

Frequency Mixer

ADE-35MH

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=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
5.0	35.0	7.05	7.36	6.71	10.1	40.1	26.03	27.40	26.78	10.1	40.1	1.28	0.88	0.59
10.1	40.1	6.99	6.68	6.53	90.3	120.3	23.08	24.50	23.74	90.3	120.3	1.25	0.87	0.60
90.3	120.3	7.29	6.99	6.82	170.6	200.6	22.87	21.07	20.90	170.6	200.6	1.25	0.86	0.57
170.6	200.6	7.34	7.04	6.90	250.8	280.8	19.47	19.13	20.75	250.8	280.8	1.28	0.87	0.62
250.8	280.8	7.43	7.15	6.99	331.0	361.0	18.11	19.19	21.92	331.0	361.0	1.32	0.97	0.74
331.0	361.0	7.55	7.23	7.03	431.3	461.3	17.59	20.12	24.28	431.3	461.3	1.42	1.14	0.89
431.3	461.3	7.71	7.31	7.06	511.5	541.5	18.50	22.62	26.77	511.5	541.5	1.42	1.14	0.88
511.5	541.5	7.83	7.39	7.15	611.8	641.8	19.51	26.12	35.64	611.8	641.8	1.57	1.33	1.08
611.8	641.8	7.92	7.40	7.13	692.1	722.1	19.39	23.11	22.69	692.1	722.1	1.67	1.43	1.13
692.1	722.1	8.03	7.52	7.24	792.3	822.3	19.26	20.85	21.16	792.3	822.3	1.68	1.41	1.11
792.3	822.3	8.13	7.60	7.33	872.6	902.6	21.13	21.28	20.96	872.6	902.6	1.83	1.54	1.21
872.6	902.6	8.02	7.50	7.27	972.9	1002.9	23.35	22.05	21.61	972.9	1002.9	2.12	1.74	1.39
972.9	1002.9	7.79	7.32	7.13	1053.1	1083.1	21.41	20.55	20.35	1053.1	1083.1	2.08	1.65	1.34
1053.1	1083.1	7.77	7.40	7.23	1153.4	1183.4	19.25	19.59	20.09	1153.4	1183.4	1.96	1.59	1.32
1153.4	1183.4	7.99	7.66	7.45	1233.6	1263.6	18.40	19.10	20.34	1233.6	1263.6	1.80	1.47	1.22
1233.6	1263.6	8.25	7.90	7.69	1333.9	1363.9	17.99	19.00	20.03	1333.9	1363.9	1.60	1.27	1.06
1333.9	1363.9	8.47	8.17	7.99	1414.1	1444.1	18.23	19.12	19.94	1414.1	1444.1	1.41	1.09	0.89
1414.1	1444.1	8.58	8.30	8.13	1514.4	1544.4	18.34	19.49	20.47	1514.4	1544.4	1.29	0.96	0.77
1514.4	1544.4	8.67	8.36	8.20	1594.6	1624.6	18.54	19.93	19.92	1594.6	1624.6	1.20	0.91	0.72
1594.6	1624.6	8.83	8.42	8.25	1694.9	1724.9	18.86	19.95	20.67	1694.9	1724.9	0.98	0.76	0.62
1694.9	1724.9	8.99	8.57	8.35	1775.2	1805.2	18.83	20.09	20.46	1775.2	1805.2	0.81	0.64	0.53
1775.2	1805.2	9.07	8.65	8.42	1875.4	1905.4	18.12	19.03	19.41	1875.4	1905.4	0.68	0.50	0.44
1875.4	1905.4	9.00	8.61	8.40	1955.7	1985.7	18.18	18.71	18.91	1955.7	1985.7	0.62	0.42	0.33
1955.7	1985.7	8.98	8.57	8.39	2056.0	2086.0	19.10	18.61	18.78	2056.0	2086.0	0.56	0.33	0.28
2056.0	2086.0	8.98	8.57	8.39	2136.2	2166.2	19.69	19.64	19.32	2136.2	2166.2	0.53	0.33	0.27
2136.2	2166.2	8.99	8.52	8.36	2236.5	2266.5	20.23	20.84	20.41	2236.5	2266.5	0.49	0.27	0.24
2236.5	2266.5	8.94	8.43	8.28	2316.7	2346.7	20.05	21.24	21.42	2316.7	2346.7	0.51	0.26	0.21
2316.7	2346.7	8.87	8.39	8.22	2417.0	2447.0	20.88	21.66	21.94	2417.0	2447.0	0.55	0.25	0.19
2417.0	2447.0	8.97	8.46	8.28	2497.2	2527.2	21.19	21.99	22.82	2497.2	2527.2	0.58	0.24	0.18
2497.2	2527.2	9.14	8.61	8.43	2597.5	2627.5	22.20	21.59	22.09	2597.5	2627.5	0.61	0.26	0.14
2597.5	2627.5	9.33	8.78	8.57	2677.7	2707.7	22.10	22.04	22.60	2677.7	2707.7	0.60	0.26	0.14
2677.7	2707.7	9.49	8.88	8.67	2778.0	2808.0	21.73	23.23	22.13	2778.0	2808.0	0.66	0.34	0.19
2778.0	2808.0	9.72	9.11	8.87	2858.3	2888.3	21.20	23.48	22.66	2858.3	2888.3	0.70	0.36	0.23
2858.3	2888.3	10.09	9.45	9.17	2958.5	2988.5	21.96	22.13	23.04	2958.5	2988.5	0.72	0.43	0.27
2958.5	2988.5	10.33	9.69	9.37	3038.8	3068.8	24.66	21.84	22.01	3038.8	3068.8	0.74	0.45	0.30
3038.8	3068.8	10.48	9.91	9.57	3139.1	3169.1	24.45	21.99	21.85	3139.1	3169.1	0.90	0.54	0.39
3139.1	3169.1	10.62	10.02	9.70	3219.3	3249.3	21.40	20.96	21.60	3219.3	3249.3	1.09	0.71	0.51
3219.3	3249.3	10.93	10.31	9.96	3319.6	3349.6	20.11	20.89	21.05	3319.6	3349.6	1.21	0.84	0.67
3319.6	3349.6	11.12	10.46	10.06	3399.8	3429.8	19.30	19.40	19.44	3399.8	3429.8	1.37	1.04	0.88
3399.8	3429.8	11.20	10.50	10.08	3500.1	3530.1	17.90	17.80	17.61	3500.1	3530.1	1.62	1.36	1.24



Frequency Mixer

ADE-35MH

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)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
1740.0	10.1	8.74	10.0	20.1	6.95	2500.0	1000.1	9.69
1699.3	50.8	8.83	70.7	80.8	6.97	2439.3	1060.8	9.61
1658.6	91.5	8.84	131.5	141.6	6.93	2378.5	1121.6	9.52
1617.9	132.2	8.84	192.2	202.3	6.98	2317.8	1182.3	9.49
1577.2	172.9	8.87	252.9	263.0	6.95	2257.1	1243.0	9.38
1536.5	213.6	8.84	313.7	323.8	6.98	2196.3	1303.8	9.35
1495.8	254.3	8.87	374.4	384.5	7.01	2135.6	1364.5	9.27
1455.1	295.0	8.85	435.1	445.2	7.00	2074.9	1425.2	9.26
1414.4	335.7	8.86	495.9	506.0	7.01	2014.1	1486.0	9.27
1373.6	376.5	8.82	556.6	566.7	6.95	1953.4	1546.7	9.22
1332.9	417.2	8.82	617.3	627.4	6.95	1892.7	1607.4	9.20
1292.2	457.9	8.80	678.0	688.1	6.99	1832.0	1668.1	9.16
1251.5	498.6	8.78	738.8	748.9	6.99	1771.2	1728.9	9.15
1210.8	539.3	8.76	799.5	809.6	6.99	1710.5	1789.6	9.14
1170.1	580.0	8.73	860.2	870.3	6.96	1649.8	1850.3	9.10
1129.4	620.7	8.69	921.0	931.1	6.91	1589.0	1911.1	9.11
1088.7	661.4	8.70	981.7	991.8	6.96	1528.3	1971.8	9.18
1048.0	702.1	8.65	1042.4	1052.5	6.95	1467.6	2032.5	9.23
1007.3	742.8	8.69	1103.2	1113.3	7.02	1406.8	2093.3	9.33
966.6	783.5	8.66	1163.9	1174.0	7.09	1346.1	2154.0	9.41
925.9	824.2	8.63	1224.6	1234.7	7.17	1285.4	2214.7	9.50
885.2	864.9	8.63	1285.4	1295.5	7.26	1224.6	2275.5	9.62
844.5	905.6	8.55	1346.1	1356.2	7.36	1163.9	2336.2	9.70
803.8	946.3	8.56	1406.8	1416.9	7.44	1103.2	2396.9	9.79
763.1	987.0	8.50	1467.6	1477.7	7.51	1042.4	2457.7	9.89
722.4	1027.7	8.50	1528.3	1538.4	7.62	981.7	2518.4	9.95
681.6	1068.5	8.50	1589.0	1599.1	7.69	921.0	2579.1	9.99
620.6	1129.5	8.52	1649.8	1659.9	7.70	860.2	2639.9	10.05
579.9	1170.2	8.53	1730.7	1740.8	7.77	779.3	2720.8	10.07
518.8	1231.3	8.55	1791.5	1801.6	7.81	718.5	2781.6	10.08
478.1	1272.0	8.50	1872.4	1882.5	7.86	637.6	2862.5	10.09
417.1	1333.0	8.51	1933.2	1943.3	7.84	576.8	2923.3	10.09
376.4	1373.7	8.43	2014.1	2024.2	7.91	495.9	3004.2	10.04
315.3	1434.8	8.47	2074.9	2085.0	7.96	435.1	3065.0	10.01
274.6	1475.5	8.45	2155.9	2166.0	8.04	354.1	3146.0	9.99
213.5	1536.6	8.51	2216.6	2226.7	8.13	293.4	3206.7	10.01
172.8	1577.3	8.43	2297.6	2307.7	8.32	212.4	3287.7	10.02
111.8	1638.3	8.42	2358.3	2368.4	8.41	151.7	3348.4	9.99
71.1	1679.0	8.34	2439.3	2449.4	8.58	70.7	3429.4	9.96
10.0	1740.1	8.30	2500.0	2510.1	8.77	10.0	3490.1	10.06



Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
5.0	45.30	49.90	54.70	30.80	34.20	37.50
10.1	46.27	50.23	54.13	32.32	35.84	39.03
90.3	44.88	44.71	44.18	32.60	35.38	37.11
170.6	38.91	38.33	38.03	31.99	33.78	34.12
250.8	35.06	34.75	34.61	31.69	32.31	31.62
331.0	32.49	32.33	32.34	31.65	31.02	29.77
431.3	30.31	30.34	30.56	31.22	29.46	27.93
511.5	29.14	29.41	29.81	30.86	28.53	26.94
611.8	27.95	28.45	28.94	30.07	27.37	25.75
692.1	27.29	28.01	28.63	29.41	26.62	25.00
792.3	26.60	27.55	28.39	28.46	25.71	24.12
872.6	26.29	27.50	28.54	27.52	24.99	23.51
972.9	26.25	27.64	28.82	26.19	24.01	22.62
1053.1	26.32	27.90	29.22	25.28	23.33	22.06
1153.4	26.57	28.46	30.07	24.12	22.46	21.31
1233.6	26.83	29.04	31.00	23.53	21.99	20.89
1333.9	27.47	30.20	32.80	22.89	21.46	20.39
1414.1	27.86	31.02	34.34	22.72	21.38	20.33
1594.6	28.76	32.86	37.29	22.55	21.36	20.37
1694.9	29.66	34.39	39.02	22.51	21.39	20.41
1775.2	30.66	35.97	39.95	22.45	21.47	20.54
1875.4	32.22	39.66	41.03	22.09	21.41	20.58
1955.7	33.38	43.48	41.00	21.60	21.27	20.64
2056.0	34.12	47.94	39.91	20.94	21.02	20.62
2136.2	34.57	52.83	39.07	20.41	20.73	20.54
2236.5	34.57	57.00	38.12	20.07	20.63	20.64
2316.7	34.29	56.97	37.77	19.80	20.50	20.71
2417.0	33.47	50.25	38.73	19.48	20.35	20.83
2497.2	32.35	44.30	41.14	19.21	20.17	20.81
2597.5	31.70	41.47	44.07	19.26	20.27	21.02
2677.7	30.92	38.39	47.96	19.30	20.30	21.11
2778.0	29.73	35.10	43.71	19.45	20.49	21.38
2858.3	28.97	33.20	39.19	19.56	20.59	21.51
2958.5	28.13	31.52	35.61	19.82	20.89	21.88
3038.8	27.47	30.31	33.48	19.90	20.97	21.96
3139.1	27.07	29.46	31.97	20.26	21.42	22.44
3219.3	26.72	28.86	31.05	20.47	21.72	22.81
3319.6	26.38	28.34	30.28	20.82	22.19	23.40
3399.8	25.86	27.71	29.49	21.10	22.55	23.85
3500.1	25.14	26.86	28.49	21.44	22.93	24.28

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	22.99	22.48	22.93
90.3	120.3	23.03	22.99	23.03
170.6	200.6	23.26	23.24	23.28
250.8	280.8	23.68	23.71	23.92
331.0	361.0	24.27	24.41	24.79
431.3	461.3	25.38	25.68	26.26
511.5	541.5	26.67	27.17	27.84
611.8	641.8	28.80	29.33	29.94
692.1	722.1	31.00	31.45	31.75
792.3	822.3	33.41	33.13	32.56
872.6	902.6	34.29	32.37	30.95
972.9	1002.9	33.00	31.04	29.53
1053.1	1083.1	31.24	29.99	28.61
1153.4	1183.4	29.13	28.54	27.57
1233.6	1263.6	27.58	27.06	26.29
1333.9	1363.9	25.99	25.42	24.80
1414.1	1444.1	25.09	24.38	23.75
1514.4	1544.4	24.61	23.89	23.27
1594.6	1624.6	24.65	24.08	23.49
1694.9	1724.9	24.84	24.38	23.88
1775.2	1805.2	25.29	24.83	24.37
1875.4	1905.4	25.70	25.23	24.87
1955.7	1985.7	25.89	25.45	25.14
2056.0	2086.0	25.63	25.43	25.22
2136.2	2166.2	25.18	25.30	25.21
2236.5	2266.5	24.80	25.10	25.23
2316.7	2346.7	24.43	25.03	25.28
2417.0	2447.0	23.70	24.30	24.69
2497.2	2527.2	23.39	23.94	24.30
2597.5	2627.5	23.21	23.64	23.94
2677.7	2707.7	23.08	23.40	23.63
2778.0	2808.0	22.82	23.03	23.14
2858.3	2888.3	22.38	22.57	22.64
2958.5	2988.5	21.67	21.89	22.05
3038.8	3068.8	20.98	21.23	21.39
3139.1	3169.1	20.47	20.65	20.85
3219.3	3249.3	20.26	20.39	20.53
3319.6	3349.6	20.14	20.22	20.33
3399.8	3429.8	20.16	20.20	20.29
3500.1	3530.1	20.46	20.42	20.42

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+10	+13	+16
5.0	35.0	1.28	1.35	1.42
10.1	40.1	1.10	1.19	1.27
90.3	120.3	1.06	1.15	1.23
170.6	200.6	1.05	1.13	1.20
250.8	280.8	1.02	1.10	1.15
331.0	361.0	1.01	1.06	1.11
431.3	461.3	1.08	1.04	1.07
511.5	541.5	1.13	1.08	1.08
611.8	641.8	1.22	1.16	1.14
692.1	722.1	1.30	1.25	1.22
792.3	822.3	1.44	1.37	1.34
872.6	902.6	1.52	1.45	1.42
972.9	1002.9	1.62	1.56	1.52
1053.1	1083.1	1.70	1.65	1.61
1153.4	1183.4	1.85	1.80	1.75
1233.6	1263.6	1.97	1.91	1.87
1333.9	1363.9	2.08	2.04	2.00
1414.1	1444.1	2.16	2.12	2.09
1514.4	1544.4	2.24	2.21	2.18
1594.6	1624.6	2.28	2.25	2.22
1694.9	1724.9	2.32	2.27	2.23
1775.2	1805.2	2.38	2.33	2.29
1875.4	1905.4	2.44	2.39	2.35
1955.7	1985.7	2.44	2.38	2.35
2056.0	2086.0	2.38	2.31	2.27
2136.2	2166.2	2.36	2.27	2.23
2236.5	2266.5	2.37	2.28	2.21
2316.7	2346.7	2.38	2.26	2.18
2417.0	2447.0	2.30	2.15	2.06
2497.2	2527.2	2.23	2.07	1.97
2597.5	2627.5	2.21	2.03	1.92
2677.7	2707.7	2.26	2.07	1.95
2778.0	2808.0	2.32	2.13	2.00
2858.3	2888.3	2.34	2.15	2.03
2958.5	2988.5	2.36	2.20	2.09
3038.8	3068.8	2.43	2.28	2.18
3139.1	3169.1	2.53	2.39	2.30
3219.3	3249.3	2.55	2.42	2.32
3319.6	3349.6	2.49	2.37	2.29
3399.8	3429.8	2.48	2.37	2.28
3500.1	3530.1	2.51	2.40	2.30

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+10	+13	+16
5.0	1.63	2.37	3.26
10.1	1.70	2.40	3.40
90.3	1.60	2.28	3.15
170.6	1.57	2.22	3.03
250.8	1.57	2.21	3.00
331.0	1.61	2.23	3.00
431.3	1.61	2.20	2.93
511.5	1.59	2.15	2.85
611.8	1.59	2.12	2.77
692.1	1.60	2.12	2.75
792.3	1.57	2.06	2.65
872.6	1.55	2.03	2.59
972.9	1.52	1.97	2.52
1053.1	1.50	1.94	2.46
1153.4	1.52	1.91	2.40
1233.6	1.53	1.88	2.34
1333.9	1.56	1.85	2.28
1414.1	1.58	1.81	2.21
1514.4	1.61	1.79	2.15
1594.6	1.63	1.75	2.07
1694.9	1.66	1.71	2.01
1775.2	1.67	1.68	1.95
1875.4	1.69	1.64	1.87
1955.7	1.69	1.59	1.78
2056.0	1.70	1.52	1.66
2136.2	1.71	1.47	1.55
2236.5	1.73	1.41	1.43
2316.7	1.74	1.36	1.33
2417.0	1.75	1.32	1.22
2497.2	1.78	1.32	1.12
2597.5	1.75	1.28	1.03
2677.7	1.73	1.28	1.06
2778.0	1.74	1.32	1.18
2858.3	1.72	1.36	1.28
2958.5	1.74	1.43	1.39
3038.8	1.75	1.49	1.48
3139.1	1.73	1.55	1.58
3219.3	1.75	1.62	1.67
3319.6	1.76	1.68	1.77
3399.8	1.77	1.73	1.83
3500.1	1.78	1.80	1.91

IF (OUT) (MHz)	IF VSWR @LO=3500.1MHz (:1)		
	@LO (dBm)		
	+10	+13	+16
5.0	1.33	1.50	1.61
10.1	1.09	1.27	1.47
70.3	1.05	1.12	1.25
130.6	1.04	1.16	1.30
190.8	1.08	1.15	1.27
251.1	1.10	1.17	1.29
311.3	1.12	1.19	1.29
371.6	1.13	1.19	1.29
431.8	1.14	1.19	1.29
492.0	1.14	1.18	1.27
552.3	1.16	1.20	1.29
612.5	1.14	1.17	1.26
672.8	1.16	1.19	1.28
733.0	1.15	1.14	1.22
793.2	1.13	1.16	1.26
853.5	1.16	1.15	1.23
913.7	1.10	1.12	1.23
974.0	1.13	1.14	1.23
1034.2	1.09	1.09	1.20
1094.5	1.08	1.12	1.24
1154.7	1.08	1.07	1.19
1214.9	1.04	1.13	1.25
1275.2	1.07	1.08	1.20
1335.4	1.06	1.11	1.24
1395.7	1.08	1.10	1.21
1455.9	1.13	1.18	1.28
1516.1	1.13	1.14	1.24
1596.5	1.21	1.22	1.30
1656.7	1.21	1.26	1.35
1737.0	1.22	1.23	1.30
1797.3	1.34	1.35	1.41
1877.6	1.34	1.36	1.43
1937.8	1.36	1.34	1.37
2018.2	1.48	1.46	1.50
2078.4	1.41	1.41	1.46
2158.7	1.47	1.45	1.47
2219.0	1.62	1.61	1.65
2299.3	1.59	1.60	1.64
2359.5	1.68	1.66	1.68
2439.9	1.86	1.86	1.90
2500.1	1.79	1.79	1.82

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	3	15	19	30	31	42	36	57	50	62
1	-	17	+0	29	16	34	22	39	33	45	40	49
2	74	40	43	35	49	40	43	49	42	46	47	56
3	>100	53	37	58	41	58	45	60	43	52	47	54
4	>100	56	52	53	55	49	67	52	55	52	59	68
5	92	68	70	72	57	79	55	79	58	69	58	67
6	>100	75	74	76	68	66	68	61	68	63	70	62
7	95	77	89	77	80	75	76	75	69	79	69	81
8	98	92	84	>95	92	90	82	74	84	70	81	73
9	>100	95	>95	90	>95	94	91	83	89	82	81	84
10	99	>95	>95	>95	>95	>95	93	>95	86	85	87	80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1750.1 MHz; 4.00 dBm.
 LO IN: 1780.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -4.51 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+6	5	8	16	18	26	22	35	31	51
1	-	17	+0	29	16	32	19	35	30	39	35	40
2	85	47	49	43	70	46	52	46	49	58	52	65
3	>100	70	58	84	61	>86	63	74	62	71	65	70
4	>100	>86	>86	81	>86	76	>86	79	>86	77	>86	>86
5	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
6	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
7	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
8	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
9	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
10	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1750.1 MHz; -6.00 dBm.
 LO IN: 1780.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -14.46 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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