

Frequency Mixer

SYM-36H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
800.1	830.1	21.44	11.96	8.40
880.6	910.6	18.19	9.86	8.11
961.0	991.0	14.18	8.30	7.49
1041.5	1071.5	11.01	7.44	6.84
1122.0	1152.0	8.64	6.63	6.25
1202.5	1232.5	7.24	6.21	5.98
1282.9	1312.9	6.81	6.08	5.82
1363.4	1393.4	6.38	5.91	5.68
1443.9	1473.9	6.26	5.75	5.57
1524.4	1554.4	6.33	5.84	5.58
1604.8	1634.8	6.09	5.65	5.45
1685.3	1715.3	6.29	5.81	5.53
1765.8	1795.8	6.45	5.97	5.74
1846.3	1876.3	6.88	6.43	6.15
1926.7	1956.7	7.73	7.07	6.76
2027.3	2057.3	7.65	6.98	6.59
2107.8	2137.8	7.05	6.34	6.08
2208.4	2238.4	6.98	6.18	5.74
2288.9	2318.9	7.03	6.14	5.68
2389.4	2419.4	6.98	6.17	5.74
2469.9	2499.9	6.99	6.20	5.75
2570.5	2600.5	6.91	6.27	5.83
2651.0	2681.0	6.76	6.27	5.95
2751.6	2781.6	6.68	6.22	5.92
2832.1	2862.1	6.53	6.06	5.77
2932.6	2962.6	6.56	6.10	5.83
3013.1	3043.1	6.41	6.03	5.84
3113.7	3143.7	6.16	5.80	5.76
3194.2	3224.2	5.92	5.68	5.79
3294.8	3324.8	5.88	5.79	5.98
3375.2	3405.2	5.95	5.88	6.17
3475.8	3505.8	6.16	5.97	6.45
3556.3	3586.3	6.45	6.17	6.92
3656.9	3686.9	6.66	6.61	7.28
3737.4	3767.4	7.17	6.89	7.07
3838.0	3868.0	7.12	6.10	5.99
3918.4	3948.4	6.84	6.01	5.83
4019.0	4049.0	6.88	5.96	5.73
4099.5	4129.5	7.35	6.10	5.74
4200.1	4230.1	8.30	6.32	5.80

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
800.1	830.1	5.45	16.12	25.32
880.6	910.6	7.52	21.41	20.76
961.0	991.0	10.64	25.80	21.57
1041.5	1071.5	15.37	31.49	22.11
1122.0	1152.0	24.97	24.55	23.71
1202.5	1232.5	21.98	23.40	23.88
1282.9	1312.9	23.19	23.35	23.07
1363.4	1393.4	23.19	25.59	23.41
1443.9	1473.9	24.80	24.60	23.74
1524.4	1554.4	26.64	23.87	22.88
1604.8	1634.8	27.39	23.99	22.04
1685.3	1715.3	22.96	30.55	22.32
1765.8	1795.8	21.90	26.08	26.00
1846.3	1876.3	25.09	29.64	26.08
1926.7	1956.7	24.82	27.92	30.56
2027.3	2057.3	28.04	34.79	29.77
2107.8	2137.8	23.93	24.23	25.89
2208.4	2238.4	26.80	24.73	24.21
2288.9	2318.9	25.34	23.38	24.62
2389.4	2419.4	24.54	22.78	23.13
2469.9	2499.9	22.65	24.95	22.68
2570.5	2600.5	19.98	21.05	21.89
2651.0	2681.0	20.19	20.10	20.58
2751.6	2781.6	19.70	19.36	19.45
2832.1	2862.1	19.16	18.81	18.27
2932.6	2962.6	17.79	17.63	17.50
3013.1	3043.1	17.38	18.09	19.49
3113.7	3143.7	18.74	21.57	20.78
3194.2	3224.2	20.74	22.43	21.46
3294.8	3324.8	21.14	22.97	22.80
3375.2	3405.2	20.24	23.73	23.33
3475.8	3505.8	19.35	21.49	21.06
3556.3	3586.3	18.52	21.26	22.54
3656.9	3686.9	18.54	24.87	22.69
3737.4	3767.4	17.48	22.15	22.38
3838.0	3868.0	16.81	19.05	21.05
3918.4	3948.4	14.20	18.67	22.07
4019.0	4049.0	14.98	19.45	23.94
4099.5	4129.5	15.31	18.88	23.61
4200.1	4230.1	14.65	19.26	26.05

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
800.1	830.1	-8.42	-1.25	0.42
880.6	910.6	-6.03	0.06	0.49
961.0	991.0	-3.25	0.77	0.65
1041.5	1071.5	-0.80	0.96	0.77
1122.0	1152.0	0.76	1.20	0.88
1202.5	1232.5	1.52	1.13	0.83
1282.9	1312.9	1.54	1.02	0.75
1363.4	1393.4	1.60	0.95	0.71
1443.9	1473.9	1.42	0.85	0.62
1524.4	1554.4	1.09	0.67	0.48
1604.8	1634.8	1.21	0.64	0.46
1685.3	1715.3	0.87	0.51	0.39
1765.8	1795.8	1.03	0.63	0.41
1846.3	1876.3	1.05	0.61	0.47
1926.7	1956.7	1.08	0.75	0.57
2027.3	2057.3	1.39	1.14	0.96
2107.8	2137.8	1.32	1.38	1.20
2208.4	2238.4	0.97	1.14	1.14
2288.9	2318.9	0.92	1.02	1.09
2389.4	2419.4	0.88	0.86	0.94
2469.9	2499.9	0.82	0.77	0.96
2570.5	2600.5	0.87	0.71	0.87
2651.0	2681.0	1.02	0.75	0.89
2751.6	2781.6	1.06	0.85	1.06
2832.1	2862.1	1.05	0.96	1.19
2932.6	2962.6	1.14	1.04	1.17
3013.1	3043.1	1.14	1.04	1.10
3113.7	3143.7	1.40	1.19	1.13
3194.2	3224.2	1.63	1.23	1.10
3294.8	3324.8	1.67	1.11	1.10
3375.2	3405.2	1.76	1.18	1.13
3475.8	3505.8	1.98	1.42	1.29
3556.3	3586.3	1.99	1.29	0.88
3656.9	3686.9	2.07	0.90	0.25
3737.4	3767.4	1.97	0.69	0.20
3838.0	3868.0	1.95	1.16	0.76
3918.4	3948.4	2.28	1.10	0.57
4019.0	4049.0	2.33	1.10	0.47
4099.5	4129.5	2.13	1.17	0.46
4200.1	4230.1	1.54	1.17	0.44



Frequency Mixer

SYM-36H+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2550.1MHz (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)=3600.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
600.0	1950.1	8.03	10.0	1510.1	5.79	600.0	3000.1	7.71
559.3	1990.8	7.63	25.1	1525.2	5.70	584.9	3015.2	7.64
518.6	2031.5	7.30	40.3	1540.4	5.79	569.7	3030.4	7.57
498.3	2051.8	7.08	55.4	1555.5	5.81	554.6	3045.5	7.50
457.6	2092.5	6.83	70.5	1570.6	5.93	539.5	3060.6	7.42
437.2	2112.9	6.59	85.6	1585.7	5.95	524.4	3075.7	7.34
396.6	2153.5	6.40	100.8	1600.9	6.04	509.2	3090.9	7.25
376.2	2173.9	6.41	115.9	1616.0	6.04	494.1	3106.0	7.19
335.5	2214.6	6.45	131.0	1631.1	6.03	479.0	3121.1	7.18
315.2	2234.9	6.46	146.2	1646.3	6.03	463.8	3136.3	7.15
274.5	2275.6	6.53	161.3	1661.4	6.09	448.7	3151.4	7.06
254.1	2296.0	6.48	176.4	1676.5	6.20	433.6	3166.5	6.94
213.4	2336.7	6.39	191.5	1691.6	6.25	418.5	3181.6	6.89
193.1	2357.0	6.36	206.7	1706.8	6.32	403.3	3196.8	6.85
152.4	2397.7	6.23	221.8	1721.9	6.29	388.2	3211.9	6.81
132.1	2418.0	6.13	236.9	1737.0	6.34	373.1	3227.0	6.70
91.4	2458.7	6.07	252.1	1752.2	6.38	357.9	3242.2	6.60
71.0	2479.1	6.12	267.2	1767.3	6.36	342.8	3257.3	6.58
30.3	2519.8	6.11	282.3	1782.4	6.25	327.7	3272.4	6.54
10.0	2540.1	6.18	297.4	1797.5	6.15	312.6	3287.5	6.48
30.3	2580.4	6.24	312.6	1812.7	6.10	297.4	3302.7	6.43
50.7	2600.8	6.25	327.7	1827.8	6.05	282.3	3317.8	6.43
91.4	2641.5	6.29	342.8	1842.9	6.06	267.2	3332.9	6.38
111.7	2661.8	6.36	357.9	1858.0	6.05	252.1	3348.0	6.33
152.4	2702.5	6.50	373.1	1873.2	6.15	236.9	3363.2	6.29
172.8	2722.9	6.53	388.2	1888.3	6.26	221.8	3378.3	6.27
213.4	2763.5	6.62	403.3	1903.4	6.36	206.7	3393.4	6.27
233.8	2783.9	6.67	418.5	1918.6	6.43	191.5	3408.6	6.23
274.5	2824.6	6.78	433.6	1933.7	6.58	176.4	3423.7	6.20
294.8	2844.9	6.85	448.7	1948.8	6.76	161.3	3438.8	6.14
335.5	2885.6	7.02	463.8	1963.9	6.91	146.2	3453.9	6.13
355.9	2906.0	7.03	479.0	1979.1	7.00	131.0	3469.1	6.10
396.6	2946.7	7.22	494.1	1994.2	7.03	115.9	3484.2	6.10
416.9	2967.0	7.26	509.2	2009.3	7.16	100.8	3499.3	6.07
457.6	3007.7	7.56	524.4	2024.5	7.29	85.6	3514.5	6.04
477.9	3028.0	7.60	539.5	2039.6	7.43	70.5	3529.6	6.04
518.6	3068.7	7.81	554.6	2054.7	7.52	55.4	3544.7	6.05
539.0	3089.1	7.87	569.7	2069.8	7.70	40.3	3559.8	6.10
579.7	3129.8	8.03	584.9	2085.0	7.79	25.1	3575.0	6.13
600.0	3150.1	8.12	600.0	2100.1	7.96	10.0	3590.1	6.30

REV. X2
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Frequency Mixer

SYM-36H+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
800.1	32.06	33.54	35.02	11.01	12.09	13.07
880.6	33.43	35.22	36.51	11.20	12.39	13.39
961.0	38.05	39.95	40.01	11.91	13.18	14.25
1041.5	45.20	53.06	47.23	13.40	14.62	15.49
1122.0	41.81	46.05	47.56	15.09	16.12	16.98
1202.5	36.02	37.93	41.12	16.81	17.83	18.73
1282.9	32.33	34.19	37.21	18.52	19.57	20.51
1363.4	29.58	32.05	34.32	19.92	21.38	22.44
1443.9	28.27	31.68	33.51	21.41	23.38	24.37
1524.3	27.67	31.50	33.07	22.80	25.28	26.44
1604.8	27.65	32.04	34.30	23.97	26.72	27.94
1685.3	28.21	32.59	35.14	24.97	27.81	29.28
1765.8	28.15	32.24	35.02	25.61	28.43	30.22
1846.2	23.89	26.20	29.34	25.87	29.16	31.94
1926.7	22.50	24.91	27.59	27.17	30.67	33.55
2027.3	23.14	25.02	26.81	28.54	32.31	35.77
2107.8	23.55	25.46	27.42	29.57	33.46	37.20
2208.3	24.43	26.10	28.20	30.92	35.04	38.53
2288.8	25.22	26.12	27.83	31.84	36.17	40.30
2389.4	26.06	28.51	29.60	32.95	37.23	41.60
2469.9	25.71	29.18	31.52	33.00	36.79	40.04
2570.5	25.72	29.91	34.27	34.30	37.80	40.12
2650.9	26.17	29.12	33.33	35.03	38.86	40.63
2751.5	26.28	29.29	32.81	34.87	36.97	37.63
2832.0	26.43	29.36	31.64	33.79	33.75	33.78
2932.6	28.10	32.99	33.96	34.05	34.11	33.82
3013.1	28.03	35.35	35.66	35.37	35.29	35.04
3113.6	26.80	34.34	35.67	36.77	36.40	35.60
3194.1	25.74	32.34	36.29	37.49	36.87	36.03
3294.7	25.58	32.20	36.16	37.27	36.66	36.19
3375.2	25.58	32.13	35.54	37.29	36.97	36.93
3475.8	26.06	32.73	33.58	37.16	37.75	38.40
3556.2	26.66	33.75	33.74	37.52	38.98	40.00
3656.8	26.87	33.33	34.79	37.21	39.68	40.89
3737.3	28.14	33.94	34.59	37.09	39.87	41.24
3837.9	29.49	34.74	34.42	37.54	40.47	42.08
3918.4	29.66	33.96	34.84	37.96	41.16	43.10
4018.9	30.34	34.48	34.67	38.33	41.94	44.20
4099.4	29.96	34.29	35.44	38.71	42.67	45.13
4200.0	29.50	33.86	35.53	38.97	43.35	45.71

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
800.1	830.1	20.10	20.48	20.38
880.8	910.8	18.51	18.98	18.89
961.5	991.5	17.35	17.55	17.61
1042.2	1072.2	17.26	17.25	17.06
1123.0	1153.0	17.76	17.36	16.78
1203.7	1233.7	18.90	17.75	16.79
1284.4	1314.4	18.96	17.17	16.43
1365.1	1395.1	17.22	15.51	15.09
1445.8	1475.8	15.29	14.19	13.92
1526.5	1556.5	13.95	13.44	13.20
1607.3	1637.3	13.46	13.49	13.35
1688.0	1718.0	13.67	14.22	14.32
1768.7	1798.7	13.75	14.73	15.16
1849.4	1879.4	11.62	12.60	13.28
1930.1	1960.1	9.75	10.53	11.05
2010.8	2040.8	9.26	9.87	10.22
2091.6	2121.6	9.73	10.45	10.94
2172.3	2202.3	10.47	11.11	11.66
2253.0	2283.0	11.15	11.74	12.27
2353.9	2383.9	12.25	12.68	13.09
2434.6	2464.6	13.05	13.51	13.84
2535.5	2565.5	14.59	14.97	15.00
2616.2	2646.2	15.73	16.58	16.49
2717.1	2747.1	16.59	17.91	18.19
2797.8	2827.8	17.26	18.17	18.61
2898.7	2928.7	18.17	18.17	18.15
2979.4	3009.4	18.98	18.40	17.88
3080.3	3110.3	19.46	18.46	17.63
3161.0	3191.0	19.70	18.56	17.55
3261.9	3291.9	18.81	17.86	17.11
3342.7	3372.7	17.95	17.23	16.80
3443.6	3473.6	17.20	16.72	16.45
3524.3	3554.3	16.87	16.49	16.22
3625.2	3655.2	16.50	16.11	15.65
3705.9	3735.9	16.26	15.83	15.46
3806.8	3836.8	16.12	15.82	15.62
3887.5	3917.5	16.46	16.29	16.15
3988.4	4018.4	17.12	17.06	17.02
4069.1	4099.1	17.73	17.70	17.76
4170.0	4200.0	18.78	18.80	18.83

Frequency Mixer

SYM-36H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3600.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
800.1	830.1	17.93	16.26	14.74	800.1	4.79	2.61	1.79	10.0	2.09	1.77	1.62
880.8	910.8	13.09	12.18	11.31	880.6	4.51	2.45	1.70	25.1	2.00	1.72	1.55
961.5	991.5	9.90	8.99	8.51	961.0	4.28	2.36	1.65	40.3	1.89	1.64	1.49
1042.2	1072.2	7.76	6.44	5.99	1041.5	4.15	2.25	1.59	55.4	1.88	1.63	1.48
1123.0	1153.0	6.49	5.04	4.29	1122.0	4.07	2.21	1.58	70.5	1.86	1.63	1.48
1203.7	1233.7	5.07	4.07	3.56	1202.5	4.18	2.17	1.54	85.6	1.85	1.60	1.47
1284.4	1314.4	3.84	3.14	2.93	1282.9	4.11	2.12	1.52	100.8	1.84	1.60	1.46
1365.1	1395.1	2.87	2.39	2.33	1363.4	4.05	2.04	1.49	115.9	1.84	1.60	1.46
1445.8	1475.8	2.18	1.98	2.00	1443.9	3.85	1.94	1.46	131.0	1.81	1.57	1.43
1526.5	1556.5	1.76	1.84	1.96	1524.3	3.70	1.85	1.41	146.2	1.82	1.58	1.42
1607.3	1637.3	1.64	1.93	2.14	1604.8	3.62	1.80	1.37	161.3	1.80	1.56	1.40
1688.0	1718.0	1.66	2.06	2.29	1685.3	3.54	1.75	1.34	176.4	1.78	1.54	1.37
1768.7	1798.7	1.59	1.83	1.97	1765.8	3.36	1.69	1.34	191.5	1.75	1.51	1.34
1849.4	1879.4	1.32	1.32	1.42	1846.2	3.21	1.66	1.35	206.7	1.69	1.45	1.30
1930.1	1960.1	1.43	1.22	1.11	1926.7	3.06	1.62	1.33	221.8	1.64	1.41	1.26
2010.8	2040.8	1.88	1.74	1.68	2027.3	2.96	1.57	1.31	236.9	1.63	1.40	1.25
2091.6	2121.6	2.22	2.05	2.00	2107.8	2.91	1.55	1.30	252.1	1.61	1.38	1.23
2172.3	2202.3	2.60	2.35	2.24	2208.3	2.79	1.49	1.25	267.2	1.58	1.36	1.21
2253.0	2283.0	2.88	2.61	2.44	2288.8	2.76	1.45	1.22	282.3	1.56	1.33	1.19
2353.9	2383.9	3.17	2.93	2.73	2389.4	2.59	1.39	1.21	297.4	1.50	1.28	1.15
2434.6	2464.6	3.22	2.98	2.80	2469.9	2.62	1.41	1.24	312.6	1.46	1.26	1.16
2535.5	2565.5	3.20	2.93	2.77	2570.5	2.54	1.37	1.22	327.7	1.44	1.25	1.17
2616.2	2646.2	3.12	2.95	2.87	2650.9	2.43	1.32	1.22	342.8	1.42	1.24	1.18
2717.1	2747.1	2.93	2.74	2.74	2751.5	2.34	1.29	1.22	357.9	1.40	1.25	1.22
2797.8	2827.8	2.74	2.50	2.53	2832.0	2.28	1.28	1.22	373.1	1.40	1.25	1.24
2898.7	2928.7	2.45	2.19	2.18	2932.6	2.31	1.30	1.21	388.2	1.35	1.24	1.26
2979.4	3009.4	2.23	1.96	1.92	3013.1	2.27	1.30	1.20	403.3	1.34	1.28	1.33
3080.3	3110.3	1.99	1.70	1.59	3113.6	2.28	1.32	1.20	418.5	1.35	1.30	1.36
3161.0	3191.0	1.97	1.62	1.43	3194.1	2.32	1.35	1.22	433.6	1.33	1.30	1.38
3261.9	3291.9	1.88	1.56	1.33	3294.7	2.38	1.41	1.24	448.7	1.34	1.35	1.45
3342.7	3372.7	1.76	1.49	1.30	3375.2	2.49	1.45	1.26	463.8	1.36	1.37	1.48
3443.6	3473.6	1.54	1.39	1.32	3475.8	2.51	1.46	1.28	479.0	1.36	1.40	1.53
3524.3	3554.3	1.41	1.31	1.31	3556.2	2.47	1.44	1.29	494.1	1.40	1.47	1.61
3625.2	3655.2	1.43	1.40	1.48	3656.8	2.33	1.37	1.32	509.2	1.43	1.51	1.65
3705.9	3735.9	1.59	1.65	1.80	3737.3	2.17	1.34	1.33	524.4	1.44	1.54	1.68
3806.8	3836.8	2.00	2.11	2.36	3837.9	2.04	1.30	1.40	539.5	1.48	1.60	1.76
3887.5	3917.5	2.48	2.58	2.89	3918.4	1.92	1.29	1.46	554.6	1.52	1.64	1.80
3988.4	4018.4	3.16	3.21	3.50	4018.9	1.78	1.28	1.55	569.7	1.54	1.67	1.85
4069.1	4099.1	3.82	3.77	3.95	4099.4	1.69	1.30	1.62	584.9	1.61	1.76	1.95
4170.0	4200.0	4.68	4.45	4.48	4200.0	1.60	1.34	1.65	600.0	1.67	1.83	2.02

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	27	13	19	22	20	40	47	56	---
1	-	9	+0	27	31	45	29	34	54	48	53	56
2	>100	68	62	48	63	67	55	51	59	49	70	65
3	>100	>93	77	74	55	78	72	77	63	71	74	76
4	>100	82	>93	>93	>93	76	>93	91	91	82	93	81
5	>100	>93	>93	>93	>93	>93	86	>93	>93	>93	>93	>93
6	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
7	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
8	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	---	---	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2550.1 MHz; -1.00 dBm.
 LO IN: 2580.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -7.27 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	36	23	32	34	36	58	65	65	---
1	-	9	+0	28	31	48	32	37	47	58	65	71
2	100	62	51	42	52	59	46	44	48	44	67	66
3	88	84	60	54	38	55	59	60	46	56	61	65
4	95	63	77	81	86	58	79	71	66	57	64	59
5	95	67	68	88	81	94	54	80	70	75	62	69
6	99	92	84	74	91	94	95	69	85	87	80	68
7	>100	92	89	89	90	97	95	87	69	90	86	87
8	>100	>103	>103	93	93	85	100	101	>103	79	98	93
9	>100	>103	>103	>103	102	102	97	>103	>103	102	81	102
10	---	---	>103	>103	>103	>103	>103	96	>103	>103	>103	86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2550.1 MHz; 9.00 dBm.
 LO IN: 2580.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; 2.61 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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