42.42	32.48	32.77	32.95
1426.9	42.81	42.57	42.50	32.70	32.83	33.16
1467.6	42.06	41.89	41.82	33.22	33.32	33.58
1488.0	41.72	41.48	41.42	33.50	33.55	33.81
1528.7	40.68	40.48	40.41	33.92	34.02	34.24
1549.0	40.27	39.95	39.79	34.24	34.22	34.38
1589.7	39.37	39.00	38.77	34.64	34.58	34.64
1610.1	38.53	38.15	37.81	34.69	34.62	34.60

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+13	+16	+19
240.1	450.1	17.81	17.03	16.61
260.5	470.5	24.78	25.78	26.36
280.8	490.8	29.69	30.81	32.04
301.2	511.2	31.70	32.63	33.47
341.9	551.9	37.22	39.29	40.76
362.2	572.2	35.87	36.68	36.18
402.9	612.9	39.87	40.54	39.50
423.3	633.3	48.86	50.31	50.91
464.0	674.0	51.31	48.54	48.91
484.3	694.3	49.41	48.36	50.61
525.0	735.0	41.18	40.57	40.69
545.4	755.4	38.30	37.60	37.30
586.1	796.1	35.24	34.64	34.36
606.4	816.4	33.84	33.18	32.68
647.1	857.1	33.36	33.15	33.01
667.5	877.5	33.72	33.82	34.01
708.2	918.2	33.12	33.32	33.57
728.5	938.5	32.59	32.75	32.87
769.2	979.2	31.65	31.84	32.00
789.6	999.6	31.55	31.84	32.25
830.3	1040.3	31.18	31.55	32.00
850.6	1060.6	30.90	31.27	31.61
891.3	1101.3	30.76	31.11	31.54
911.7	1121.7	30.59	30.91	31.30
952.4	1162.4	30.54	30.75	31.02
972.7	1182.7	30.69	30.84	31.11
1013.4	1223.4	30.88	30.93	31.11
1033.8	1243.8	30.96	30.89	30.90
1074.5	1284.5	31.13	30.98	30.85
1094.8	1304.8	31.33	31.27	31.27
1135.5	1345.5	32.87	33.22	33.91
1155.9	1365.9	33.51	33.86	34.35
1196.6	1406.6	34.20	34.53	35.06
1216.9	1426.9	34.60	35.00	35.53
1257.6	1467.6	35.37	36.11	36.70
1278.0	1488.0	35.56	36.50	37.25
1318.7	1528.7	35.32	36.87	38.12
1339.0	1549.0	35.02	36.74	38.25
1379.7	1589.7	34.39	36.12	37.84
1400.1	1610.1	33.91	35.48	37.12

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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=1410MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+13	+16	+19		+13	+16	+19		+13	+16	+19
240.1	450.1	3.49	3.43	3.24	450.1	11.61	11.69	10.02	10.1	57.91	56.04	56.04
260.5	470.5	3.13	3.10	3.07	470.5	12.26	12.35	11.69	50.1	5.81	5.52	5.25
280.8	490.8	2.69	2.69	2.71	490.8	12.01	12.01	11.85	90.1	2.01	1.91	1.84
301.2	511.2	2.40	2.42	2.45	511.2	11.38	11.38	11.31	130.1	1.11	1.15	1.22
341.9	551.9	2.04	2.12	2.19	551.9	9.90	9.85	9.79	170.1	1.45	1.56	1.67
362.2	572.2	1.92	2.02	2.11	572.2	9.23	9.18	9.08	210.1	1.85	2.01	2.15
402.9	612.9	1.75	1.88	1.99	612.9	7.83	7.80	7.70	250.1	2.21	2.39	2.56
423.3	633.3	1.74	1.88	2.01	633.3	7.25	7.20	7.11	290.1	2.46	2.66	2.86
464.0	674.0	1.70	1.85	1.99	674.0	6.24	6.19	6.15	330.1	2.56	2.76	2.95
484.3	694.3	1.68	1.83	1.96	694.3	5.79	5.74	5.68	370.1	2.68	2.86	3.04
525.0	735.0	1.68	1.80	1.92	735.0	5.03	4.99	4.93	410.1	2.63	2.78	2.95
545.4	755.4	1.67	1.78	1.89	755.4	4.72	4.68	4.64	450.1	2.65	2.77	2.90
586.1	796.1	1.70	1.77	1.85	796.1	4.13	4.09	4.05	490.1	2.60	2.69	2.79
606.4	816.4	1.73	1.78	1.85	816.4	3.89	3.85	3.80	530.1	2.55	2.57	2.63
647.1	857.1	1.80	1.83	1.88	857.1	3.54	3.51	3.48	570.1	2.61	2.62	2.65
667.5	877.5	1.82	1.84	1.88	877.5	3.40	3.38	3.35	590.1	2.59	2.57	2.57
708.2	918.2	1.90	1.89	1.89	918.2	3.20	3.19	3.18	630.1	2.59	2.53	2.51
728.5	938.5	1.96	1.92	1.91	938.5	3.13	3.12	3.11	650.1	2.68	2.61	2.57
769.2	979.2	2.10	2.04	2.00	979.2	3.02	3.02	3.02	690.1	2.67	2.57	2.51
789.6	999.6	2.17	2.09	2.04	999.6	3.02	3.02	3.03	710.1	2.78	2.68	2.60
830.3	1040.3	2.35	2.24	2.15	1040.3	3.08	3.10	3.11	750.1	2.86	2.74	2.65
850.6	1060.6	2.44	2.32	2.21	1060.6	3.13	3.15	3.17	770.1	2.96	2.84	2.75
891.3	1101.3	2.62	2.48	2.35	1101.3	3.33	3.36	3.40	810.1	3.06	2.94	2.84
911.7	1121.7	2.74	2.60	2.47	1121.7	3.46	3.50	3.54	830.1	3.19	3.07	2.96
952.4	1162.4	2.99	2.83	2.68	1162.4	3.75	3.79	3.82	870.1	3.33	3.21	3.11
972.7	1182.7	3.07	2.91	2.75	1182.7	3.94	3.99	4.05	890.1	3.34	3.23	3.13
1013.4	1223.4	3.22	3.06	2.90	1223.4	4.33	4.37	4.43	930.1	3.63	3.52	3.43
1033.8	1243.8	3.30	3.13	2.97	1243.8	4.47	4.52	4.55	950.1	3.56	3.47	3.37
1074.5	1284.5	3.37	3.21	3.05	1284.5	4.82	4.86	4.91	990.1	3.75	3.66	3.57
1094.8	1304.8	3.40	3.24	3.08	1304.8	4.89	4.91	4.93	1010.1	3.76	3.68	3.60
1135.5	1345.5	3.36	3.19	3.03	1345.5	5.13	5.13	5.14	1050.1	3.74	3.67	3.61
1155.9	1365.9	3.42	3.26	3.13	1365.9	5.54	5.58	5.61	1070.1	3.71	3.65	3.59
1196.6	1406.6	3.62	3.52	3.43	1406.6	6.09	6.15	6.19	1110.1	3.73	3.70	3.66
1216.9	1426.9	3.82	3.72	3.65	1426.9	6.21	6.26	6.28	1130.1	3.65	3.63	3.60
1257.6	1467.6	4.33	4.28	4.25	1467.6	6.46	6.53	6.58	1170.1	3.47	3.47	3.47
1278.0	1488.0	4.57	4.56	4.56	1488.0	6.51	6.58	6.63	1190.1	3.42	3.44	3.45
1318.7	1528.7	5.28	5.33	5.38	1528.7	6.46	6.49	6.46	1230.1	3.14	3.18	3.22
1339.0	1549.0	5.85	5.95	6.03	1549.0	6.44	6.49	6.49	1250.1	3.02	3.08	3.13
1379.7	1589.7	7.11	7.31	7.47	1589.7	6.24	6.28	6.30	1290.1	2.73	2.80	2.88
1400.1	1610.1	7.76	8.05	8.23	1610.1	6.07	6.09	6.05	1310.1	2.57	2.65	2.73

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	25	18	27	31	32	32	54	41	46
1	-	25	+0	26	14	39	22	41	49	56	48	49
2	63	56	60	52	63	55	63	56	66	80	73	70
3	>90	>83	64	>83	64	80	76	82	>83	>83	>83	>83
4	>90	>83	>83	>83	80	>83	>83	>83	81	>83	>83	>83
5	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
6	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 850 MHz; 0.00 dBm.
LO IN: 1060 MHz; +16.00 dBm
IF OUT: 210 MHz; -6.72 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	34	28	37	41	43	41	59	49	63
1	-	25	+0	27	14	39	23	41	46	57	47	52
2	43	45	50	42	54	45	52	47	57	73	67	63
3	65	66	43	66	43	60	61	63	58	78	70	76
4	90	74	75	71	76	66	77	74	74	77	77	81
5	>90	86	86	80	79	>93	75	79	81	78	86	85
6	>90	>93	>93	>93	>93	>93	>93	93	>93	>93	90	>93
7	>90	>93	93	>93	88	>93	92	92	>93	>93	>93	>93
8	>90	>93	>93	>93	91	>93	>93	>93	>93	>93	>93	>93
9	>90	>93	>93	>93	>93	>93	>93	>93	91	>93	>93	>93
10	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 850 MHz; 10.00 dBm.
LO IN: 1060 MHz; +16.00 dBm
IF OUT: 210 MHz; 3.2 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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