

Frequency Mixer

SYM-22H+

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						
500.1	530.1	13.75	10.99	9.12	500.1	530.1	17.49	17.81	21.42	500.1	530.1	-1.18	-0.76	-0.26
580.7	610.7	12.07	9.38	8.08	580.7	610.7	14.56	17.05	20.54	580.7	610.7	-0.05	0.17	0.25
661.3	691.3	9.61	7.96	7.13	661.3	691.3	13.24	17.21	19.74	661.3	691.3	1.24	0.97	0.78
741.8	771.8	8.51	7.26	6.62	741.8	771.8	13.10	16.96	19.39	741.8	771.8	1.62	1.44	1.31
822.4	852.4	8.33	6.81	6.16	822.4	852.4	12.86	17.08	20.21	822.4	852.4	1.73	1.78	1.61
903.0	933.0	7.78	6.28	5.66	903.0	933.0	14.92	16.32	18.37	903.0	933.0	1.52	1.72	1.58
983.6	1013.6	7.00	5.93	5.39	983.6	1013.6	16.66	16.93	17.62	983.6	1013.6	1.50	1.52	1.42
1044.0	1074.0	7.06	5.96	5.31	1044.0	1074.0	16.73	17.07	18.61	1044.0	1074.0	1.49	1.43	1.35
1124.6	1154.6	6.71	5.77	5.19	1124.6	1154.6	19.41	17.15	20.00	1124.6	1154.6	1.44	1.20	1.09
1185.0	1215.0	6.71	5.82	5.24	1185.0	1215.0	21.33	18.55	21.26	1185.0	1215.0	1.40	1.11	0.93
1265.6	1295.6	6.64	5.67	5.34	1265.6	1295.6	21.06	22.40	22.87	1265.6	1295.6	1.37	1.13	0.78
1326.0	1356.0	6.63	5.70	5.47	1326.0	1356.0	21.75	24.15	23.53	1326.0	1356.0	1.30	1.02	0.70
1406.6	1436.6	6.31	5.78	5.70	1406.6	1436.6	22.31	24.75	24.14	1406.6	1436.6	1.30	0.79	0.54
1467.0	1497.0	6.06	5.56	5.53	1467.0	1497.0	21.97	23.29	24.89	1467.0	1497.0	1.16	0.64	0.42
1547.6	1577.6	6.02	5.45	5.40	1547.6	1577.6	20.78	25.42	27.09	1547.6	1577.6	1.04	0.44	0.22
1608.0	1638.0	6.04	5.41	5.31	1608.0	1638.0	19.42	25.31	29.39	1608.0	1638.0	0.95	0.50	0.27
1688.6	1718.6	6.94	5.99	5.72	1688.6	1718.6	19.47	20.15	27.47	1688.6	1718.6	0.66	0.53	0.39
1749.0	1779.0	7.28	6.53	6.19	1749.0	1779.0	21.30	23.19	30.41	1749.0	1779.0	0.60	0.39	0.35
1829.6	1859.6	7.41	6.58	6.20	1829.6	1859.6	25.36	27.34	28.15	1829.6	1859.6	0.66	0.39	0.36
1890.0	1920.0	6.86	6.29	6.00	1890.0	1920.0	22.89	24.24	24.54	1890.0	1920.0	0.80	0.52	0.41
1970.6	2000.6	6.64	6.08	5.86	1970.6	2000.6	21.81	22.83	23.54	1970.6	2000.6	0.77	0.49	0.39
2031.0	2061.0	6.57	6.01	5.82	2031.0	2061.0	20.85	22.40	23.07	2031.0	2061.0	0.91	0.60	0.45
2111.6	2141.6	6.49	5.87	5.69	2111.6	2141.6	20.43	22.61	25.04	2111.6	2141.6	0.97	0.62	0.49
2172.0	2202.0	6.41	5.82	5.64	2172.0	2202.0	20.19	23.32	27.84	2172.0	2202.0	0.96	0.61	0.48
2252.6	2282.6	6.38	5.77	5.64	2252.6	2282.6	20.99	25.11	28.96	2252.6	2282.6	0.80	0.51	0.37
2313.0	2343.0	6.66	5.83	5.66	2313.0	2343.0	22.60	24.49	27.70	2313.0	2343.0	0.80	0.51	0.33
2393.6	2423.6	6.87	6.07	5.85	2393.6	2423.6	23.50	23.17	25.71	2393.6	2423.6	0.71	0.40	0.31
2454.1	2484.1	6.95	6.20	5.99	2454.1	2484.1	24.03	23.20	25.31	2454.1	2484.1	0.73	0.35	0.26
2534.6	2564.6	7.20	6.47	6.22	2534.6	2564.6	24.57	24.23	25.56	2534.6	2564.6	0.63	0.32	0.22
2595.1	2625.1	7.51	6.77	6.51	2595.1	2625.1	34.58	24.01	25.36	2595.1	2625.1	0.68	0.26	0.19
2675.6	2705.6	7.74	7.17	7.01	2675.6	2705.6	26.46	25.27	25.85	2675.6	2705.6	0.51	0.19	0.16
2736.1	2766.1	7.97	7.39	7.28	2736.1	2766.1	20.93	27.57	27.00	2736.1	2766.1	0.49	0.17	0.14
2816.6	2846.6	8.26	7.67	7.55	2816.6	2846.6	19.50	29.67	28.16	2816.6	2846.6	0.41	0.15	0.12
2877.1	2907.1	8.66	7.96	7.83	2877.1	2907.1	18.81	31.62	28.40	2877.1	2907.1	0.42	0.17	0.12
2957.7	2987.7	9.06	8.35	8.27	2957.7	2987.7	18.93	31.18	30.55	2957.7	2987.7	0.39	0.15	0.09
3018.1	3048.1	9.47	8.70	8.57	3018.1	3048.1	19.37	24.52	30.47	3018.1	3048.1	0.32	0.13	0.08
3098.7	3128.7	10.01	9.19	9.04	3098.7	3128.7	21.94	23.04	37.33	3098.7	3128.7	0.40	0.15	0.10
3159.1	3189.1	10.04	9.38	9.29	3159.1	3189.1	23.06	23.45	29.65	3159.1	3189.1	0.38	0.19	0.12
3239.7	3269.7	10.53	9.77	9.66	3239.7	3269.7	25.31	24.94	28.19	3239.7	3269.7	0.36	0.21	0.16
3300.1	3330.1	11.37	10.30	10.10	3300.1	3330.1	27.58	26.64	28.71	3300.1	3330.1	0.25	0.15	0.13

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1850.1MHz (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)=2200.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
200.0	1650.1	7.30	10.0	1510.1	5.36	200.0	2000.1	6.16
190.0	1660.1	7.40	14.9	1515.0	5.42	195.1	2005.0	6.16
180.0	1670.1	7.54	19.7	1519.8	5.41	190.3	2009.8	6.17
170.0	1680.1	7.57	24.6	1524.7	5.41	185.4	2014.7	6.17
160.0	1690.1	7.56	29.5	1529.6	5.42	180.5	2019.6	6.16
150.0	1700.1	7.53	34.4	1534.5	5.41	175.6	2024.5	6.15
140.0	1710.1	7.45	39.2	1539.3	5.41	170.8	2029.3	6.15
130.0	1720.1	7.41	44.1	1544.2	5.41	165.9	2034.2	6.13
120.0	1730.1	7.34	49.0	1549.1	5.42	161.0	2039.1	6.13
110.0	1740.1	7.15	53.8	1553.9	5.41	156.2	2043.9	6.12
100.0	1750.1	6.99	58.7	1558.8	5.41	151.3	2048.8	6.09
90.0	1760.1	6.96	63.6	1563.7	5.42	146.4	2053.7	6.06
80.0	1770.1	6.88	68.5	1568.6	5.44	141.5	2058.6	6.04
70.0	1780.1	6.71	73.3	1573.4	5.46	136.7	2063.4	6.04
60.0	1790.1	6.61	78.2	1578.3	5.50	131.8	2068.3	6.04
50.0	1800.1	6.60	83.1	1583.2	5.52	126.9	2073.2	6.04
40.0	1810.1	6.52	87.9	1588.0	5.54	122.1	2078.0	6.03
30.0	1820.1	6.48	92.8	1592.9	5.54	117.2	2082.9	5.99
20.0	1830.1	6.49	97.7	1597.8	5.52	112.3	2087.8	5.97
10.0	1840.1	6.41	102.6	1602.7	5.51	107.4	2092.7	5.95
10.0	1860.1	6.46	107.4	1607.5	5.50	102.6	2097.5	5.93
20.0	1870.1	6.51	112.3	1612.4	5.49	97.7	2102.4	5.92
30.0	1880.1	6.46	117.2	1617.3	5.49	92.8	2107.3	5.93
40.0	1890.1	6.47	122.1	1622.2	5.49	87.9	2112.2	5.92
50.0	1900.1	6.48	126.9	1627.0	5.47	83.1	2117.0	5.89
60.0	1910.1	6.43	131.8	1631.9	5.44	78.2	2121.9	5.88
70.0	1920.1	6.41	136.7	1636.8	5.40	73.3	2126.8	5.86
80.0	1930.1	6.44	141.5	1641.6	5.35	68.5	2131.6	5.85
90.0	1940.1	6.42	146.4	1646.5	5.32	63.6	2136.5	5.84
100.0	1950.1	6.41	151.3	1651.4	5.29	58.7	2141.4	5.84
110.0	1960.1	6.45	156.2	1656.3	5.26	53.8	2146.3	5.82
120.0	1970.1	6.46	161.0	1661.1	5.24	49.0	2151.1	5.81
130.0	1980.1	6.49	165.9	1666.0	5.23	44.1	2156.0	5.79
140.0	1990.1	6.53	170.8	1670.9	5.22	39.2	2160.9	5.79
150.0	2000.1	6.54	175.6	1675.7	5.22	34.4	2165.7	5.79
160.0	2010.1	6.56	180.5	1680.6	5.22	29.5	2170.6	5.80
170.0	2020.1	6.62	185.4	1685.5	5.21	24.6	2175.5	5.78
180.0	2030.1	6.67	190.3	1690.4	5.20	19.7	2180.4	5.76
190.0	2040.1	6.67	195.1	1695.2	5.17	14.9	2185.2	5.78
200.0	2050.1	6.67	200.0	1700.1	5.16	10.0	2190.1	5.71

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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
500.1	24.64	24.16	25.35	10.71	10.23	11.27
580.7	24.07	23.70	24.89	10.67	10.10	11.13
661.3	23.63	23.52	24.85	10.56	9.97	11.10
741.8	23.48	24.34	25.46	10.05	10.00	11.13
822.4	25.02	26.54	27.38	10.03	10.87	11.81
903.0	27.17	29.03	29.83	11.77	12.83	13.91
983.6	28.41	30.55	31.18	14.17	15.31	16.35
1044.0	29.95	31.45	32.47	16.79	17.64	18.33
1124.6	29.84	30.87	32.15	19.78	20.68	21.25
1185.0	30.44	31.15	32.56	22.38	22.86	23.14
1265.6	29.83	31.40	33.13	25.23	25.56	25.65
1326.0	29.91	31.42	33.58	27.26	27.50	27.53
1406.6	29.18	31.45	33.74	29.35	29.68	29.53
1467.0	29.28	31.50	33.43	31.11	31.32	31.10
1547.6	28.05	31.13	34.22	32.83	33.10	32.71
1608.0	28.24	31.33	34.17	34.34	34.42	33.99
1688.6	28.34	31.72	34.43	35.83	36.07	35.41
1749.0	28.34	31.18	33.33	36.82	36.93	36.32
1829.6	27.37	30.02	32.43	37.86	37.94	37.55
1890.0	27.10	30.13	33.09	38.15	38.39	38.21
1970.6	27.01	29.86	32.70	39.31	39.42	39.13
2031.0	26.20	29.35	32.40	39.70	39.99	39.76
2111.6	26.10	29.23	32.38	40.37	40.64	40.55
2172.0	25.41	28.80	32.33	39.67	40.30	40.63
2252.6	25.22	28.71	32.18	39.34	40.29	40.92
2313.0	24.99	28.26	31.78	39.92	40.98	41.75
2393.6	24.79	27.15	30.07	39.67	40.57	41.54
2454.1	25.13	27.45	30.23	40.34	40.96	42.17
2534.6	25.17	27.61	30.09	40.91	41.94	42.95
2595.1	25.92	28.36	30.11	40.98	42.34	42.82
2675.6	26.01	29.41	31.59	40.24	42.62	43.05
2736.1	26.32	29.97	32.49	39.63	42.37	42.72
2816.6	26.13	30.40	33.31	38.43	41.97	42.23
2877.1	27.52	30.92	34.11	38.85	41.85	41.91
2957.7	27.84	31.73	34.77	38.29	41.81	41.52
3018.1	28.49	32.65	35.54	37.88	41.86	41.24
3098.7	29.67	34.82	38.81	37.27	41.93	41.29
3159.1	31.61	37.32	43.29	37.36	42.19	41.27
3239.7	32.64	38.87	46.98	35.84	41.49	41.42
3300.1	34.11	39.38	45.30	35.03	40.74	42.05

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
500.1	530.1	13.35	15.47	17.38
580.7	610.7	12.50	14.31	15.49
661.3	691.3	12.72	13.46	13.99
741.8	771.8	12.51	12.67	12.93
822.4	852.4	13.23	13.23	13.03
903.0	933.0	15.04	15.03	14.54
983.6	1013.6	16.80	16.23	15.68
1044.0	1074.0	17.16	16.49	15.85
1124.6	1154.6	16.33	15.70	15.37
1185.0	1215.0	16.00	15.34	15.11
1265.6	1295.6	15.67	15.13	15.06
1326.0	1356.0	15.74	15.24	15.18
1406.6	1436.6	16.03	15.70	15.72
1467.0	1497.0	16.73	16.63	16.67
1547.6	1577.6	17.24	17.58	17.74
1608.0	1638.0	17.51	18.08	18.49
1688.6	1718.6	17.86	18.37	18.81
1749.0	1779.0	18.05	18.28	18.52
1829.6	1859.6	18.59	18.80	19.04
1890.0	1920.0	19.47	19.67	19.90
1970.6	2000.6	20.93	21.18	21.47
2031.0	2061.0	22.08	22.40	22.80
2111.6	2141.6	24.20	24.69	25.26
2172.0	2202.0	26.25	26.92	27.73
2252.6	2282.6	30.00	31.38	32.66
2313.0	2343.0	32.51	35.41	37.40
2393.6	2423.6	35.28	37.63	38.41
2454.1	2484.1	34.46	34.15	33.47
2534.6	2564.6	29.78	29.08	28.45
2595.1	2625.1	27.02	26.21	25.68
2675.6	2705.6	23.79	23.28	22.92
2736.1	2766.1	21.91	21.50	21.21
2816.6	2846.6	19.77	19.61	19.45
2877.1	2907.1	18.29	18.25	18.16
2957.7	2987.7	16.74	16.82	16.75
3018.1	3048.1	15.64	15.79	15.85
3098.7	3128.7	14.32	14.49	14.63
3159.1	3189.1	13.59	13.76	13.88
3239.7	3269.7	12.66	12.88	13.03
3300.1	3330.1	12.05	12.27	12.48

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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=2200.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
500.1	530.1	8.95	8.01	7.11	500.1	7.05	4.22	2.70	10.0	1.23	1.03	1.08
580.7	610.7	7.11	6.13	5.51	580.7	6.78	3.95	2.40	14.9	1.33	1.09	1.03
661.3	691.3	4.92	4.48	4.13	661.3	6.17	3.63	2.21	19.7	1.39	1.13	1.06
741.8	771.8	3.67	3.36	3.15	741.8	5.25	3.10	2.09	24.6	1.34	1.11	1.07
822.4	852.4	2.90	2.65	2.48	822.4	4.16	2.58	1.99	29.5	1.46	1.21	1.14
903.0	933.0	2.29	2.10	1.95	903.0	4.03	2.52	1.88	34.4	1.35	1.14	1.15
983.6	1013.6	1.91	1.75	1.61	983.6	4.23	2.50	1.88	39.2	1.36	1.16	1.17
1044.0	1074.0	1.77	1.62	1.47	1044.0	3.90	2.39	1.89	44.1	1.37	1.17	1.18
1124.6	1154.6	1.65	1.51	1.39	1124.6	4.20	2.40	1.87	49.0	1.38	1.17	1.15
1185.0	1215.0	1.69	1.53	1.42	1185.0	3.37	2.25	1.86	53.8	1.33	1.14	1.16
1265.6	1295.6	1.71	1.56	1.51	1265.6	3.79	2.30	1.78	58.7	1.37	1.18	1.19
1326.0	1356.0	1.73	1.62	1.59	1326.0	3.25	2.06	1.72	63.6	1.36	1.19	1.20
1406.6	1436.6	1.65	1.63	1.64	1406.6	3.73	2.05	1.65	68.5	1.40	1.21	1.18
1467.0	1497.0	1.63	1.51	1.52	1467.0	3.00	1.83	1.61	73.3	1.38	1.21	1.20
1547.6	1577.6	1.70	1.44	1.39	1547.6	3.16	1.75	1.51	78.2	1.42	1.25	1.22
1608.0	1638.0	1.81	1.46	1.32	1608.0	2.48	1.54	1.47	83.1	1.41	1.25	1.23
1688.6	1718.6	2.05	1.72	1.55	1688.6	2.47	1.50	1.46	87.9	1.41	1.25	1.22
1749.0	1779.0	2.32	2.11	1.97	1749.0	2.40	1.48	1.44	92.8	1.43	1.27	1.24
1829.6	1859.6	2.60	2.40	2.23	1829.6	2.27	1.37	1.37	97.7	1.43	1.28	1.26
1890.0	1920.0	2.46	2.30	2.17	1890.0	2.22	1.31	1.37	102.6	1.44	1.30	1.27
1970.6	2000.6	2.25	2.11	2.01	1970.6	1.96	1.23	1.35	107.4	1.44	1.30	1.29
2031.0	2061.0	2.13	1.99	1.89	2031.0	2.19	1.23	1.34	112.3	1.44	1.32	1.31
2111.6	2141.6	2.01	1.87	1.74	2111.6	2.03	1.20	1.30	117.2	1.45	1.32	1.31
2172.0	2202.0	1.89	1.76	1.65	2172.0	2.19	1.22	1.26	122.1	1.45	1.33	1.34
2252.6	2282.6	1.73	1.60	1.56	2252.6	2.10	1.20	1.23	126.9	1.47	1.35	1.35
2313.0	2343.0	1.75	1.59	1.55	2313.0	2.13	1.23	1.23	131.8	1.46	1.34	1.36
2393.6	2423.6	1.85	1.75	1.71	2393.6	2.24	1.33	1.22	136.7	1.46	1.35	1.36
2454.1	2484.1	1.94	1.88	1.84	2454.1	2.24	1.35	1.26	141.5	1.47	1.36	1.39
2534.6	2564.6	2.05	2.02	2.01	2534.6	2.51	1.44	1.24	146.4	1.47	1.37	1.39
2595.1	2625.1	2.12	2.12	2.16	2595.1	2.40	1.46	1.23	151.3	1.48	1.38	1.41
2675.6	2705.6	2.29	2.34	2.40	2675.6	2.59	1.49	1.24	156.2	1.49	1.40	1.42
2736.1	2766.1	2.49	2.56	2.60	2736.1	2.62	1.51	1.23	161.0	1.51	1.42	1.43
2816.6	2846.6	2.79	2.81	2.82	2816.6	3.03	1.59	1.20	165.9	1.51	1.42	1.43
2877.1	2907.1	2.97	2.94	2.95	2877.1	2.65	1.62	1.17	170.8	1.51	1.43	1.43
2957.7	2987.7	3.18	3.11	3.14	2957.7	2.90	1.64	1.16	175.6	1.53	1.44	1.44
3018.1	3048.1	3.44	3.34	3.32	3018.1	3.07	1.66	1.18	180.5	1.53	1.44	1.44
3098.7	3128.7	3.88	3.76	3.63	3098.7	3.31	1.73	1.18	185.4	1.52	1.45	1.45
3159.1	3189.1	4.10	4.00	3.79	3159.1	3.03	1.71	1.21	190.3	1.52	1.45	1.46
3239.7	3269.7	4.27	4.11	3.92	3239.7	3.50	1.78	1.28	195.1	1.53	1.48	1.48
3300.1	3330.1	4.33	4.15	4.01	3300.1	3.56	1.83	1.34	200.0	1.55	1.50	1.51

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	23	11	23	16	28	58	43	50	86
1	-	13	+0	32	32	37	34	31	35	54	44	61
2	>100	67	66	48	72	69	59	63	62	59	77	74
3	>100	69	79	82	62	81	76	77	64	68	66	80
4	>100	>92	>92	>92	>92	86	>92	>92	>92	89	88	86
5	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
6	>100	>92	>92	>92	>92	>92	>92	88	>92	>92	>92	>92
7	>100	>92	>92	>92	>92	>92	>92	>92	87	>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: 1850.1 MHz; -1.00 dBm.
LO IN: 1880.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -7.52 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	33	21	34	28	44	58	65	64	77
1	-	13	+0	33	31	39	35	33	41	58	48	75
2	91	59	58	40	68	67	50	53	48	54	82	63
3	>100	49	57	61	48	59	58	57	47	52	49	75
4	>100	75	73	72	80	59	78	73	70	66	60	65
5	>100	76	67	77	77	77	57	81	75	73	62	62
6	>100	89	85	91	>102	98	96	72	95	88	82	74
7	>100	>102	90	97	87	94	100	92	73	96	92	84
8	>100	>102	>102	98	99	96	>102	102	>102	81	>102	98
9	>100	>102	>102	>102	>102	>102	97	>102	>102	>102	>102	>102
10	>100	>102	>102	>102	>102	>102	>102	>102	>102	>102	>102	>102
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1850.1 MHz; 9.00 dBm.
LO IN: 1880.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 2.36 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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