

Frequency Mixer

SYM-11J

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
1.0	31.0	7.07	6.77	6.67
2.8	32.8	6.56	6.36	6.26
7.7	37.7	6.41	6.21	6.01
10.1	40.1	6.21	5.95	5.79
90.1	120.1	6.44	6.16	5.99
170.1	200.1	6.76	6.41	6.17
250.1	280.1	7.13	6.64	6.28
330.1	360.1	7.43	6.77	6.35
490.1	520.1	7.90	7.10	6.68
570.1	600.1	8.06	7.28	6.87
650.1	680.1	8.23	7.61	7.25
730.1	760.1	8.37	7.80	7.47
810.1	840.1	8.29	7.86	7.60
890.1	920.1	8.08	7.73	7.54
970.1	1000.1	7.89	7.55	7.40
1050.1	1080.1	7.81	7.43	7.30
1130.1	1160.1	7.79	7.38	7.23
1210.1	1240.1	7.92	7.43	7.24
1290.1	1320.1	8.08	7.53	7.30
1370.1	1400.1	8.20	7.62	7.38
1450.1	1480.1	8.23	7.65	7.39
1550.1	1580.1	8.13	7.55	7.28
1630.1	1660.1	8.09	7.53	7.26
1730.1	1760.1	7.98	7.47	7.21
1910.1	1940.1	7.67	7.22	6.97
1990.1	2020.1	7.54	7.11	6.87
2090.1	2120.1	7.53	7.08	6.86
2170.1	2200.1	7.54	7.11	6.86
2270.1	2300.1	7.57	7.12	6.87
2350.1	2380.1	7.62	7.20	6.94
2450.1	2480.1	7.76	7.34	7.10
2530.1	2560.1	7.85	7.43	7.22
2630.1	2660.1	8.03	7.61	7.38
2810.1	2840.1	8.55	8.07	7.87
2890.1	2920.1	8.83	8.29	8.05
2990.1	3020.1	9.26	8.66	8.39
3070.1	3100.1	9.61	9.00	8.71
3170.1	3200.1	10.20	9.46	9.18
3250.1	3280.1	10.69	9.84	9.51
3350.1	3380.1	11.49	10.46	10.10

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	15.74	15.34	14.22
90.1	120.1	8.81	8.55	9.01
170.1	200.1	6.46	7.68	10.15
250.1	280.1	6.20	8.89	12.24
330.1	360.1	7.54	10.77	14.35
410.1	440.1	8.81	12.33	13.39
490.1	520.1	8.86	10.75	14.03
570.1	600.1	8.67	10.69	12.60
650.1	680.1	8.76	9.98	11.46
730.1	760.1	8.35	9.60	10.49
810.1	840.1	8.00	9.74	10.41
890.1	920.1	8.87	9.63	12.64
970.1	1000.1	10.00	10.34	11.37
1050.1	1080.1	11.58	12.54	12.91
1130.1	1160.1	13.77	11.51	14.05
1210.1	1240.1	13.65	14.52	12.50
1290.1	1320.1	12.37	14.03	15.16
1370.1	1400.1	13.27	13.37	18.47
1450.1	1480.1	11.18	12.56	13.71
1550.1	1580.1	10.75	11.39	13.67
1630.1	1660.1	11.06	11.39	13.62
1730.1	1760.1	9.44	11.64	11.92
1810.1	1840.1	10.07	10.43	12.30
1910.1	1940.1	10.17	10.72	10.67
1990.1	2020.1	9.12	10.18	12.23
2090.1	2120.1	8.91	9.89	11.24
2170.1	2200.1	9.05	9.69	10.86
2270.1	2300.1	9.10	9.64	10.70
2350.1	2380.1	10.44	10.46	11.00
2450.1	2480.1	10.22	9.98	12.19
2530.1	2560.1	9.66	10.03	11.91
2630.1	2660.1	9.79	9.65	11.70
2710.1	2740.1	9.70	11.87	11.92
2810.1	2840.1	10.74	12.48	13.13
2890.1	2920.1	12.46	13.24	12.77
2990.1	3020.1	12.32	13.33	13.43
3070.1	3100.1	17.32	14.48	16.57
3170.1	3200.1	14.62	13.17	18.75
3250.1	3280.1	16.47	16.54	15.29
3350.1	3380.1	17.21	16.25	18.95

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	1.11	0.83	0.66
90.1	120.1	1.05	0.79	0.63
170.1	200.1	1.25	0.99	0.81
250.1	280.1	1.39	1.18	1.05
330.1	360.1	1.55	1.40	1.22
410.1	440.1	1.37	1.36	1.18
490.1	520.1	1.25	1.13	1.01
570.1	600.1	1.22	1.10	0.92
650.1	680.1	0.89	0.77	0.64
730.1	760.1	0.73	0.57	0.50
810.1	840.1	0.58	0.41	0.34
890.1	920.1	0.50	0.38	0.29
970.1	1000.1	0.41	0.30	0.24
1050.1	1080.1	0.36	0.26	0.18
1130.1	1160.1	0.32	0.21	0.17
1210.1	1240.1	0.25	0.22	0.10
1290.1	1320.1	0.24	0.15	0.11
1370.1	1400.1	0.26	0.18	0.16
1450.1	1480.1	0.24	0.21	0.18
1550.1	1580.1	0.31	0.27	0.23
1630.1	1660.1	0.40	0.32	0.26
1730.1	1760.1	0.41	0.38	0.31
1810.1	1840.1	0.49	0.41	0.34
1910.1	1940.1	0.54	0.46	0.38
1990.1	2020.1	0.59	0.47	0.40
2090.1	2120.1	0.62	0.46	0.36
2170.1	2200.1	0.66	0.48	0.37
2270.1	2300.1	0.72	0.48	0.39
2350.1	2380.1	0.75	0.49	0.36
2450.1	2480.1	0.71	0.46	0.34
2530.1	2560.1	0.74	0.39	0.34
2630.1	2660.1	0.72	0.43	0.30
2710.1	2740.1	0.73	0.38	0.26
2810.1	2840.1	0.67	0.37	0.25
2890.1	2920.1	0.65	0.36	0.22
2990.1	3020.1	0.62	0.30	0.19
3070.1	3100.1	0.55	0.25	0.16
3170.1	3200.1	0.51	0.28	0.22
3250.1	3280.1	0.46	0.28	0.18
3350.1	3380.1	0.36	0.26	0.14

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1250.1MHz (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)=2500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
500.0	750.1	7.95	10.0	20.1	5.93	500.0	2000.1	7.99
487.4	762.7	7.96	22.3	32.4	5.77	487.4	2012.7	7.98
474.9	775.2	7.90	34.6	44.7	5.76	474.9	2025.2	7.95
462.3	787.8	7.83	46.9	57.0	5.79	462.3	2037.8	7.91
449.7	800.4	7.92	59.2	69.3	5.80	449.7	2050.4	7.84
437.2	812.9	7.86	71.5	81.6	5.81	437.2	2062.9	7.79
424.6	825.5	7.81	83.8	93.9	5.83	424.6	2075.5	7.77
412.1	838.0	7.88	96.2	106.3	5.81	412.1	2088.0	7.77
399.5	850.6	7.80	108.5	118.6	5.81	399.5	2100.6	7.76
386.9	863.2	7.75	120.8	130.9	5.80	386.9	2113.2	7.71
374.4	875.7	7.83	133.1	143.2	5.77	374.4	2125.7	7.65
361.8	888.3	7.82	145.4	155.5	5.77	361.8	2138.3	7.61
349.2	900.9	7.83	157.7	167.8	5.78	349.2	2150.9	7.61
336.7	913.4	7.81	170.0	180.1	5.75	336.7	2163.4	7.58
324.1	926.0	7.80	182.3	192.4	5.76	324.1	2176.0	7.56
311.5	938.6	7.77	194.6	204.7	5.73	311.5	2188.6	7.53
299.0	951.1	7.76	206.9	217.0	5.72	299.0	2201.1	7.53
286.4	963.7	7.75	219.2	229.3	5.69	286.4	2213.7	7.52
273.8	976.3	7.73	231.5	241.6	5.67	273.8	2226.3	7.50
261.3	988.8	7.71	243.8	253.9	5.67	261.3	2238.8	7.47
248.7	1001.4	7.69	256.2	266.3	5.66	248.7	2251.4	7.46
236.2	1013.9	7.70	268.5	278.6	5.68	236.2	2263.9	7.45
223.6	1026.5	7.69	280.8	290.9	5.67	223.6	2276.5	7.45
211.0	1039.1	7.69	293.1	303.2	5.67	211.0	2289.1	7.45
198.5	1051.6	7.70	305.4	315.5	5.65	198.5	2301.6	7.43
185.9	1064.2	7.69	317.7	327.8	5.66	185.9	2314.2	7.43
173.3	1076.8	7.67	330.0	340.1	5.65	173.3	2326.8	7.42
160.8	1089.3	7.66	342.3	352.4	5.65	160.8	2339.3	7.42
148.2	1101.9	7.63	354.6	364.7	5.67	148.2	2351.9	7.40
135.6	1114.5	7.63	366.9	377.0	5.67	135.6	2364.5	7.40
123.1	1127.0	7.64	379.2	389.3	5.69	123.1	2377.0	7.41
110.5	1139.6	7.63	391.5	401.6	5.71	110.5	2389.6	7.42
97.9	1152.2	7.63	403.8	413.9	5.74	97.9	2402.2	7.42
85.4	1164.7	7.60	416.2	426.3	5.75	85.4	2414.7	7.43
72.8	1177.3	7.59	428.5	438.6	5.76	72.8	2427.3	7.44
60.3	1189.8	7.55	440.8	450.9	5.80	60.3	2439.8	7.43
47.7	1202.4	7.52	453.1	463.2	5.83	47.7	2452.4	7.42
35.1	1215.0	7.48	465.4	475.5	5.88	35.1	2465.0	7.39
22.6	1227.5	7.48	477.7	487.8	5.91	22.6	2477.5	7.39
10.0	1240.1	7.65	490.0	500.1	5.94	10.0	2490.1	7.49

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
1.0	68.90	69.70	70.50	59.10	58.70	57.90
2.8	63.10	64.20	64.80	50.80	50.10	49.70
7.7	63.10	63.70	64.20	50.40	49.70	49.20
10.1	76.86	78.28	79.18	65.56	63.14	77.05
90.1	58.36	59.70	60.86	90.00	76.91	76.12
170.1	53.14	54.67	55.95	60.78	61.91	62.34
250.1	50.35	51.88	53.22	51.74	52.31	52.24
330.1	48.32	49.75	51.02	46.30	46.70	46.31
490.1	45.43	46.48	47.36	38.73	38.97	38.51
570.1	45.05	45.82	46.55	36.75	36.43	35.86
650.1	45.20	45.74	46.16	34.93	34.23	33.56
730.1	44.31	44.64	44.91	33.27	32.42	31.56
810.1	43.88	44.01	44.31	32.16	30.97	30.06
890.1	43.62	43.84	44.08	31.11	29.74	28.63
970.1	43.79	43.90	44.19	29.93	28.43	27.23
1050.1	44.32	44.31	44.41	28.99	27.38	26.07
1130.1	45.29	45.36	45.32	28.06	26.34	24.89
1210.1	46.45	46.45	45.87	27.47	25.54	24.12
1290.1	48.22	45.60	42.97	27.94	25.77	24.23
1370.1	49.94	43.89	40.67	34.55	31.74	29.91
1450.1	45.17	45.52	45.32	34.62	33.02	31.81
1550.1	41.42	42.14	42.74	30.09	28.31	27.02
1630.1	40.02	40.76	41.30	29.34	27.47	26.21
1730.1	38.53	39.47	40.11	29.40	27.51	26.09
1910.1	36.22	37.21	37.85	30.73	28.73	27.14
1990.1	35.68	36.74	37.56	32.00	29.52	28.06
2090.1	34.92	36.04	36.79	34.50	31.28	29.32
2170.1	34.16	35.17	36.00	38.43	33.56	30.94
2270.1	33.56	34.37	35.09	50.23	37.46	33.30
2350.1	33.29	34.01	34.58	43.82	39.98	35.27
2450.1	33.04	33.46	33.84	35.22	35.97	34.34
2530.1	32.86	33.10	33.26	31.69	32.41	32.07
2630.1	33.15	33.33	33.44	28.95	29.40	29.26
2810.1	33.95	34.01	33.92	26.21	26.31	26.18
2890.1	34.50	34.54	34.46	25.35	25.41	25.25
2990.1	35.06	35.10	35.10	24.36	24.36	24.22
3070.1	35.53	35.17	35.15	23.81	23.66	23.54
3170.1	35.82	35.11	34.77	23.25	23.20	23.17
3250.1	35.93	34.94	34.39	23.09	23.07	22.98
3350.1	35.47	34.28	33.57	23.22	23.12	23.07

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	20.08	20.05	20.67
90.1	120.1	20.47	20.76	20.94
170.1	200.1	21.18	21.56	21.83
250.1	280.1	22.07	22.63	23.12
330.1	360.1	23.09	23.72	24.23
410.1	440.1	24.34	24.77	25.14
490.1	520.1	26.02	26.24	26.36
570.1	600.1	27.27	27.56	27.77
650.1	680.1	27.91	28.05	28.27
730.1	760.1	29.20	29.14	29.23
810.1	840.1	30.61	30.57	30.64
890.1	920.1	31.83	31.79	31.96
970.1	1000.1	31.28	31.50	31.76
1050.1	1080.1	30.43	30.62	30.81
1130.1	1160.1	29.17	29.65	29.84
1210.1	1240.1	27.89	28.68	29.20
1290.1	1320.1	25.30	26.10	26.71
1370.1	1400.1	21.20	21.70	22.09
1450.1	1480.1	19.43	19.78	19.98
1550.1	1580.1	18.56	18.91	19.06
1630.1	1660.1	18.09	18.23	18.40
1730.1	1760.1	17.50	17.77	18.02
1810.1	1840.1	17.32	17.60	17.82
1910.1	1940.1	17.28	17.67	17.98
1990.1	2020.1	17.45	17.88	18.24
2090.1	2120.1	17.90	18.45	18.79
2170.1	2200.1	18.48	19.14	19.66
2270.1	2300.1	19.30	20.03	20.61
2350.1	2380.1	19.95	20.48	20.89
2450.1	2480.1	20.08	20.31	20.41
2530.1	2560.1	19.91	19.87	19.82
2630.1	2660.1	19.49	19.32	19.18
2710.1	2740.1	19.13	18.93	18.84
2810.1	2840.1	18.66	18.53	18.42
2890.1	2920.1	18.37	18.16	18.07
2990.1	3020.1	18.15	17.82	17.59
3070.1	3100.1	17.85	17.46	17.19
3170.1	3200.1	17.70	17.13	16.82
3250.1	3280.1	17.40	16.92	16.61
3350.1	3380.1	16.99	16.60	16.33



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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
1.0	31.0	1.85	2.72	3.86
2.8	32.8	1.88	2.72	3.86
7.7	37.7	1.85	2.68	3.79
10.1	40.1	1.08	1.03	1.09
90.1	120.1	1.16	1.07	1.04
170.1	200.1	1.31	1.23	1.19
250.1	280.1	1.60	1.52	1.47
330.1	360.1	2.04	1.92	1.84
490.1	520.1	3.17	2.92	2.77
570.1	600.1	3.71	3.42	3.24
650.1	680.1	4.04	3.80	3.63
730.1	760.1	4.26	4.03	3.86
810.1	840.1	4.24	4.07	3.95
890.1	920.1	4.04	3.91	3.81
970.1	1000.1	3.85	3.68	3.58
1050.1	1080.1	3.67	3.44	3.31
1130.1	1160.1	3.56	3.25	3.08
1210.1	1240.1	3.53	3.19	2.98
1290.1	1320.1	3.56	3.22	3.01
1370.1	1400.1	3.47	3.16	2.96
1450.1	1480.1	3.34	3.04	2.85
1550.1	1580.1	3.12	2.82	2.64
1630.1	1660.1	2.89	2.64	2.47
1730.1	1760.1	2.60	2.40	2.25
1910.1	1940.1	2.09	1.92	1.79
1990.1	2020.1	1.92	1.77	1.66
2090.1	2120.1	1.74	1.60	1.50
2170.1	2200.1	1.60	1.47	1.37
2270.1	2300.1	1.49	1.36	1.28
2350.1	2380.1	1.42	1.33	1.28
2450.1	2480.1	1.37	1.32	1.29
2530.1	2560.1	1.35	1.32	1.32
2630.1	2660.1	1.38	1.38	1.42
2810.1	2840.1	1.48	1.51	1.56
2890.1	2920.1	1.54	1.57	1.62
2990.1	3020.1	1.66	1.68	1.74
3070.1	3100.1	1.75	1.77	1.82
3170.1	3200.1	1.85	1.84	1.87
3250.1	3280.1	1.92	1.89	1.89
3350.1	3380.1	2.01	1.96	1.96

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
1.0	1.31	1.34	1.37
2.8	1.15	1.16	1.20
7.7	1.09	1.07	1.11
10.1	1.74	2.40	3.45
90.1	1.77	2.55	3.57
170.1	1.81	2.56	3.54
250.1	1.83	2.52	3.46
330.1	1.83	2.45	3.33
490.1	1.78	2.24	2.97
570.1	1.79	2.15	2.81
650.1	1.82	2.07	2.66
730.1	1.87	1.98	2.48
810.1	1.93	1.89	2.29
890.1	1.99	1.80	2.09
970.1	2.00	1.68	1.90
1050.1	2.01	1.58	1.73
1130.1	1.98	1.46	1.54
1210.1	1.95	1.36	1.37
1290.1	1.93	1.29	1.23
1370.1	1.87	1.24	1.17
1450.1	1.72	1.13	1.24
1550.1	1.59	1.15	1.40
1630.1	1.50	1.25	1.56
1730.1	1.44	1.40	1.76
1910.1	1.41	1.68	2.15
1990.1	1.45	1.82	2.34
2090.1	1.52	1.97	2.55
2170.1	1.58	2.08	2.67
2270.1	1.68	2.22	2.84
2350.1	1.76	2.31	2.93
2450.1	1.86	2.42	3.04
2530.1	1.96	2.51	3.13
2630.1	2.08	2.61	3.21
2810.1	2.37	2.83	3.39
2890.1	2.51	2.93	3.47
2990.1	2.71	3.07	3.57
3070.1	2.86	3.17	3.62
3170.1	3.04	3.27	3.67
3250.1	3.15	3.29	3.64
3350.1	3.31	3.36	3.65

IF (OUT) (MHz)	IF VSWR @LO=2500.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.1	1.30	1.36	1.63
22.4	1.15	1.18	1.17
34.6	1.12	1.26	1.32
46.9	1.10	1.28	1.39
59.1	1.11	1.27	1.44
71.4	1.14	1.32	1.43
83.6	1.14	1.28	1.38
95.9	1.14	1.28	1.40
108.1	1.14	1.24	1.38
120.4	1.15	1.28	1.39
132.6	1.18	1.28	1.41
144.9	1.17	1.30	1.43
157.1	1.18	1.31	1.43
169.4	1.18	1.30	1.44
181.6	1.18	1.30	1.43
193.9	1.17	1.29	1.41
206.1	1.18	1.29	1.40
218.4	1.19	1.30	1.42
230.6	1.21	1.32	1.44
242.9	1.23	1.34	1.46
255.1	1.25	1.36	1.50
267.4	1.26	1.38	1.51
279.6	1.26	1.39	1.51
291.9	1.27	1.39	1.52
304.1	1.29	1.41	1.54
316.4	1.30	1.42	1.55
328.6	1.31	1.45	1.57
340.9	1.33	1.46	1.60
353.1	1.34	1.48	1.62
365.4	1.35	1.50	1.63
377.6	1.37	1.51	1.64
389.9	1.39	1.53	1.66
402.1	1.39	1.53	1.66
414.4	1.39	1.53	1.68
426.6	1.41	1.56	1.70
438.9	1.43	1.58	1.73
451.1	1.44	1.60	1.75
463.4	1.46	1.61	1.78
487.9	1.49	1.65	1.80
500.1	1.51	1.67	1.83

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+3	20	18	37	24	39	24	42	35	50
1	-	21	+0	40	17	42	34	31	45	51	46	48
2	96	68	72	72	65	73	67	76	64	75	59	73
3	>100	>78	66	>78	67	>78	71	>78	77	71	78	>78
4	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; -14.00 dBm.
 LO IN: 1280.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -21.62 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	30	29	47	35	50	37	57	50	74
1	-	21	+0	42	17	44	34	33	47	53	51	51
2	78	58	60	61	57	63	59	66	56	66	53	67
3	>100	62	46	62	49	60	53	67	59	53	60	75
4	>100	>88	85	81	83	80	83	85	84	>88	74	79
5	>100	>88	88	>88	74	85	66	84	68	83	75	72
6	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>100	>88	>88	>88	>88	>88	>88	>88	87	>88	>88	>88
8	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; -4.00 dBm.
 LO IN: 1280.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -11.69 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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