

Frequency Mixer

ADE-20H

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
850.1	880.1	11.47	10.47	9.45	850.1	880.1	21.87	20.37	25.94	850.1	880.1	-0.28	-0.22	0.07
930.4	960.4	10.46	9.36	8.59	930.4	960.4	19.41	18.76	22.84	930.4	960.4	0.02	0.13	0.22
1010.7	1040.7	9.86	8.58	7.77	1010.7	1040.7	16.59	18.12	23.36	1010.7	1040.7	0.11	0.37	0.44
1070.9	1100.9	9.53	8.07	7.31	1070.9	1100.9	14.86	18.21	23.65	1070.9	1100.9	0.27	0.58	0.54
1151.2	1181.2	8.65	7.16	6.80	1151.2	1181.2	13.96	22.17	23.78	1151.2	1181.2	0.58	0.87	0.62
1211.4	1241.4	8.48	6.82	6.52	1211.4	1241.4	13.68	23.67	23.66	1211.4	1241.4	0.70	0.92	0.62
1291.7	1321.7	7.32	6.39	6.20	1291.7	1321.7	18.92	24.72	24.56	1291.7	1321.7	1.28	0.89	0.63
1351.9	1381.9	6.87	6.15	5.99	1351.9	1381.9	19.28	22.58	23.48	1351.9	1381.9	1.39	0.85	0.64
1432.2	1462.2	6.30	5.89	5.76	1432.2	1462.2	20.01	21.55	22.78	1432.2	1462.2	1.52	0.80	0.64
1492.4	1522.4	6.16	5.77	5.66	1492.4	1522.4	20.37	21.22	22.29	1492.4	1522.4	1.41	0.77	0.63
1572.7	1602.7	5.95	5.64	5.55	1572.7	1602.7	20.50	20.89	21.67	1572.7	1602.7	1.33	0.73	0.59
1632.9	1662.9	5.90	5.58	5.49	1632.9	1662.9	20.86	21.19	22.15	1632.9	1662.9	1.19	0.69	0.57
1713.2	1743.2	5.87	5.52	5.43	1713.2	1743.2	20.98	21.67	23.06	1713.2	1743.2	1.21	0.64	0.52
1773.5	1803.5	5.80	5.48	5.40	1773.5	1803.5	21.99	22.25	23.42	1773.5	1803.5	1.13	0.58	0.46
1853.7	1883.7	5.87	5.47	5.36	1853.7	1883.7	22.56	23.02	23.78	1853.7	1883.7	1.13	0.51	0.37
1914.0	1944.0	5.86	5.46	5.36	1914.0	1944.0	22.63	23.65	24.16	1914.0	1944.0	1.12	0.50	0.36
1994.3	2024.3	6.01	5.52	5.39	1994.3	2024.3	21.71	23.00	24.64	1994.3	2024.3	1.14	0.45	0.30
2054.5	2084.5	5.89	5.53	5.42	2054.5	2084.5	22.49	23.22	24.75	2054.5	2084.5	1.06	0.39	0.26
2134.8	2164.8	6.09	5.63	5.53	2134.8	2164.8	23.01	24.33	26.41	2134.8	2164.8	1.01	0.34	0.21
2195.0	2225.0	6.32	5.72	5.61	2195.0	2225.0	23.01	24.11	27.13	2195.0	2225.0	1.03	0.34	0.20
2275.3	2305.3	6.44	5.84	5.76	2275.3	2305.3	21.02	24.21	28.31	2275.3	2305.3	0.97	0.34	0.17
2335.5	2365.5	6.52	5.89	5.81	2335.5	2365.5	19.56	27.18	28.66	2335.5	2365.5	0.86	0.34	0.16
2415.8	2445.8	6.93	5.99	5.83	2415.8	2445.8	17.77	24.34	29.42	2415.8	2445.8	0.64	0.34	0.20
2476.0	2506.0	7.27	6.15	5.89	2476.0	2506.0	17.20	23.32	30.83	2476.0	2506.0	0.49	0.30	0.20
2556.3	2586.3	7.38	6.32	6.02	2556.3	2586.3	16.66	23.73	31.80	2556.3	2586.3	0.38	0.23	0.16
2616.5	2646.5	8.03	6.51	6.14	2616.5	2646.5	15.02	21.75	33.19	2616.5	2646.5	0.15	0.24	0.16
2696.8	2726.8	8.68	6.78	6.28	2696.8	2726.8	14.31	21.71	30.97	2696.8	2726.8	0.01	0.24	0.16
2757.0	2787.0	8.80	6.93	6.37	2757.0	2787.0	14.84	24.77	29.26	2757.0	2787.0	0.02	0.23	0.16
2837.3	2867.3	8.92	7.06	6.47	2837.3	2867.3	16.21	23.15	23.47	2837.3	2867.3	0.07	0.26	0.19
2897.5	2927.5	10.05	7.44	6.63	2897.5	2927.5	13.82	22.11	22.29	2897.5	2927.5	-0.38	0.25	0.23
2977.8	3007.8	10.33	7.70	6.93	2977.8	3007.8	13.84	22.59	21.96	2977.8	3007.8	-0.56	0.17	0.21
3038.1	3068.1	9.47	7.73	7.14	3038.1	3068.1	16.17	23.31	22.67	3038.1	3068.1	-0.17	0.14	0.20
3118.3	3148.3	10.23	8.09	7.56	3118.3	3148.3	14.21	27.05	23.79	3118.3	3148.3	-0.67	0.11	0.16
3178.6	3208.6	11.92	8.33	7.84	3178.6	3208.6	11.19	20.37	24.59	3178.6	3208.6	-1.99	0.20	0.16
3258.9	3288.9	12.91	8.53	8.13	3258.9	3288.9	10.43	19.22	26.26	3258.9	3288.9	-2.71	0.29	0.14
3319.1	3349.1	10.68	8.58	8.26	3319.1	3349.1	15.00	20.99	27.57	3319.1	3349.1	-0.70	0.27	0.15
3399.4	3429.4	14.40	9.05	8.50	3399.4	3429.4	9.68	19.32	31.43	3399.4	3429.4	-3.62	0.27	0.18
3459.6	3489.6	14.54	9.27	8.78	3459.6	3489.6	10.00	20.01	30.49	3459.6	3489.6	-3.50	0.32	0.18
3539.9	3569.9	14.39	9.43	9.18	3539.9	3569.9	10.86	19.79	30.47	3539.9	3569.9	-3.08	0.43	0.15
3600.1	3630.1	14.75	9.39	9.24	3600.1	3630.1	10.75	19.21	25.64	3600.1	3630.1	-3.26	0.56	0.21



Frequency Mixer

ADE-20H

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1750.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1500.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
250.0	1500.1	5.87	10.0	1510.1	5.88	300.0	1700.1	5.99
237.4	1512.7	5.86	17.4	1517.5	5.81	292.6	1707.5	5.99
224.7	1525.4	5.86	24.9	1525.0	5.76	285.1	1715.0	5.98
212.1	1538.0	5.84	32.3	1532.4	5.76	277.7	1722.4	5.97
199.5	1550.6	5.82	39.7	1539.8	5.75	270.3	1729.8	5.96
186.8	1563.3	5.79	47.2	1547.3	5.76	262.8	1737.3	5.97
174.2	1575.9	5.79	54.6	1554.7	5.77	255.4	1744.7	5.96
161.6	1588.5	5.75	62.1	1562.2	5.77	247.9	1752.2	5.92
148.9	1601.2	5.71	69.5	1569.6	5.78	240.5	1759.6	5.88
136.3	1613.8	5.70	76.9	1577.0	5.79	233.1	1767.0	5.87
123.7	1626.4	5.67	84.4	1584.5	5.81	225.6	1774.5	5.88
111.1	1639.0	5.65	91.8	1591.9	5.82	218.2	1781.9	5.88
98.4	1651.7	5.64	99.2	1599.3	5.83	210.8	1789.3	5.87
85.8	1664.3	5.61	106.7	1606.8	5.86	203.3	1796.8	5.84
73.2	1676.9	5.59	114.1	1614.2	5.87	195.9	1804.2	5.83
60.5	1689.6	5.56	121.5	1621.6	5.89	188.5	1811.6	5.81
47.9	1702.2	5.55	129.0	1629.1	5.90	181.0	1819.1	5.80
35.3	1714.8	5.53	136.4	1636.5	5.93	173.6	1826.5	5.81
22.6	1727.5	5.52	143.8	1643.9	5.96	166.2	1833.9	5.80
10.0	1740.1	5.65	151.3	1651.4	5.98	158.7	1841.4	5.79
10.0	1760.1	5.67	158.7	1658.8	5.99	151.3	1848.8	5.76
22.6	1772.7	5.52	166.2	1666.3	6.01	143.8	1856.3	5.74
35.3	1785.4	5.50	173.6	1673.7	6.03	136.4	1863.7	5.73
47.9	1798.0	5.51	181.0	1681.1	6.05	129.0	1871.1	5.73
60.5	1810.6	5.50	188.5	1688.6	6.05	121.5	1878.6	5.72
73.2	1823.3	5.52	195.9	1696.0	6.07	114.1	1886.0	5.70
85.8	1835.9	5.56	203.3	1703.4	6.09	106.7	1893.4	5.68
98.4	1848.5	5.56	210.8	1710.9	6.12	99.2	1900.9	5.67
111.1	1861.2	5.58	218.2	1718.3	6.13	91.8	1908.3	5.66
123.7	1873.8	5.62	225.6	1725.7	6.14	84.4	1915.7	5.65
136.3	1886.4	5.66	233.1	1733.2	6.15	76.9	1923.2	5.64
148.9	1899.0	5.68	240.5	1740.6	6.17	69.5	1930.6	5.63
161.6	1911.7	5.71	247.9	1748.0	6.19	62.1	1938.0	5.61
174.2	1924.3	5.77	255.4	1755.5	6.22	54.6	1945.5	5.59
186.8	1936.9	5.79	262.8	1762.9	6.25	47.2	1952.9	5.58
199.5	1949.6	5.80	270.3	1770.4	6.28	39.7	1960.4	5.58
212.1	1962.2	5.87	277.7	1777.8	6.30	32.3	1967.8	5.58
224.7	1974.8	5.92	285.1	1785.2	6.30	24.9	1975.2	5.56
237.4	1987.5	5.92	292.6	1792.7	6.32	17.4	1982.7	5.58
250.0	2000.1	5.95	300.0	1800.1	6.35	10.0	1990.1	5.67

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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
850.1	25.59	25.82	24.58	12.98	13.98	14.17
930.4	27.55	27.17	25.38	13.76	14.52	14.42
1010.7	31.15	29.36	26.81	14.57	14.91	14.59
1070.9	36.26	32.07	28.52	15.39	15.47	15.08
1151.2	46.03	38.61	31.38	16.81	16.70	16.44
1211.4	34.88	38.58	33.53	18.00	18.00	17.76
1291.7	29.28	32.07	32.47	20.11	20.43	20.07
1351.9	27.72	29.65	30.60	22.17	22.75	22.28
1432.2	26.41	28.04	28.86	25.11	26.32	25.68
1492.4	26.40	27.79	28.44	27.70	29.31	28.67
1572.7	26.24	27.92	28.55	30.17	33.62	33.42
1632.9	26.29	28.07	28.85	32.11	36.84	37.92
1713.2	25.82	27.68	28.69	33.08	39.53	48.24
1773.5	25.52	26.89	27.96	33.63	39.04	48.54
1853.7	25.81	26.65	27.29	33.90	37.40	39.84
1914.0	26.41	27.15	27.57	34.23	36.90	37.52
1994.3	27.04	27.62	28.01	34.61	36.11	35.80
2054.5	27.27	27.63	27.95	34.46	35.26	34.48
2134.8	27.79	27.85	28.06	34.57	34.52	33.17
2195.0	28.19	28.23	28.34	34.57	34.32	32.54
2275.3	28.58	28.74	28.82	34.60	34.22	32.24
2335.5	28.81	28.91	29.10	34.18	34.05	31.96
2415.8	29.07	28.91	29.12	33.93	33.81	31.60
2476.0	29.21	28.97	29.07	33.88	33.42	31.24
2556.3	29.90	29.27	29.16	33.50	33.15	30.72
2616.5	30.66	29.57	29.44	33.31	33.17	30.49
2696.8	31.75	30.05	29.63	33.31	32.94	30.23
2757.0	32.47	30.70	29.96	33.56	32.68	29.90
2837.3	34.91	32.06	30.70	33.22	33.27	29.99
2897.5	35.56	33.16	32.02	33.53	33.16	29.90
2977.8	37.08	35.01	33.25	33.51	33.18	29.87
3038.1	38.19	36.48	34.99	33.59	33.14	29.91
3118.3	40.99	38.33	37.45	33.31	33.65	30.15
3178.6	40.27	39.00	38.62	33.66	32.96	29.98
3258.9	40.29	38.27	38.90	33.70	32.55	29.87
3319.1	42.44	37.51	37.43	33.40	32.99	29.83
3399.4	41.56	37.16	35.94	33.45	32.84	29.26
3459.6	39.02	36.57	35.20	33.51	31.56	28.42
3539.9	38.12	36.45	35.50	33.37	31.55	28.19
3600.1	37.80	36.04	35.71	33.05	32.45	28.56

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
850.1	880.1	12.34	12.41	12.37
930.4	960.4	11.25	11.24	11.10
1010.7	1040.7	10.25	10.07	9.94
1070.9	1100.9	9.94	9.71	9.60
1151.2	1181.2	9.97	9.82	9.66
1211.4	1241.4	10.47	10.20	9.95
1291.7	1321.7	11.56	11.12	10.77
1351.9	1381.9	12.50	12.05	11.67
1432.2	1462.2	13.10	12.66	12.39
1492.4	1522.4	13.31	12.71	12.48
1572.7	1602.7	13.39	12.75	12.47
1632.9	1662.9	13.44	12.81	12.48
1713.2	1743.2	13.43	12.94	12.64
1773.5	1803.5	13.40	13.08	12.86
1853.7	1883.7	13.47	13.40	13.30
1914.0	1944.0	13.51	13.61	13.63
1994.3	2024.3	13.71	13.98	14.10
2054.5	2084.5	14.09	14.42	14.56
2134.8	2164.8	14.50	15.16	15.42
2195.0	2225.0	14.67	15.65	16.04
2275.3	2305.3	15.02	16.29	16.89
2335.5	2365.5	15.29	16.63	17.45
2415.8	2445.8	15.29	16.79	17.77
2476.0	2506.0	15.40	16.99	17.90
2556.3	2586.3	15.88	17.41	18.25
2616.5	2646.5	15.79	17.52	18.38
2696.8	2726.8	15.96	17.57	18.34
2757.0	2787.0	16.44	17.88	18.54
2837.3	2867.3	17.30	18.77	19.36
2897.5	2927.5	17.54	19.59	20.33
2977.8	3007.8	18.76	21.05	21.79
3038.1	3068.1	20.27	22.39	22.94
3118.3	3148.3	21.44	23.64	24.24
3178.6	3208.6	22.46	24.17	24.96
3258.9	3288.9	24.34	25.00	25.48
3319.1	3349.1	25.28	25.65	25.54
3399.4	3429.4	27.65	26.15	25.74
3459.6	3489.6	28.50	26.41	25.69
3539.9	3569.9	28.95	26.58	25.60
3600.1	3630.1	29.06	26.53	25.48

Frequency Mixer

ADE-20H

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+14	+17	+20
850.1	880.1	6.71	6.37	5.85
930.4	960.4	5.36	4.89	4.43
1010.7	1040.7	4.42	3.89	3.43
1070.9	1100.9	3.92	3.34	2.96
1151.2	1181.2	3.29	2.73	2.52
1211.4	1241.4	3.02	2.46	2.27
1291.7	1321.7	2.45	2.17	2.03
1351.9	1381.9	2.17	1.99	1.90
1432.2	1462.2	1.80	1.67	1.62
1492.4	1522.4	1.65	1.49	1.44
1572.7	1602.7	1.51	1.34	1.28
1632.9	1662.9	1.45	1.26	1.19
1713.2	1743.2	1.36	1.17	1.12
1773.5	1803.5	1.27	1.11	1.11
1853.7	1883.7	1.23	1.06	1.11
1914.0	1944.0	1.18	1.02	1.12
1994.3	2024.3	1.16	1.03	1.14
2054.5	2084.5	1.07	1.10	1.20
2134.8	2164.8	1.06	1.19	1.31
2195.0	2225.0	1.09	1.22	1.36
2275.3	2305.3	1.10	1.26	1.43
2335.5	2365.5	1.12	1.25	1.46
2415.8	2445.8	1.21	1.21	1.43
2476.0	2506.0	1.23	1.21	1.42
2556.3	2586.3	1.15	1.24	1.45
2616.5	2646.5	1.20	1.23	1.45
2696.8	2726.8	1.23	1.15	1.35
2757.0	2787.0	1.24	1.17	1.33
2837.3	2867.3	1.37	1.39	1.50
2897.5	2927.5	1.63	1.62	1.74
2977.8	3007.8	1.93	2.03	2.20
3038.1	3068.1	2.14	2.40	2.59
3118.3	3148.3	2.60	2.79	3.09
3178.6	3208.6	3.17	2.99	3.40
3258.9	3288.9	3.79	3.33	3.77
3319.1	3349.1	3.80	3.76	4.09
3399.4	3429.4	5.27	4.28	4.53
3459.6	3489.6	5.99	4.79	5.00
3539.9	3569.9	6.81	5.33	5.56
3600.1	3630.1	7.41	5.51	5.68

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+14	+17	+20
850.1	3.38	1.96	1.61
930.4	3.15	1.83	1.55
1010.7	2.78	1.75	1.54
1070.9	2.67	1.75	1.51
1151.2	2.71	1.69	1.43
1211.4	2.63	1.64	1.39
1291.7	2.76	1.54	1.33
1351.9	2.66	1.46	1.26
1432.2	2.78	1.42	1.23
1492.4	2.55	1.38	1.19
1572.7	2.73	1.39	1.18
1632.9	2.56	1.38	1.16
1713.2	2.72	1.42	1.15
1773.5	2.69	1.45	1.14
1853.7	2.85	1.51	1.16
1914.0	2.97	1.56	1.16
1994.3	3.01	1.62	1.17
2054.5	3.35	1.71	1.19
2134.8	3.52	1.80	1.20
2195.0	3.75	1.91	1.22
2275.3	3.76	1.98	1.27
2335.5	4.43	2.18	1.32
2415.8	4.68	2.30	1.39
2476.0	4.53	2.30	1.41
2556.3	5.17	2.50	1.48
2616.5	5.72	2.68	1.54
2696.8	6.11	2.84	1.61
2757.0	6.11	2.88	1.65
2837.3	7.60	3.40	1.82
2897.5	7.28	3.39	1.90
2977.8	7.80	3.62	2.04
3038.1	8.08	3.70	2.16
3118.3	9.85	4.42	2.42
3178.6	9.08	4.12	2.51
3258.9	9.48	4.31	2.73
3319.1	11.53	5.34	3.00
3399.4	12.26	5.81	3.25
3459.6	11.46	5.14	3.25
3539.9	12.01	5.54	3.58
3600.1	13.81	6.89	4.06

IF (OUT) (MHz)	IF VSWR @LO=2000.1MHz (:1)		
	@LO (dBm)		
	+14	+17	+20
10.0	1.75	1.56	1.41
17.4	1.46	1.31	1.20
24.9	1.47	1.30	1.21
32.3	1.43	1.28	1.20
39.7	1.42	1.27	1.20
47.2	1.40	1.25	1.18
54.6	1.38	1.24	1.19
62.1	1.38	1.23	1.18
69.5	1.39	1.24	1.18
76.9	1.39	1.23	1.18
84.4	1.37	1.23	1.17
91.8	1.40	1.26	1.21
99.2	1.42	1.28	1.23
106.7	1.46	1.33	1.28
114.1	1.48	1.35	1.31
121.5	1.51	1.38	1.33
129.0	1.51	1.39	1.35
136.4	1.52	1.40	1.36
143.8	1.50	1.40	1.36
151.3	1.49	1.39	1.36
158.7	1.50	1.41	1.38
166.2	1.53	1.44	1.41
173.6	1.54	1.45	1.41
181.0	1.56	1.47	1.44
188.5	1.58	1.49	1.46
195.9	1.60	1.51	1.47
203.3	1.62	1.53	1.49
210.8	1.64	1.55	1.51
218.2	1.65	1.57	1.54
225.6	1.66	1.59	1.57
233.1	1.68	1.61	1.60
240.5	1.69	1.63	1.62
247.9	1.70	1.64	1.63
255.4	1.70	1.63	1.63
262.8	1.69	1.63	1.63
270.3	1.67	1.62	1.62
277.7	1.67	1.62	1.62
285.1	1.68	1.64	1.64
292.6	1.71	1.67	1.67
300.0	1.74	1.70	1.70

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	23	9	24	19	36	29	33	42	51
1	-	8	+0	32	29	33	34	25	38	46	48	60
2	>100	59	61	64	55	60	43	52	47	53	54	58
3	>100	74	78	69	55	72	82	64	72	58	67	77
4	>100	88	77	89	>94	85	85	89	71	78	77	76
5	>100	>94	>94	>94	>94	>94	85	>94	>94	>94	>94	90
6	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
7	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
8	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
9	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
10	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1750.1 MHz; -1.00 dBm.
 LO IN: 1780.1 MHz; +17.00 dBm
 IF OUT: 30 MHz; -6.46 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	34	35	22	38	34	43	52	56	60	73
1	-	7	+0	34	29	37	37	29	47	52	49	68
2	91	54	53	59	48	53	37	47	44	57	54	55
3	>100	63	60	50	35	52	62	51	54	43	55	68
4	>100	66	56	67	74	67	64	66	50	56	55	58
5	>100	82	74	72	77	74	58	76	83	65	72	58
6	>100	80	76	85	71	80	89	78	76	78	61	66
7	>100	92	94	95	88	85	88	97	75	>103	92	76
8	>100	97	100	91	90	>103	84	92	93	84	88	89
9	>100	>103	>103	97	100	99	>103	98	97	>103	95	>103
10	>100	>103	>103	>103	>103	>103	98	>103	96	>103	98	94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1750.1 MHz; 9.00 dBm.
 LO IN: 1780.1 MHz; +17.00 dBm
 IF OUT: 30 MHz; 3.35 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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