

Frequency Mixer

SYM-24DH+

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
10.1	40.1	5.88	5.43	5.25	10.1	40.1	31.09	30.16	28.33	10.1	40.1	1.17	0.68	0.41
110.4	140.4	6.42	5.89	5.66	110.4	140.4	23.99	23.88	24.16	110.4	140.4	0.92	0.59	0.39
210.7	240.7	6.47	6.01	5.72	210.7	240.7	21.37	23.12	24.87	210.7	240.7	1.08	0.69	0.48
310.9	340.9	6.87	6.28	5.89	310.9	340.9	21.43	22.98	24.93	310.9	340.9	0.96	0.68	0.53
411.2	441.2	6.94	6.25	5.88	411.2	441.2	22.16	24.44	26.34	411.2	441.2	1.02	0.79	0.63
511.5	541.5	7.17	6.35	5.97	511.5	541.5	22.99	26.59	28.36	511.5	541.5	1.12	0.98	0.76
611.8	641.8	7.28	6.41	6.04	611.8	641.8	23.51	26.68	29.76	611.8	641.8	1.09	0.90	0.69
712.1	742.1	7.17	6.39	6.06	712.1	742.1	27.25	32.58	34.76	712.1	742.1	1.17	0.90	0.65
792.3	822.3	7.22	6.55	6.22	792.3	822.3	30.13	35.48	31.91	792.3	822.3	1.11	0.80	0.57
892.6	922.6	7.20	6.64	6.35	892.6	922.6	32.59	41.75	30.85	892.6	922.6	0.95	0.63	0.45
972.8	1002.8	7.17	6.64	6.41	972.8	1002.8	41.36	31.50	29.83	972.8	1002.8	0.87	0.52	0.36
1073.1	1103.1	7.18	6.68	6.45	1073.1	1103.1	31.43	28.49	26.89	1073.1	1103.1	0.74	0.40	0.28
1153.3	1183.3	7.23	6.72	6.48	1153.3	1183.3	31.87	26.55	27.00	1153.3	1183.3	0.59	0.29	0.21
1253.6	1283.6	7.26	6.69	6.47	1253.6	1283.6	38.63	28.11	26.97	1253.6	1283.6	0.56	0.27	0.19
1333.8	1363.8	7.33	6.71	6.50	1333.8	1363.8	28.82	35.92	28.06	1333.8	1363.8	0.61	0.26	0.17
1434.1	1464.1	7.47	6.78	6.54	1434.1	1464.1	30.12	31.69	31.24	1434.1	1464.1	0.55	0.27	0.16
1514.3	1544.3	7.51	6.82	6.59	1514.3	1544.3	29.37	31.32	33.92	1514.3	1544.3	0.58	0.30	0.17
1614.6	1644.6	7.59	6.91	6.67	1614.6	1644.6	26.54	30.57	37.07	1614.6	1644.6	0.70	0.31	0.18
1694.8	1724.8	7.72	6.99	6.75	1694.8	1724.8	23.84	29.60	34.55	1694.8	1724.8	0.66	0.31	0.18
1795.1	1825.1	8.12	7.27	6.99	1795.1	1825.1	22.46	27.80	32.51	1795.1	1825.1	0.57	0.29	0.19
1875.3	1905.3	8.51	7.59	7.20	1875.3	1905.3	21.72	26.64	33.97	1875.3	1905.3	0.40	0.26	0.18
1975.6	2005.6	9.07	7.96	7.49	1975.6	2005.6	21.90	26.58	34.02	1975.6	2005.6	0.30	0.24	0.21
2055.8	2085.8	9.44	8.27	7.68	2055.8	2085.8	22.22	28.51	32.67	2055.8	2085.8	0.16	0.18	0.19
2156.1	2186.1	9.64	8.42	7.79	2156.1	2186.1	25.24	30.94	29.41	2156.1	2186.1	0.14	0.21	0.21
2236.3	2266.3	9.68	8.50	7.88	2236.3	2266.3	27.45	27.33	26.31	2236.3	2266.3	0.16	0.24	0.26
2336.6	2366.6	9.46	8.40	7.85	2336.6	2366.6	27.06	26.24	25.97	2336.6	2366.6	0.35	0.36	0.35
2416.8	2446.8	9.20	8.20	7.74	2416.8	2446.8	26.73	25.23	25.12	2416.8	2446.8	0.45	0.44	0.40
2517.1	2547.1	8.99	8.13	7.69	2517.1	2547.1	25.23	24.01	24.10	2517.1	2547.1	0.70	0.50	0.47
2597.3	2627.3	8.76	7.98	7.59	2597.3	2627.3	23.73	23.76	23.43	2597.3	2627.3	0.85	0.61	0.51
2697.6	2727.6	8.58	7.80	7.44	2697.6	2727.6	22.82	22.94	22.76	2697.6	2727.6	1.13	0.75	0.60
2777.8	2807.8	8.43	7.71	7.36	2777.8	2807.8	22.19	22.40	22.21	2777.8	2807.8	1.32	0.83	0.64
2878.1	2908.1	8.51	7.69	7.38	2878.1	2908.1	21.28	22.03	22.34	2878.1	2908.1	1.57	0.88	0.66
2958.3	2988.3	8.59	7.75	7.42	2958.3	2988.3	20.72	21.72	22.56	2958.3	2988.3	1.70	0.92	0.67
3058.6	3088.6	8.83	8.01	7.54	3058.6	3088.6	20.26	21.28	22.29	3058.6	3088.6	1.78	0.98	0.62
3138.8	3168.8	9.20	8.18	7.72	3138.8	3168.8	20.05	21.21	22.31	3138.8	3168.8	1.87	1.01	0.62
3239.1	3269.1	9.73	8.56	8.01	3239.1	3269.1	19.48	21.05	21.99	3239.1	3269.1	2.08	1.21	0.60
3319.3	3349.3	10.43	9.04	8.34	3319.3	3349.3	19.21	21.05	22.19	3319.3	3349.3	1.96	1.28	0.67
3419.6	3449.6	11.47	9.57	8.70	3419.6	3449.6	19.21	21.19	22.29	3419.6	3449.6	1.72	1.38	0.72
3499.8	3529.8	12.60	10.03	9.11	3499.8	3529.8	20.18	20.99	22.28	3499.8	3529.8	1.23	1.48	0.79
3600.1	3630.1	14.67	10.75	9.54	3600.1	3630.1	15.97	19.67	22.20	3600.1	3630.1	0.19	1.56	0.85



Frequency Mixer

SYM-24DH+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1900.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1400.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2400.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
250.0	1650.1	7.65	10.0	1410.1	6.83	250.0	2150.1	8.34
237.4	1662.7	7.67	16.2	1416.3	6.78	243.8	2156.3	8.35
224.7	1675.4	7.63	22.3	1422.4	6.75	237.7	2162.4	8.30
212.1	1688.0	7.63	28.5	1428.6	6.73	231.5	2168.6	8.29
199.5	1700.6	7.63	34.6	1434.7	6.74	225.4	2174.7	8.29
186.8	1713.3	7.61	40.8	1440.9	6.73	219.2	2180.9	8.31
174.2	1725.9	7.63	46.9	1447.0	6.73	213.1	2187.0	8.29
161.6	1738.5	7.62	53.1	1453.2	6.71	206.9	2193.2	8.28
148.9	1751.2	7.60	59.2	1459.3	6.70	200.8	2199.3	8.26
136.3	1763.8	7.64	65.4	1465.5	6.70	194.6	2205.5	8.25
123.7	1776.4	7.59	71.5	1471.6	6.74	188.5	2211.6	8.27
111.1	1789.0	7.59	77.7	1477.8	6.76	182.3	2217.8	8.27
98.4	1801.7	7.60	83.8	1483.9	6.75	176.2	2223.9	8.27
85.8	1814.3	7.58	90.0	1490.1	6.73	170.0	2230.1	8.27
73.2	1826.9	7.60	96.2	1496.3	6.72	163.8	2236.3	8.25
60.5	1839.6	7.60	102.3	1502.4	6.70	157.7	2242.4	8.26
47.9	1852.2	7.58	108.5	1508.6	6.71	151.5	2248.6	8.28
35.3	1864.8	7.61	114.6	1514.7	6.70	145.4	2254.7	8.28
22.6	1877.5	7.62	120.8	1520.9	6.68	139.2	2260.9	8.27
10.0	1890.1	7.70	126.9	1527.0	6.66	133.1	2267.0	8.24
10.0	1910.1	7.72	133.1	1533.2	6.66	126.9	2273.2	8.24
22.6	1922.7	7.64	139.2	1539.3	6.69	120.8	2279.3	8.23
35.3	1935.4	7.70	145.4	1545.5	6.71	114.6	2285.5	8.22
47.9	1948.0	7.73	151.5	1551.6	6.71	108.5	2291.6	8.22
60.5	1960.6	7.77	157.7	1557.8	6.69	102.3	2297.8	8.21
73.2	1973.3	7.78	163.8	1563.9	6.68	96.2	2303.9	8.21
85.8	1985.9	7.78	170.0	1570.1	6.69	90.0	2310.1	8.21
98.4	1998.5	7.84	176.2	1576.3	6.69	83.8	2316.3	8.19
111.1	2011.2	7.87	182.3	1582.4	6.69	77.7	2322.4	8.21
123.7	2023.8	7.92	188.5	1588.6	6.67	71.5	2328.6	8.21
136.3	2036.4	7.95	194.6	1594.7	6.66	65.4	2334.7	8.21
148.9	2049.0	7.97	200.8	1600.9	6.66	59.2	2340.9	8.21
161.6	2061.7	8.02	206.9	1607.0	6.66	53.1	2347.0	8.20
174.2	2074.3	8.07	213.1	1613.2	6.66	46.9	2353.2	8.22
186.8	2086.9	8.08	219.2	1619.3	6.65	40.8	2359.3	8.23
199.5	2099.6	8.14	225.4	1625.5	6.64	34.6	2365.5	8.19
212.1	2112.2	8.19	231.5	1631.6	6.62	28.5	2371.6	8.22
224.7	2124.8	8.22	237.7	1637.8	6.62	22.3	2377.8	8.19
237.4	2137.5	8.30	243.8	1643.9	6.62	16.2	2383.9	8.21
250.0	2150.1	8.34	250.0	1650.1	6.63	10.0	2390.1	8.26

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
10.1	37.18	39.83	42.49	42.74	45.29	49.16
110.4	37.62	40.25	42.23	42.65	45.58	47.05
210.7	37.99	39.46	39.69	44.07	45.47	44.18
310.9	38.11	38.01	37.87	45.24	44.07	41.73
411.2	38.46	37.74	37.12	47.85	42.61	39.95
511.5	38.94	38.03	36.90	47.42	40.97	38.38
611.8	40.54	38.73	36.79	46.73	40.16	37.30
712.1	42.24	39.35	36.74	44.22	39.00	36.31
792.3	42.89	38.85	36.39	43.34	38.36	35.85
892.6	42.62	38.10	35.78	43.46	37.76	35.18
972.8	42.41	37.77	35.52	43.29	37.71	35.00
1073.1	44.22	38.63	35.92	44.61	38.53	35.49
1153.3	44.41	39.54	36.30	43.72	39.61	36.10
1253.6	41.89	38.97	36.13	42.23	40.18	36.46
1333.8	40.58	37.85	35.60	41.27	40.49	36.68
1434.1	39.51	37.09	34.75	41.42	41.42	37.17
1514.3	38.78	36.95	34.46	41.96	42.38	37.51
1614.6	38.41	37.34	34.98	42.75	43.26	38.13
1694.8	38.31	37.61	35.65	43.68	42.97	38.12
1795.1	37.78	37.50	36.14	42.57	42.26	37.86
1875.3	38.22	38.58	37.29	41.97	41.42	37.59
1975.6	38.59	40.30	39.22	41.26	39.67	36.17
2055.8	38.26	40.52	40.33	40.12	37.69	34.90
2156.1	37.02	39.21	40.04	38.55	35.61	33.49
2236.3	35.73	37.77	39.10	37.00	34.29	32.24
2336.6	34.08	35.90	37.46	34.93	32.94	31.09
2416.8	32.80	34.27	35.93	33.43	31.52	30.26
2517.1	31.65	32.99	34.48	32.09	30.56	29.42
2597.3	30.15	31.65	33.24	30.63	29.93	28.78
2697.6	28.40	30.08	32.01	28.41	28.49	28.07
2777.8	27.50	29.24	31.30	27.05	27.30	27.29
2878.1	26.39	28.04	30.19	25.82	26.10	26.62
2958.3	25.64	27.21	29.38	25.02	25.25	26.02
3058.6	25.07	26.68	28.71	24.16	24.62	25.22
3138.8	24.68	26.24	28.19	23.59	24.13	24.79
3239.1	24.29	25.78	27.61	23.03	23.69	24.38
3319.3	24.16	25.62	27.40	22.76	23.47	24.23
3419.6	24.07	25.44	27.14	22.52	23.27	24.12
3499.8	24.01	25.25	26.87	22.43	23.19	24.10
3600.1	24.10	25.01	26.48	22.28	22.93	23.88

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	33.46	33.53	34.63
110.4	140.4	34.39	35.22	36.52
210.7	240.7	35.79	36.54	37.10
310.9	340.9	37.56	38.28	39.01
411.2	441.2	39.54	39.91	40.58
511.5	541.5	40.15	41.24	42.62
611.8	641.8	42.57	43.52	43.04
712.1	742.1	46.85	47.06	44.93
792.3	822.3	48.96	46.77	42.72
892.6	922.6	48.79	44.13	41.61
972.8	1002.8	46.87	43.55	40.89
1073.1	1103.1	45.90	43.00	40.92
1153.3	1183.3	46.85	43.66	40.99
1253.6	1283.6	44.00	44.09	41.53
1333.8	1363.8	41.04	43.03	41.19
1434.1	1464.1	39.95	43.21	42.65
1514.3	1544.3	39.57	43.96	44.86
1614.6	1644.6	39.26	42.82	47.04
1694.8	1724.8	37.72	40.34	44.18
1795.1	1825.1	36.18	37.47	39.98
1875.3	1905.3	35.15	35.83	37.85
1975.6	2005.6	34.89	35.30	36.99
2055.8	2085.8	35.27	35.62	37.34
2156.1	2186.1	37.23	37.26	38.62
2236.3	2266.3	38.97	39.14	40.37
2336.6	2366.6	42.06	42.29	42.98
2416.8	2446.8	45.40	44.56	45.33
2517.1	2547.1	43.22	42.53	42.84
2597.3	2627.3	42.75	44.24	45.93
2697.6	2727.6	40.09	41.24	44.40
2777.8	2807.8	38.32	38.72	41.19
2878.1	2908.1	36.25	36.33	37.73
2958.3	2988.3	35.07	34.95	36.26
3058.6	3088.6	33.99	33.56	34.68
3138.8	3168.8	33.27	32.88	33.91
3239.1	3269.1	32.27	31.66	32.79
3319.3	3349.3	31.85	31.06	32.04
3419.6	3449.6	31.69	30.98	32.02
3499.8	3529.8	30.99	30.71	31.93
3600.1	3630.1	29.25	30.07	31.11

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=2400.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.32	1.16	1.08	10.1	1.03	1.51	2.18	10.0	1.50	1.20	1.18
110.4	140.4	1.40	1.23	1.12	110.4	1.04	1.54	2.25	16.2	1.41	1.07	1.12
210.7	240.7	1.44	1.29	1.21	210.7	1.11	1.52	2.22	22.3	1.34	1.02	1.16
310.9	340.9	1.62	1.45	1.35	310.9	1.12	1.50	2.18	28.5	1.36	1.05	1.14
411.2	441.2	1.76	1.58	1.49	411.2	1.20	1.48	2.12	34.6	1.33	1.06	1.17
511.5	541.5	1.97	1.77	1.66	511.5	1.21	1.42	2.04	40.8	1.33	1.06	1.17
611.8	641.8	2.20	1.98	1.85	611.8	1.27	1.40	1.97	46.9	1.29	1.08	1.21
712.1	742.1	2.34	2.12	2.00	712.1	1.30	1.33	1.88	53.1	1.26	1.09	1.23
792.3	822.3	2.46	2.26	2.14	792.3	1.36	1.31	1.81	59.2	1.26	1.07	1.22
892.6	922.6	2.54	2.37	2.26	892.6	1.43	1.27	1.73	65.4	1.25	1.06	1.21
972.8	1002.8	2.62	2.43	2.33	972.8	1.49	1.25	1.67	71.5	1.24	1.06	1.22
1073.1	1103.1	2.67	2.48	2.38	1073.1	1.57	1.23	1.60	77.7	1.25	1.06	1.21
1153.3	1183.3	2.70	2.48	2.37	1153.3	1.61	1.23	1.56	83.8	1.26	1.06	1.20
1253.6	1283.6	2.73	2.46	2.33	1253.6	1.61	1.19	1.50	90.0	1.28	1.05	1.19
1333.8	1363.8	2.73	2.43	2.28	1333.8	1.61	1.16	1.46	96.2	1.28	1.05	1.19
1434.1	1464.1	2.67	2.39	2.22	1434.1	1.59	1.10	1.42	102.3	1.30	1.07	1.19
1514.3	1544.3	2.59	2.31	2.14	1514.3	1.58	1.04	1.40	108.5	1.30	1.07	1.19
1614.6	1644.6	2.46	2.22	2.08	1614.6	1.57	1.03	1.40	114.6	1.31	1.08	1.20
1694.8	1724.8	2.41	2.18	2.04	1694.8	1.55	1.06	1.42	120.8	1.31	1.09	1.20
1795.1	1825.1	2.51	2.27	2.13	1795.1	1.52	1.08	1.46	126.9	1.31	1.11	1.21
1875.3	1905.3	2.60	2.37	2.22	1875.3	1.47	1.11	1.49	133.1	1.30	1.12	1.23
1975.6	2005.6	2.72	2.50	2.35	1975.6	1.40	1.16	1.56	139.2	1.31	1.12	1.23
2055.8	2085.8	2.78	2.55	2.40	2055.8	1.35	1.20	1.61	145.4	1.30	1.13	1.25
2156.1	2186.1	2.72	2.49	2.35	2156.1	1.28	1.27	1.69	151.5	1.28	1.13	1.26
2236.3	2266.3	2.60	2.40	2.26	2236.3	1.22	1.32	1.76	157.7	1.27	1.13	1.26
2336.6	2366.6	2.43	2.27	2.14	2336.6	1.16	1.39	1.83	163.8	1.27	1.13	1.26
2416.8	2446.8	2.30	2.13	2.03	2416.8	1.14	1.46	1.91	170.0	1.27	1.13	1.26
2517.1	2547.1	2.14	1.99	1.88	2517.1	1.14	1.52	1.96	176.2	1.27	1.12	1.25
2597.3	2627.3	1.99	1.84	1.74	2597.3	1.18	1.58	2.02	182.3	1.28	1.12	1.25
2697.6	2727.6	1.85	1.71	1.61	2697.6	1.26	1.66	2.08	188.5	1.29	1.12	1.24
2777.8	2807.8	1.78	1.64	1.53	2777.8	1.33	1.72	2.12	194.6	1.30	1.13	1.24
2878.1	2908.1	1.70	1.54	1.44	2878.1	1.45	1.81	2.19	200.8	1.31	1.14	1.25
2958.3	2988.3	1.64	1.47	1.38	2958.3	1.54	1.88	2.23	206.9	1.32	1.15	1.26
3058.6	3088.6	1.56	1.42	1.31	3058.6	1.68	1.97	2.29	213.1	1.33	1.16	1.26
3138.8	3168.8	1.54	1.39	1.28	3138.8	1.79	2.04	2.32	219.2	1.33	1.18	1.28
3239.1	3269.1	1.54	1.38	1.26	3239.1	1.94	2.14	2.38	225.4	1.34	1.19	1.28
3319.3	3349.3	1.58	1.39	1.27	3319.3	2.08	2.24	2.44	231.5	1.33	1.19	1.29
3419.6	3449.6	1.62	1.42	1.30	3419.6	2.27	2.35	2.51	237.7	1.34	1.21	1.30
3499.8	3529.8	1.71	1.47	1.34	3499.8	2.42	2.46	2.58	243.8	1.33	1.21	1.31
3600.1	3630.1	1.84	1.51	1.38	3600.1	2.61	2.59	2.67	250.0	1.33	1.22	1.32

Frequency Mixer

SYM-24DH+

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	7	29	29	29	40	28	45	45	75
1	-	31	+0	43	15	45	28	42	56	42	56	70
2	99	52	61	60	60	50	80	61	67	65	61	69
3	>100	84	69	77	58	76	58	91	63	81	80	87
4	>100	>92	>92	89	>92	82	>92	88	>92	>92	>92	>92
5	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
6	>100	>92	>92	>92	>92	>92	>92	92	>92	>92	>92	>92
7	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
8	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>100	>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: 1900.1 MHz; -1.00 dBm.
 LO IN: 1930.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -8.25 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	17	39	38	43	50	43	58	65	79
1	-	31	+0	45	16	45	32	46	69	46	59	64
2	84	44	52	52	48	42	69	54	58	75	60	64
3	>100	63	57	60	41	60	40	69	47	61	67	63
4	>100	68	79	61	69	64	68	61	74	68	76	68
5	>100	84	66	92	63	78	59	75	60	94	65	77
6	>100	93	95	86	93	84	87	91	80	80	83	85
7	>100	96	101	100	91	99	88	87	85	83	82	97
8	>100	>102	>102	>102	>102	98	100	94	94	93	89	90
9	>100	>102	>102	>102	>102	>102	>102	>102	101	>102	>102	>102
10	>100	>102	>102	>102	>102	>102	>102	>102	>102	100	>102	>102
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1900.1 MHz; 9.00 dBm.
 LO IN: 1930.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; 1.75 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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