

Frequency Mixer

HJK-ED12738/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
280.1	310.1	10.55	10.39	10.27
340.5	370.5	8.30	8.07	7.91
401.0	431.0	7.22	7.05	6.95
461.4	491.4	6.90	6.81	6.76
542.0	572.0	6.65	6.59	6.56
602.5	632.5	6.38	6.33	6.31
683.1	713.1	6.33	6.28	6.27
743.5	773.5	6.42	6.38	6.37
824.1	854.1	6.49	6.44	6.42
884.5	914.5	6.53	6.48	6.45
965.1	995.1	6.84	6.78	6.75
1025.6	1055.6	7.06	7.01	6.97
1106.2	1136.2	7.36	7.31	7.28
1166.6	1196.6	7.58	7.53	7.51
1247.2	1277.2	7.81	7.77	7.75
1307.7	1337.7	7.90	7.85	7.81
1388.2	1418.2	8.01	7.96	7.93
1448.7	1478.7	8.13	8.09	8.07
1529.3	1559.3	7.96	7.90	7.87
1589.7	1619.7	7.81	7.73	7.68
1670.3	1700.3	7.92	7.83	7.79
1730.8	1760.8	7.91	7.83	7.80
1811.4	1841.4	7.70	7.60	7.55
1871.8	1901.8	7.55	7.43	7.37
1952.4	1982.4	7.43	7.28	7.21
2012.8	2042.8	7.32	7.17	7.08
2093.4	2123.4	7.32	7.16	7.07
2153.9	2183.9	7.39	7.22	7.13
2234.5	2264.5	7.46	7.31	7.25
2294.9	2324.9	7.59	7.47	7.43
2375.5	2405.5	7.90	7.83	7.83
2436.0	2466.0	8.15	8.11	8.14
2516.5	2546.5	8.33	8.34	8.40
2577.0	2607.0	8.41	8.44	8.52
2657.6	2687.6	8.75	8.79	8.88
2718.0	2748.0	9.11	9.15	9.25
2798.6	2828.6	9.44	9.42	9.48
2859.1	2889.1	9.72	9.55	9.53
2939.7	2969.7	10.77	10.27	10.11
3000.1	3030.1	11.84	11.06	10.75

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
280.1	310.1	15.90	16.53	18.31
340.5	370.5	18.98	21.36	23.63
401.0	431.0	20.55	22.92	25.10
461.4	491.4	21.65	23.64	25.72
542.0	572.0	22.36	24.46	26.58
602.5	632.5	23.34	25.62	27.85
683.1	713.1	23.71	25.92	28.31
743.5	773.5	24.31	26.79	29.40
824.1	854.1	24.16	26.72	29.47
884.5	914.5	23.02	25.59	28.08
965.1	995.1	22.81	25.37	27.90
1025.6	1055.6	22.61	25.18	27.80
1106.2	1136.2	22.32	25.04	27.72
1166.6	1196.6	22.42	25.11	27.76
1247.2	1277.2	22.82	25.55	28.48
1307.7	1337.7	23.97	27.17	30.11
1388.2	1418.2	22.96	25.90	29.23
1448.7	1478.7	22.20	25.09	28.16
1529.3	1559.3	21.48	24.10	27.31
1589.7	1619.7	21.57	23.77	26.75
1670.3	1700.3	22.20	24.71	27.38
1730.8	1760.8	22.27	25.17	28.10
1811.4	1841.4	21.99	24.80	28.00
1871.8	1901.8	20.66	23.13	26.03
1952.4	1982.4	20.31	22.77	25.51
2012.8	2042.8	20.11	22.68	25.50
2093.4	2123.4	19.53	22.23	24.93
2153.9	2183.9	18.99	21.60	24.41
2234.5	2264.5	19.30	22.02	24.71
2294.9	2324.9	19.95	22.95	26.00
2375.5	2405.5	20.22	23.26	26.39
2436.0	2466.0	20.57	23.56	26.89
2516.5	2546.5	22.16	25.29	29.00
2577.0	2607.0	22.97	26.34	30.40
2657.6	2687.6	23.72	27.26	31.70
2718.0	2748.0	23.57	27.59	31.97
2798.6	2828.6	21.58	25.19	29.00
2859.1	2889.1	18.39	22.16	25.45
2939.7	2969.7	14.87	19.01	22.45
3000.1	3030.1	13.54	16.87	21.21

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
280.1	310.1	3.96	2.47	1.06
340.5	370.5	3.76	2.26	1.02
401.0	431.0	3.20	1.67	0.73
461.4	491.4	2.29	1.07	0.51
542.0	572.0	1.77	0.80	0.41
602.5	632.5	1.62	0.69	0.34
683.1	713.1	1.63	0.69	0.34
743.5	773.5	1.62	0.63	0.31
824.1	854.1	1.70	0.61	0.30
884.5	914.5	1.70	0.67	0.33
965.1	995.1	1.55	0.66	0.34
1025.6	1055.6	1.45	0.63	0.33
1106.2	1136.2	1.27	0.62	0.33
1166.6	1196.6	1.22	0.61	0.34
1247.2	1277.2	1.18	0.61	0.33
1307.7	1337.7	1.11	0.56	0.29
1388.2	1418.2	1.18	0.60	0.31
1448.7	1478.7	1.32	0.67	0.36
1529.3	1559.3	1.44	0.74	0.41
1589.7	1619.7	1.64	0.82	0.43
1670.3	1700.3	1.93	0.92	0.49
1730.8	1760.8	2.09	0.94	0.45
1811.4	1841.4	2.56	1.23	0.55
1871.8	1901.8	3.11	1.58	0.71
1952.4	1982.4	3.59	1.84	0.82
2012.8	2042.8	3.88	2.01	0.86
2093.4	2123.4	4.31	2.37	1.03
2153.9	2183.9	4.61	2.65	1.15
2234.5	2264.5	4.30	2.36	1.11
2294.9	2324.9	3.96	2.13	0.95
2375.5	2405.5	3.82	2.00	0.89
2436.0	2466.0	3.38	1.70	0.75
2516.5	2546.5	2.53	1.19	0.52
2577.0	2607.0	2.17	0.98	0.42
2657.6	2687.6	2.05	0.86	0.36
2718.0	2748.0	2.23	0.94	0.37
2798.6	2828.6	3.48	1.57	0.61
2859.1	2889.1	5.14	2.97	1.36
2939.7	2969.7	6.69	4.75	2.82
3000.1	3030.1	7.28	5.72	3.61

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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)=1170MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=585.2MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1758.5MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
890.0	280.0	10.44	10.0	595.2	6.43	1490.0	268.5	10.92
850.6	319.4	8.34	70.6	655.8	6.38	1449.5	309.0	8.64
811.2	358.8	7.65	131.1	716.3	6.69	1408.9	349.6	7.39
771.8	398.2	7.33	191.7	776.9	7.12	1368.4	390.1	6.96
719.3	450.7	7.08	252.2	837.4	7.26	1327.8	430.7	6.87
679.9	490.1	7.08	312.8	898.0	7.44	1287.3	471.2	6.70
627.3	542.7	7.54	373.3	958.5	7.67	1246.7	511.8	6.59
587.9	582.1	8.11	433.9	1019.1	7.63	1206.2	552.3	6.53
535.4	634.6	8.61	494.4	1079.6	7.57	1165.6	592.9	6.55
496.0	674.0	8.41	555.0	1140.2	7.53	1125.1	633.4	6.51
443.4	726.6	7.95	615.5	1200.7	7.60	1084.5	674.0	6.50
404.0	766.0	7.56	676.1	1261.3	7.51	1044.0	714.5	6.48
351.5	818.5	7.19	736.6	1321.8	7.30	1003.4	755.1	6.57
312.1	857.9	7.06	797.2	1382.4	7.16	962.9	795.6	6.78
259.6	910.4	6.90	857.7	1442.9	7.03	922.3	836.2	7.11
220.1	949.9	6.92	918.3	1503.5	7.03	881.8	876.7	7.49
167.6	1002.4	6.96	978.8	1564.0	7.04	841.2	917.3	7.55
128.2	1041.8	7.11	1039.4	1624.6	7.06	800.7	957.8	7.17
75.7	1094.3	7.18	1099.9	1685.1	7.09	760.1	998.4	6.85
36.3	1133.7	7.24	1160.5	1745.7	7.34	719.6	1038.9	6.57
37.2	1207.2	7.57	1221.0	1806.2	7.35	679.0	1079.5	6.44
118.7	1288.7	7.86	1281.6	1866.8	7.29	638.5	1120.0	6.34
227.3	1397.3	7.92	1342.1	1927.3	7.31	597.9	1160.6	6.24
308.8	1478.8	7.85	1402.7	1987.9	7.43	557.4	1201.1	6.21
417.5	1587.5	7.54	1443.0	2028.2	7.51	516.8	1241.7	6.19
499.0	1669.0	7.33	1503.6	2088.8	7.73	476.3	1282.2	6.32
607.6	1777.6	7.41	1543.9	2129.1	7.80	435.8	1322.7	6.38
689.1	1859.1	7.45	1604.5	2189.7	8.12	395.2	1363.3	6.56
797.8	1967.8	7.55	1644.9	2230.1	8.27	354.7	1403.8	6.69
879.3	2049.3	7.71	1705.4	2290.6	8.62	314.1	1444.4	6.79
987.9	2157.9	7.82	1745.8	2331.0	8.92	273.6	1484.9	6.90
1069.4	2239.4	7.90	1806.3	2391.5	9.41	253.3	1505.2	7.02
1178.1	2348.1	8.10	1846.7	2431.9	9.75	212.7	1545.8	7.15
1259.6	2429.6	8.25	1907.2	2492.4	9.88	192.5	1566.0	7.19
1368.2	2538.2	8.51	1947.6	2532.8	10.26	151.9	1606.6	7.28
1449.7	2619.7	8.67	2008.2	2593.4	10.70	131.6	1626.9	7.28
1558.4	2728.4	9.11	2048.5	2633.7	11.12	91.1	1667.4	7.40
1639.9	2809.9	9.45	2109.1	2694.3	11.46	70.8	1687.7	7.58
1748.5	2918.5	10.06	2149.4	2734.6	11.74	30.3	1728.2	7.76
1830.0	3000.0	10.76	2210.0	2795.2	12.04	10.0	1748.5	7.65

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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)		
	+14	+17	+20	+14	+17	+20
310.1	59.09	60.11	61.16	44.08	44.10	44.22
370.5	55.58	56.67	57.25	41.09	41.13	41.21
431.0	52.30	52.58	52.83	38.51	38.46	38.53
491.4	50.41	50.68	50.96	36.76	36.85	36.90
572.0	52.80	53.67	54.41	35.27	35.22	35.29
632.5	50.43	50.81	51.02	34.81	34.78	34.80
713.1	40.82	40.69	40.55	36.48	36.68	36.83
773.5	43.26	43.33	43.42	35.25	35.35	35.47
854.1	44.92	44.99	45.00	33.35	33.27	33.44
914.5	44.89	45.07	45.17	31.96	31.84	31.81
995.1	44.31	44.58	44.63	29.79	29.72	29.62
1055.6	43.74	43.98	43.99	28.32	28.24	28.15
1136.2	44.48	44.63	44.60	26.51	26.42	26.28
1196.6	45.64	45.03	44.44	25.50	25.42	25.35
1277.2	39.48	39.05	38.82	24.35	24.31	24.31
1337.7	37.43	37.08	36.90	23.39	23.29	23.32
1418.2	36.54	36.25	36.00	22.53	22.53	22.53
1478.7	39.56	39.45	39.49	22.55	22.62	22.76
1559.3	37.51	37.29	37.21	22.50	22.62	22.80
1619.7	36.72	36.41	36.19	22.63	22.69	22.75
1700.3	33.57	33.10	32.77	23.59	23.70	23.89
1760.8	32.53	32.17	31.92	24.44	24.56	24.74
1841.4	32.96	32.80	32.58	25.13	25.40	25.55
1901.8	33.14	32.98	32.75	25.81	26.06	26.20
1982.4	33.67	33.51	33.46	26.82	27.05	27.31
2042.8	34.06	33.83	33.79	27.68	27.84	28.12
2123.4	34.71	34.53	34.43	28.75	28.96	29.18
2183.9	35.31	35.19	35.13	29.46	29.72	29.98
2264.5	35.89	35.78	35.97	30.31	30.59	31.02
2324.9	36.94	36.90	37.01	30.95	31.31	31.74
2405.5	39.21	39.20	39.30	31.16	31.41	31.74
2466.0	40.58	40.74	40.85	30.83	31.03	31.14
2546.5	40.29	40.65	40.84	29.40	29.60	29.57
2607.0	39.19	39.49	39.64	27.96	28.14	28.06
2687.6	37.83	38.07	38.11	26.15	26.30	26.18
2748.0	37.33	37.49	37.45	25.53	25.67	25.56
2828.6	37.08	36.90	37.05	25.89	25.75	25.93
2889.1	37.11	36.90	37.01	26.68	26.51	26.69
2969.7	37.29	37.03	37.08	27.99	27.83	27.98
3030.1	37.23	37.20	36.97	28.79	28.85	28.76

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
280.1	310.1	17.12	16.39	15.94
340.5	370.5	20.50	20.24	20.04
401.0	431.0	23.21	23.04	22.93
461.4	491.4	25.51	25.39	25.32
542.0	572.0	28.51	28.49	28.50
602.5	632.5	29.63	29.51	29.37
683.1	713.1	31.30	31.22	31.20
743.5	773.5	33.59	33.85	34.10
824.1	854.1	36.39	36.74	36.85
884.5	914.5	37.44	37.87	38.24
965.1	995.1	37.48	38.15	38.73
1025.6	1055.6	35.68	35.94	35.85
1106.2	1136.2	34.73	35.00	35.10
1166.6	1196.6	34.07	34.27	34.26
1247.2	1277.2	33.13	33.14	32.65
1307.7	1337.7	33.40	33.83	33.93
1388.2	1418.2	31.51	31.56	31.44
1448.7	1478.7	29.43	29.42	29.46
1529.3	1559.3	28.99	29.00	29.05
1589.7	1619.7	29.31	29.42	29.58
1670.3	1700.3	29.46	29.65	29.92
1730.8	1760.8	30.38	30.68	31.02
1811.4	1841.4	31.49	32.11	32.86
1871.8	1901.8	31.47	31.94	32.49
1952.4	1982.4	32.41	33.18	34.03
2012.8	2042.8	33.00	33.86	34.87
2093.4	2123.4	33.98	35.00	35.99
2153.9	2183.9	34.56	35.47	36.47
2234.5	2264.5	35.02	35.62	36.08
2294.9	2324.9	35.05	35.46	35.61
2375.5	2405.5	34.34	34.53	34.56
2436.0	2466.0	33.78	33.78	33.67
2516.5	2546.5	32.61	32.42	32.17
2577.0	2607.0	31.80	31.61	31.38
2657.6	2687.6	31.29	31.09	30.94
2718.0	2748.0	31.28	31.12	30.95
2798.6	2828.6	31.73	31.49	31.30
2859.1	2889.1	32.30	31.91	31.67
2939.7	2969.7	33.33	32.65	32.22
3000.1	3030.1	34.23	33.25	32.56

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=1758.5MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
280.1	310.1	5.54	5.51	5.47	310.1	5.34	5.33	5.33	10.1	2.99	3.15	3.30
340.5	370.5	3.86	3.83	3.81	370.5	4.95	4.95	4.93	50.6	2.81	2.97	3.12
401.0	431.0	3.17	3.17	3.18	431.0	4.60	4.60	4.59	91.0	2.75	2.91	3.06
461.4	491.4	2.80	2.82	2.86	491.4	4.46	4.46	4.45	131.5	2.59	2.73	2.87
542.0	572.0	2.52	2.57	2.62	572.0	4.74	4.73	4.73	172.0	2.58	2.72	2.85
602.5	632.5	2.39	2.45	2.51	632.5	5.23	5.22	5.20	212.5	2.38	2.50	2.61
683.1	713.1	2.23	2.29	2.34	713.1	5.89	5.85	5.81	252.9	2.36	2.48	2.59
743.5	773.5	2.14	2.19	2.24	773.5	6.42	6.39	6.39	293.4	2.16	2.26	2.36
824.1	854.1	2.08	2.12	2.16	854.1	6.63	6.63	6.61	333.9	2.14	2.23	2.32
884.5	914.5	2.20	2.23	2.26	914.5	6.53	6.51	6.46	374.3	1.97	2.06	2.14
965.1	995.1	2.46	2.49	2.51	995.1	6.09	6.05	6.01	414.8	1.90	1.97	2.04
1025.6	1055.6	2.62	2.64	2.66	1055.6	5.46	5.44	5.42	455.3	1.78	1.84	1.90
1106.2	1136.2	2.82	2.84	2.86	1136.2	4.48	4.47	4.46	495.7	1.68	1.73	1.77
1166.6	1196.6	2.90	2.92	2.95	1196.6	3.77	3.75	3.73	536.2	1.63	1.67	1.71
1247.2	1277.2	2.92	2.92	2.93	1277.2	3.04	3.03	3.02	576.7	1.54	1.56	1.59
1307.7	1337.7	2.94	2.95	2.95	1337.7	2.54	2.54	2.53	617.2	1.55	1.56	1.58
1388.2	1418.2	2.84	2.86	2.87	1418.2	2.08	2.08	2.08	657.6	1.48	1.48	1.49
1448.7	1478.7	2.81	2.82	2.84	1478.7	1.95	1.96	1.96	698.1	1.53	1.52	1.52
1529.3	1559.3	2.59	2.59	2.60	1559.3	2.08	2.09	2.10	738.6	1.50	1.48	1.47
1589.7	1619.7	2.39	2.40	2.40	1619.7	2.37	2.38	2.39	779.0	1.57	1.54	1.52
1670.3	1700.3	2.07	2.08	2.08	1700.3	2.86	2.86	2.85	819.5	1.56	1.53	1.51
1730.8	1760.8	1.92	1.93	1.94	1760.8	3.48	3.48	3.50	860.0	1.61	1.58	1.55
1811.4	1841.4	1.76	1.77	1.78	1841.4	4.35	4.36	4.38	900.5	1.63	1.60	1.56
1871.8	1901.8	1.62	1.64	1.66	1901.8	5.06	5.03	4.98	940.9	1.64	1.60	1.56
1952.4	1982.4	1.48	1.50	1.53	1982.4	6.01	5.97	5.85	981.4	1.69	1.65	1.61
2012.8	2042.8	1.43	1.47	1.50	2042.8	6.66	6.66	6.63	1021.9	1.64	1.60	1.57
2093.4	2123.4	1.41	1.46	1.51	2123.4	7.34	7.28	7.20	1062.3	1.70	1.66	1.62
2153.9	2183.9	1.43	1.49	1.55	2183.9	7.83	7.66	7.34	1123.0	1.66	1.62	1.59
2234.5	2264.5	1.52	1.60	1.67	2264.5	8.01	7.87	7.66	1163.5	1.62	1.58	1.55
2294.9	2324.9	1.65	1.74	1.82	2324.9	7.90	7.83	7.70	1224.2	1.59	1.56	1.53
2375.5	2405.5	1.89	1.99	2.09	2405.5	7.56	7.44	7.25	1264.7	1.58	1.57	1.55
2436.0	2466.0	2.09	2.20	2.31	2466.0	6.97	6.86	6.66	1325.4	1.53	1.54	1.54
2516.5	2546.5	2.39	2.51	2.63	2546.5	5.65	5.59	5.49	1365.9	1.57	1.60	1.61
2577.0	2607.0	2.60	2.73	2.86	2607.0	4.46	4.43	4.34	1426.6	1.66	1.72	1.76
2657.6	2687.6	2.91	3.05	3.19	2687.6	3.14	3.11	3.04	1467.0	1.78	1.87	1.93
2718.0	2748.0	3.17	3.31	3.47	2748.0	2.78	2.77	2.74	1527.7	2.03	2.15	2.25
2798.6	2828.6	3.43	3.60	3.75	2828.6	3.42	3.41	3.40	1568.2	2.25	2.40	2.53
2859.1	2889.1	3.51	3.67	3.82	2889.1	4.45	4.39	4.32	1628.9	2.61	2.81	3.00
2939.7	2969.7	3.86	3.99	4.14	2969.7	6.09	5.95	5.74	1669.4	2.80	3.02	3.24
3000.1	3030.1	4.24	4.33	4.48	3030.1	7.38	7.28	7.14	1730.1	3.01	3.24	3.47

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	29	18	27	25	44	30	42	41	40
1	-	28	+0	35	18	45	29	49	31	36	33	47
2	63	64	54	59	65	57	57	58	58	61	59	65
3	>90	>82	60	73	58	72	61	80	65	77	65	67
4	>90	>82	>82	>82	82	>82	>82	>82	>82	>82	>82	>82
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: 1170 MHz; 0.00 dBm.
LO IN: 1200 MHz; +17.00 dBm
IF OUT: 30 MHz; -7.8 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	36	28	41	36	46	45	49	61	51
1	-	28	+0	37	19	46	30	51	33	39	36	53
2	44	56	45	51	52	48	50	51	53	54	56	59
3	67	65	42	56	40	56	44	64	48	63	49	53
4	89	77	70	69	68	64	70	68	70	69	67	74
5	>90	79	70	81	65	71	62	74	63	76	64	74
6	>90	89	86	>92	88	90	82	83	89	86	85	84
7	>90	>92	90	>92	87	>92	81	85	78	88	79	90
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
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: 1170 MHz; 10.00 dBm.
LO IN: 1200 MHz; +17.00 dBm
IF OUT: 30 MHz; 2.01 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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