

# Frequency Mixer

# SYM-30DMHW+

## 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
5.1	35.1	7.20	6.58	6.25	10.1	40.1	25.06	26.14	25.38	10.1	40.1	0.53	0.21	0.09
8.1	38.1	7.10	6.49	6.14	110.4	140.4	21.07	23.13	23.23	110.4	140.4	0.37	0.15	0.07
10.1	40.1	7.07	6.43	6.12	210.6	240.6	19.99	20.63	21.12	210.6	240.6	0.37	0.14	0.06
50.1	80.1	6.98	6.40	6.07	310.9	340.9	18.47	19.14	21.00	310.9	340.9	0.30	0.08	0.02
110.4	140.4	7.19	6.54	6.24	411.1	441.1	17.48	19.17	21.58	411.1	441.1	0.30	0.09	0.04
210.6	240.6	7.29	6.61	6.30	511.4	541.4	17.36	20.09	22.82	511.4	541.4	0.26	0.10	0.08
310.9	340.9	7.47	6.77	6.41	611.6	641.6	16.73	20.29	24.22	611.6	641.6	0.18	0.12	0.08
411.1	441.1	7.54	6.81	6.40	711.9	741.9	17.20	21.30	25.70	711.9	741.9	0.19	0.15	0.09
511.4	541.4	7.66	6.84	6.38	812.1	842.1	17.72	22.45	25.53	812.1	842.1	0.18	0.14	0.08
611.6	641.6	7.82	6.88	6.41	912.4	942.4	18.73	22.26	23.27	912.4	942.4	0.23	0.18	0.10
711.9	741.9	7.80	6.83	6.39	1012.6	1042.6	21.31	23.80	25.53	1012.6	1042.6	0.37	0.15	0.10
812.1	842.1	7.85	6.85	6.44	1112.9	1142.9	20.80	24.36	23.86	1112.9	1142.9	0.35	0.16	0.11
912.4	942.4	7.81	6.86	6.47	1213.1	1243.1	20.67	22.02	22.75	1213.1	1243.1	0.25	0.11	0.10
1012.6	1042.6	7.76	6.87	6.52	1313.4	1343.4	19.49	20.13	21.46	1313.4	1343.4	0.32	0.13	0.12
1112.9	1142.9	7.73	6.94	6.57	1413.6	1443.6	18.89	19.90	20.54	1413.6	1443.6	0.32	0.14	0.11
1413.6	1443.6	7.65	6.83	6.52	1513.9	1543.9	18.64	19.59	20.88	1513.9	1543.9	0.35	0.16	0.11
1513.9	1543.9	7.64	6.80	6.49	1614.1	1644.1	19.54	19.48	21.05	1614.1	1644.1	0.41	0.19	0.11
1614.1	1644.1	7.66	6.76	6.46	1714.4	1744.4	21.66	20.52	21.32	1714.4	1744.4	0.37	0.18	0.11
1714.4	1744.4	7.66	6.75	6.46	1814.6	1844.6	23.10	22.32	22.28	1814.6	1844.6	0.33	0.17	0.10
1814.6	1844.6	7.77	6.83	6.51	1914.9	1944.9	22.25	25.91	24.26	1914.9	1944.9	0.25	0.13	0.08
1914.9	1944.9	8.01	6.99	6.63	2015.1	2045.1	19.88	26.15	26.83	2015.1	2045.1	0.26	0.12	0.08
2015.1	2045.1	8.17	7.18	6.79	2115.4	2145.4	18.16	23.12	29.23	2115.4	2145.4	0.17	0.09	0.08
2215.6	2245.6	8.89	7.73	7.23	2215.6	2245.6	17.11	21.83	27.52	2215.6	2245.6	0.07	0.06	0.07
2315.9	2345.9	9.18	8.01	7.43	2315.9	2345.9	17.71	22.08	25.34	2315.9	2345.9	0.01	0.04	0.07
2416.1	2446.1	9.25	7.96	7.44	2416.1	2446.1	18.54	21.20	21.81	2416.1	2446.1	0.14	0.21	0.20
2516.4	2546.4	9.03	7.80	7.26	2516.4	2546.4	17.86	19.21	19.87	2516.4	2546.4	0.41	0.39	0.35
2616.6	2646.6	8.72	7.65	7.15	2616.6	2646.6	17.09	17.88	18.23	2616.6	2646.6	0.56	0.52	0.47
2716.9	2746.9	8.57	7.60	7.15	2716.9	2746.9	15.94	16.85	17.26	2716.9	2746.9	0.69	0.59	0.52
2817.1	2847.1	8.34	7.50	7.12	2817.1	2847.1	15.08	15.98	16.51	2817.1	2847.1	0.82	0.66	0.55
2917.4	2947.4	8.27	7.45	7.12	2917.4	2947.4	14.66	15.68	16.20	2917.4	2947.4	0.87	0.65	0.54
3017.6	3047.6	8.19	7.53	7.22	3017.6	3047.6	14.23	15.16	15.94	3017.6	3047.6	0.93	0.65	0.53
3117.9	3147.9	8.24	7.63	7.35	3117.9	3147.9	14.16	15.25	16.20	3117.9	3147.9	0.90	0.59	0.47
3238.2	3268.2	8.44	7.82	7.53	3238.2	3268.2	14.03	15.11	16.62	3238.2	3268.2	0.87	0.57	0.45
3338.4	3368.4	8.66	8.09	7.79	3338.4	3368.4	13.84	15.04	16.51	3338.4	3368.4	0.82	0.51	0.39
3458.7	3488.7	9.04	8.45	8.15	3458.7	3488.7	14.07	15.62	17.67	3458.7	3488.7	0.71	0.45	0.35
3559.0	3589.0	9.41	8.81	8.47	3559.0	3589.0	14.29	16.22	18.63	3559.0	3589.0	0.66	0.40	0.31
3679.3	3709.3	9.86	9.20	8.86	3679.3	3709.3	15.30	17.72	20.15	3679.3	3709.3	0.55	0.32	0.26
3779.5	3809.5	10.28	9.62	9.23	3779.5	3809.5	16.18	18.15	20.99	3779.5	3809.5	0.50	0.26	0.23
3899.8	3929.8	10.80	10.10	9.72	3899.8	3929.8	18.19	19.39	22.00	3899.8	3929.8	0.48	0.20	0.16
4000.1	4030.1	11.24	10.53	10.13	4000.1	4030.1	20.37	20.33	21.94	4000.1	4030.1	0.56	0.21	0.16



# Frequency Mixer

# SYM-30DMHW+

## Typical Performance Data

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)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
1490.0	10.1	7.32	10.0	20.1	6.42	1500.0	1500.1	7.76
1449.5	50.6	7.41	50.8	60.9	6.33	1460.3	1539.8	7.87
1408.9	91.2	7.49	91.6	101.7	6.35	1420.5	1579.6	7.89
1368.4	131.7	7.37	132.5	142.6	6.29	1380.8	1619.3	7.91
1327.8	172.3	7.47	173.3	183.4	6.44	1341.1	1659.0	7.96
1287.3	212.8	7.53	214.1	224.2	6.35	1301.3	1698.8	7.96
1246.7	253.4	7.49	254.9	265.0	6.41	1261.6	1738.5	7.99
1206.2	293.9	7.58	295.8	305.9	6.41	1221.9	1778.2	7.99
1165.6	334.5	7.52	336.6	346.7	6.36	1182.1	1818.0	8.01
1125.1	375.0	7.41	377.4	387.5	6.42	1142.4	1857.7	8.03
1084.5	415.6	7.61	418.2	428.3	6.38	1102.7	1897.4	7.99
1044.0	456.1	7.58	459.0	469.1	6.41	1062.9	1937.2	8.01
1003.4	496.7	7.54	499.9	510.0	6.39	1023.2	1976.9	7.94
962.9	537.2	7.52	540.7	550.8	6.40	983.5	2016.6	7.92
922.3	577.8	7.51	581.5	591.6	6.39	943.7	2056.4	7.89
881.8	618.3	7.42	622.3	632.4	6.36	904.0	2096.1	7.82
841.2	658.9	7.46	663.2	673.3	6.45	864.3	2135.8	7.82
800.7	699.4	7.39	704.0	714.1	6.46	824.5	2175.6	7.74
760.1	740.0	7.33	744.8	754.9	6.46	784.8	2215.3	7.69
719.6	780.5	7.34	785.6	795.7	6.46	745.1	2255.0	7.64
679.0	821.1	7.24	826.4	836.5	6.48	705.3	2294.8	7.55
638.5	861.6	7.21	867.3	877.4	6.53	665.6	2334.5	7.55
597.9	902.2	7.24	908.1	918.2	6.50	625.9	2374.2	7.44
557.4	942.7	7.21	948.9	959.0	6.52	586.1	2414.0	7.38
516.8	983.3	7.16	989.7	999.8	6.57	546.4	2453.7	7.31
476.3	1023.8	7.14	1030.5	1040.6	6.57	506.7	2493.4	7.21
435.8	1064.3	7.16	1071.4	1081.5	6.62	466.9	2533.2	7.21
395.2	1104.9	7.14	1112.2	1122.3	6.63	427.2	2572.9	7.16
354.7	1145.4	7.12	1153.0	1163.1	6.67	387.5	2612.6	7.15
314.1	1186.0	7.07	1193.8	1203.9	6.70	347.7	2652.4	7.11
273.6	1226.5	7.00	1234.7	1244.8	6.74	308.0	2692.1	7.12
253.3	1246.8	7.01	1255.1	1265.2	6.73	268.3	2731.8	7.17
212.7	1287.4	6.96	1295.9	1306.0	6.74	228.5	2771.6	7.16
192.5	1307.6	6.93	1316.3	1326.4	6.70	188.8	2811.3	7.19
151.9	1348.2	6.89	1357.1	1367.2	6.74	149.1	2851.0	7.22
131.6	1368.5	6.88	1377.5	1387.6	6.72	129.2	2870.9	7.21
91.1	1409.0	6.78	1418.4	1428.5	6.77	89.5	2910.6	7.27
70.8	1429.3	6.81	1438.8	1448.9	6.78	69.6	2930.5	7.29
30.3	1469.8	6.76	1479.6	1489.7	6.82	29.9	2970.2	7.35
10.0	1490.1	6.84	1500.0	1510.1	6.83	10.0	2990.1	7.46



# Frequency Mixer

# SYM-30DMHW+

## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
5.1	32.84	36.03	39.25	35.27	38.39	41.02
8.1	33.26	36.24	39.38	36.96	40.31	43.23
10.1	33.21	36.18	39.20	37.54	41.08	44.12
50.1	32.80	35.70	38.66	39.55	43.60	47.30
110.4	31.88	34.41	36.76	40.15	44.28	47.78
210.6	31.91	34.46	36.66	40.56	44.55	47.32
310.9	32.09	34.55	36.55	41.15	45.13	46.41
411.1	32.08	34.46	36.24	42.23	45.83	45.33
511.4	32.26	34.57	36.42	43.47	45.85	44.14
611.6	32.30	34.58	36.42	44.96	45.98	43.20
711.9	32.57	35.10	37.23	46.48	45.91	42.39
812.1	32.81	35.42	37.79	48.10	44.85	41.35
912.4	33.28	36.16	38.88	49.44	44.67	41.05
1012.6	34.05	37.50	40.66	51.14	44.99	41.13
1112.9	34.92	38.68	42.37	53.74	46.43	41.67
1413.6	35.67	40.12	46.31	47.71	53.49	44.66
1513.9	35.30	40.17	47.72	44.22	51.50	45.90
1614.1	34.80	39.82	47.68	42.50	49.72	48.01
1714.4	33.93	38.78	46.18	41.37	48.10	51.17
1814.6	33.27	37.38	43.87	40.74	47.18	56.26
1914.9	32.65	35.93	40.64	39.98	44.93	55.47
2015.1	32.27	34.68	37.84	39.40	43.02	50.03
2215.6	31.63	32.71	34.06	38.98	41.51	45.99
2315.9	31.21	31.93	32.79	39.07	41.51	45.40
2416.1	30.73	31.55	32.52	39.11	41.83	45.52
2516.4	30.34	31.27	32.65	39.51	42.53	46.05
2616.6	30.20	31.13	32.59	39.82	42.95	45.76
2716.9	30.18	31.35	33.01	40.21	43.09	44.18
2817.1	30.49	32.02	33.97	40.52	42.82	42.29
2917.4	30.80	32.60	34.91	41.37	41.95	40.68
3017.6	31.24	33.56	36.16	41.58	40.89	38.65
3117.9	31.99	34.66	37.28	41.01	39.45	37.09
3238.2	33.39	36.60	37.89	39.42	37.38	35.21
3338.4	34.34	37.53	36.72	37.96	35.68	33.90
3458.7	35.46	37.51	34.77	36.27	34.37	32.98
3559.0	36.15	36.90	33.62	34.88	33.31	32.13
3679.3	36.65	35.32	32.60	33.24	31.93	31.27
3779.5	36.38	34.30	32.08	31.99	31.16	30.75
3899.8	35.15	33.31	31.56	30.32	30.07	29.85
4000.1	33.93	32.53	31.28	29.01	28.96	28.92

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	31.69	31.72	31.55
110.4	140.4	32.80	32.93	32.83
210.6	240.6	33.42	33.80	34.20
310.9	340.9	34.29	34.64	34.78
411.1	441.1	35.38	35.75	36.15
511.4	541.4	36.49	36.84	36.57
611.6	641.6	38.02	38.20	37.71
711.9	741.9	39.72	39.17	38.75
812.1	842.1	42.14	40.92	39.92
912.4	942.4	43.07	41.52	40.12
1012.6	1042.6	41.52	40.92	40.68
1112.9	1142.9	40.86	40.99	41.34
1213.1	1243.1	40.70	41.28	41.64
1313.4	1343.4	40.26	40.74	40.48
1413.6	1443.6	39.51	39.49	39.33
1513.9	1543.9	38.66	38.14	37.69
1614.1	1644.1	37.36	37.05	36.51
1714.4	1744.4	36.47	36.18	36.02
1814.6	1844.6	36.30	36.51	36.23
1914.9	1944.9	36.83	37.47	37.57
2015.1	2045.1	36.91	37.90	37.86
2115.4	2145.4	36.01	36.35	36.36
2215.6	2245.6	34.70	34.61	34.65
2315.9	2345.9	33.25	33.04	32.84
2416.1	2446.1	31.88	31.45	31.20
2516.4	2546.4	30.61	30.09	29.83
2616.6	2646.6	29.61	29.18	28.92
2716.9	2746.9	28.77	28.43	28.27
2817.1	2847.1	28.03	27.79	27.79
2917.4	2947.4	27.43	27.30	27.40
3017.6	3047.6	26.91	26.82	26.82
3117.9	3147.9	26.72	26.81	26.77
3238.2	3268.2	26.38	26.73	26.83
3338.4	3368.4	26.15	26.50	26.49
3458.7	3488.7	26.14	26.44	26.47
3559.0	3589.0	26.32	26.75	26.85
3679.3	3709.3	26.64	27.20	27.50
3779.5	3809.5	26.76	27.41	27.74
3899.8	3929.8	27.18	27.84	28.12
4000.1	4030.1	27.81	28.38	28.64



# Frequency Mixer

# SYM-30DMHW+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3000.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
5.1	35.1	1.23	1.15	1.15	5.1	1.15	1.57	2.33	5.1	1.83	1.57	1.42
8.1	38.1	1.21	1.11	1.10	8.1	1.10	1.57	2.30	10.1	1.89	1.61	1.45
10.1	40.1	1.20	1.09	1.08	10.1	1.08	1.56	2.32	49.7	1.74	1.47	1.32
50.1	80.1	1.19	1.06	1.06	50.1	1.03	1.56	2.31	89.5	1.76	1.48	1.34
110.4	140.4	1.21	1.07	1.04	110.4	1.08	1.53	2.20	129.2	1.80	1.51	1.36
210.6	240.6	1.26	1.13	1.06	210.6	1.18	1.54	2.18	168.9	1.78	1.50	1.35
310.9	340.9	1.35	1.21	1.14	310.9	1.23	1.55	2.20	208.7	1.76	1.48	1.33
411.1	441.1	1.44	1.30	1.22	411.1	1.35	1.53	2.09	248.4	1.80	1.51	1.35
511.4	541.4	1.55	1.40	1.30	511.4	1.43	1.50	2.01	288.1	1.80	1.51	1.36
611.6	641.6	1.71	1.53	1.42	611.6	1.53	1.51	1.96	327.9	1.80	1.51	1.35
711.9	741.9	1.85	1.64	1.53	711.9	1.63	1.49	1.88	367.6	1.86	1.56	1.40
812.1	842.1	2.00	1.77	1.65	812.1	1.74	1.47	1.79	407.3	1.84	1.55	1.39
912.4	942.4	2.15	1.90	1.76	912.4	1.87	1.49	1.71	447.1	1.86	1.57	1.39
1012.6	1042.6	2.23	1.96	1.82	1012.6	2.02	1.51	1.64	486.8	1.88	1.59	1.41
1112.9	1142.9	2.34	2.08	1.94	1112.9	2.16	1.55	1.57	526.5	1.83	1.54	1.37
1213.1	1243.1	2.47	2.20	2.05	1213.1	2.32	1.58	1.50	566.3	1.86	1.55	1.38
1413.6	1443.6	2.54	2.22	2.04	1413.6	2.55	1.64	1.36	606.0	1.89	1.58	1.40
1513.9	1543.9	2.54	2.19	2.01	1513.9	2.62	1.65	1.30	645.7	1.87	1.56	1.37
1614.1	1644.1	2.52	2.13	1.94	1614.1	2.63	1.64	1.23	685.5	1.94	1.61	1.41
1714.4	1744.4	2.46	2.04	1.85	1714.4	2.61	1.62	1.17	725.2	1.95	1.62	1.42
1814.6	1844.6	2.37	2.00	1.79	1814.6	2.57	1.59	1.11	764.9	1.93	1.60	1.40
1914.9	1944.9	2.36	2.00	1.81	1914.9	2.51	1.55	1.07	804.7	2.03	1.67	1.46
2015.1	2045.1	2.35	2.04	1.87	2015.1	2.44	1.52	1.09	844.4	2.00	1.65	1.44
2215.6	2245.6	2.39	2.15	2.02	2215.6	2.29	1.47	1.23	884.1	2.01	1.66	1.45
2315.9	2345.9	2.39	2.18	2.04	2315.9	2.20	1.46	1.31	923.9	2.10	1.73	1.50
2416.1	2446.1	2.33	2.10	1.99	2416.1	2.10	1.45	1.39	963.6	2.05	1.69	1.47
2516.4	2546.4	2.14	1.94	1.83	2516.4	1.99	1.43	1.46	1003.3	2.09	1.71	1.49
2616.6	2646.6	1.90	1.74	1.64	2616.6	1.88	1.42	1.53	1043.1	2.12	1.73	1.51
2716.9	2746.9	1.70	1.56	1.48	2716.9	1.77	1.41	1.60	1082.8	2.03	1.67	1.45
2817.1	2847.1	1.53	1.41	1.36	2817.1	1.66	1.42	1.67	1122.5	2.08	1.70	1.48
2917.4	2947.4	1.38	1.29	1.26	2917.4	1.56	1.44	1.75	1162.3	2.10	1.71	1.48
3017.6	3047.6	1.24	1.21	1.24	3017.6	1.47	1.47	1.82	1202.0	2.03	1.66	1.44
3117.9	3147.9	1.17	1.22	1.31	3117.9	1.40	1.51	1.90	1241.7	2.07	1.69	1.47
3238.2	3268.2	1.20	1.34	1.46	3238.2	1.32	1.54	1.96	1281.5	2.02	1.65	1.43
3338.4	3368.4	1.30	1.47	1.62	3338.4	1.29	1.59	2.01	1321.2	1.95	1.60	1.39
3458.7	3488.7	1.47	1.66	1.83	3458.7	1.30	1.66	2.09	1360.9	1.97	1.62	1.41
3559.0	3589.0	1.64	1.84	2.03	3559.0	1.35	1.74	2.18	1380.8	1.95	1.60	1.40
3679.3	3709.3	1.87	2.12	2.30	3679.3	1.44	1.85	2.30	1420.5	1.83	1.51	1.32
3779.5	3809.5	2.08	2.33	2.51	3779.5	1.52	1.95	2.40	1440.4	1.83	1.52	1.33
3899.8	3929.8	2.33	2.58	2.75	3899.8	1.65	2.08	2.54	1480.1	1.84	1.52	1.34
4000.1	4030.1	2.55	2.77	2.95	4000.1	1.77	2.19	2.65	1500.0	1.80	1.49	1.30

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	13	21	18	30	30	28	44	43	44
1	-	53	+0	44	16	48	28	42	44	42	46	50
2	>100	49	56	54	61	53	75	58	61	68	64	71
3	>100	>87	62	>87	66	80	64	>87	72	74	74	78
4	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
5	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
6	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
7	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
8	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1500.1 MHz; -6.00 dBm.  
 LO IN: 1530.01 MHz; +13.00 dBm  
 IF OUT: 29.91 MHz; -13.12 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	23	32	29	39	41	39	54	64	75
1	-	51	+0	43	16	47	29	44	44	45	51	54
2	>100	40	46	45	52	44	67	53	57	68	59	71
3	>100	70	42	69	48	66	47	78	58	58	59	60
4	>100	76	74	62	74	65	72	64	80	68	69	72
5	>100	83	77	82	63	85	64	77	64	87	68	73
6	>100	>97	90	88	89	76	90	75	84	72	>97	78
7	>100	93	93	90	91	94	83	93	84	87	81	91
8	>100	>97	>97	>97	>97	>97	>97	90	>97	92	>97	87
9	>100	>97	>97	>97	>97	>97	>97	>97	>97	>97	95	>97
10	>100	>97	>97	>97	>97	>97	>97	>97	>97	>97	>97	96
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1500.1 MHz; 4.00 dBm.  
 LO IN: 1530.01 MHz; +13.00 dBm  
 IF OUT: 29.91 MHz; -3.19 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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