

Frequency Mixer

SYM-EDR5092/2

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=+10dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
10.1	40.1	5.93	5.59	5.40	10.1	40.1	25.93	27.85	26.56	10.1	40.1	0.07	0.02	0.01
90.4	120.4	6.23	5.75	5.51	90.4	120.4	21.98	22.62	22.21	90.4	120.4	-0.06	-0.04	-0.01
170.6	200.6	6.36	5.87	5.62	170.6	200.6	20.19	22.10	26.25	170.6	200.6	-0.06	-0.04	-0.04
250.9	280.9	6.46	6.00	5.70	250.9	280.9	21.63	24.44	28.97	250.9	280.9	-0.05	-0.06	-0.03
331.1	361.1	6.63	6.06	5.73	331.1	361.1	21.63	26.11	30.51	331.1	361.1	-0.12	-0.09	-0.03
411.4	441.4	6.78	6.15	5.76	411.4	441.4	22.17	24.69	27.41	411.4	441.4	-0.17	-0.08	-0.01
491.6	521.6	7.06	6.27	5.82	491.6	521.6	20.66	26.81	27.64	491.6	521.6	-0.27	-0.08	-0.01
571.9	601.9	7.17	6.28	5.86	571.9	601.9	21.02	25.36	32.67	571.9	601.9	-0.24	-0.03	0.00
652.1	682.1	7.09	6.28	5.91	652.1	682.1	19.04	23.85	32.81	652.1	682.1	-0.10	0.02	0.02
732.4	762.4	7.21	6.43	6.06	732.4	762.4	25.76	28.08	34.15	732.4	762.4	-0.09	0.00	0.02
812.6	842.6	7.18	6.48	6.15	812.6	842.6	25.08	33.80	39.43	812.6	842.6	-0.03	0.01	0.01
892.9	922.9	7.02	6.45	6.20	892.9	922.9	27.84	39.28	31.32	892.9	922.9	0.11	0.02	0.01
973.1	1003.1	6.94	6.41	6.19	973.1	1003.1	30.88	30.76	34.68	973.1	1003.1	0.15	0.03	0.02
1053.4	1083.4	6.94	6.41	6.18	1053.4	1083.4	25.02	30.52	30.03	1053.4	1083.4	0.12	0.04	0.03
1133.6	1163.6	6.94	6.40	6.17	1133.6	1163.6	22.35	27.56	30.16	1133.6	1163.6	0.10	0.06	0.04
1213.9	1243.9	7.08	6.42	6.18	1213.9	1243.9	26.64	27.41	29.88	1213.9	1243.9	0.10	0.06	0.04
1294.1	1324.1	7.12	6.43	6.17	1294.1	1324.1	24.98	28.92	27.47	1294.1	1324.1	0.15	0.06	0.04
1374.4	1404.4	7.10	6.44	6.17	1374.4	1404.4	23.31	26.29	31.16	1374.4	1404.4	0.17	0.07	0.05
1454.6	1484.6	7.20	6.47	6.20	1454.6	1484.6	23.69	30.99	31.84	1454.6	1484.6	0.18	0.07	0.04
1534.9	1564.9	7.24	6.44	6.19	1534.9	1564.9	23.23	28.57	31.03	1534.9	1564.9	0.24	0.09	0.05
1615.1	1645.1	7.39	6.53	6.27	1615.1	1645.1	22.17	29.49	33.95	1615.1	1645.1	0.26	0.09	0.04
1695.4	1725.4	7.62	6.64	6.35	1695.4	1725.4	20.52	30.76	33.27	1695.4	1725.4	0.26	0.10	0.04
1775.6	1805.6	7.92	6.84	6.51	1775.6	1805.6	19.63	24.97	32.42	1775.6	1805.6	0.17	0.10	0.05
1855.9	1885.9	8.32	7.16	6.76	1855.9	1885.9	19.74	23.47	29.41	1855.9	1885.9	0.10	0.08	0.06
1936.1	1966.1	8.69	7.48	7.02	1936.1	1966.1	19.86	23.91	28.26	1936.1	1966.1	0.01	0.06	0.05
2016.4	2046.4	9.10	7.78	7.24	2016.4	2046.4	19.38	24.49	32.94	2016.4	2046.4	-0.10	0.04	0.03
2096.6	2126.6	9.61	8.14	7.48	2096.6	2126.6	19.25	24.74	35.74	2096.6	2126.6	-0.22	0.00	0.02
2176.9	2206.9	9.99	8.40	7.61	2176.9	2206.9	19.74	25.41	30.69	2176.9	2206.9	-0.36	-0.07	0.01
2257.1	2287.1	10.19	8.54	7.77	2257.1	2287.1	20.01	26.92	27.82	2257.1	2287.1	-0.45	-0.09	0.00
2337.4	2367.4	9.98	8.48	7.81	2337.4	2367.4	20.55	26.31	25.61	2337.4	2367.4	-0.43	-0.08	-0.02
2417.6	2447.6	9.72	8.29	7.71	2417.6	2447.6	21.13	24.94	24.27	2417.6	2447.6	-0.37	-0.04	0.01
2497.9	2527.9	9.49	8.16	7.61	2497.9	2527.9	21.84	24.11	23.75	2497.9	2527.9	-0.27	0.01	0.04
2578.2	2608.2	9.31	8.08	7.61	2578.2	2608.2	22.14	23.59	22.88	2578.2	2608.2	-0.20	0.05	0.08
2658.4	2688.4	9.26	8.06	7.62	2658.4	2688.4	23.60	23.27	22.48	2658.4	2688.4	-0.11	0.09	0.10
2738.7	2768.7	9.17	8.15	7.71	2738.7	2768.7	23.49	23.78	23.71	2738.7	2768.7	-0.05	0.08	0.10
2839.0	2869.0	9.25	8.30	7.88	2839.0	2869.0	22.72	24.83	24.47	2839.0	2869.0	0.07	0.11	0.12
2919.2	2949.2	9.45	8.55	8.13	2919.2	2949.2	21.95	26.43	24.15	2919.2	2949.2	0.08	0.10	0.11
3019.5	3049.5	9.81	8.95	8.51	3019.5	3049.5	22.59	25.16	24.99	3019.5	3049.5	0.12	0.12	0.11
3099.8	3129.8	10.23	9.38	8.93	3099.8	3129.8	23.82	24.70	25.28	3099.8	3129.8	0.13	0.11	0.10
3200.1	3230.1	10.93	10.03	9.53	3200.1	3230.1	23.88	24.87	26.04	3200.1	3230.1	0.17	0.12	0.09

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Frequency Mixer

SYM-EDR5092/2

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)
		+17			+17			+17
1230.0	20.1	7.55	10.0	20.1	5.54	1500.0	1000.1	7.80
1190.0	60.1	7.60	50.8	60.9	5.62	1459.2	1040.9	7.83
1150.0	100.1	7.54	91.6	101.7	5.61	1418.4	1081.7	7.86
1110.0	140.1	7.53	132.5	142.6	5.53	1377.5	1122.6	7.94
1070.0	180.1	7.55	173.3	183.4	5.65	1336.7	1163.4	7.98
1030.0	220.1	7.51	214.1	224.2	5.53	1295.9	1204.2	7.99
990.0	260.1	7.53	254.9	265.0	5.58	1255.1	1245.0	8.01
970.0	280.1	7.52	295.8	305.9	5.59	1214.2	1285.9	8.03
930.0	320.1	7.44	336.6	346.7	5.52	1173.4	1326.7	8.06
910.0	340.1	7.50	377.4	387.5	5.58	1132.6	1367.5	8.09
870.0	380.1	7.38	418.2	428.3	5.53	1091.8	1408.3	8.15
850.0	400.1	7.43	459.0	469.1	5.55	1051.0	1449.1	8.19
810.0	440.1	7.32	499.9	510.0	5.58	1010.1	1490.0	8.26
790.0	460.1	7.33	540.7	550.8	5.59	969.3	1530.8	8.33
750.0	500.1	7.18	581.5	591.6	5.58	928.5	1571.6	8.41
730.0	520.1	7.21	622.3	632.4	5.62	887.7	1612.4	8.47
690.0	560.1	7.15	663.2	673.3	5.70	846.8	1653.3	8.46
670.0	580.1	7.16	704.0	714.1	5.72	806.0	1694.1	8.45
630.0	620.1	7.10	744.8	754.9	5.77	765.2	1734.9	8.48
610.0	640.1	7.11	785.6	795.7	5.84	724.4	1775.7	8.46
570.0	680.1	7.04	826.4	836.5	5.85	683.6	1816.5	8.56
550.0	700.1	7.00	867.3	877.4	5.88	642.7	1857.4	8.56
510.0	740.1	6.96	908.1	918.2	5.90	601.9	1898.2	8.58
490.0	760.1	6.90	948.9	959.0	5.97	561.1	1939.0	8.56
450.0	800.1	6.83	989.7	999.8	6.01	520.3	1979.8	8.52
430.0	820.1	6.81	1030.5	1040.6	6.01	479.5	2020.6	8.49
390.0	860.1	6.76	1071.4	1081.5	6.07	438.6	2061.5	8.46
370.0	880.1	6.69	1112.2	1122.3	6.08	397.8	2102.3	8.42
330.0	920.1	6.71	1153.0	1163.1	6.10	357.0	2143.1	8.32
310.0	940.1	6.66	1193.8	1203.9	6.13	316.2	2183.9	8.30
270.0	980.1	6.65	1234.7	1244.8	6.15	275.3	2224.8	8.25
250.0	1000.1	6.64	1255.1	1265.2	6.15	254.9	2245.2	8.26
210.0	1040.1	6.60	1295.9	1306.0	6.20	214.1	2286.0	8.23
190.0	1060.1	6.59	1316.3	1326.4	6.21	193.7	2306.4	8.22
150.0	1100.1	6.55	1357.1	1367.2	6.27	152.9	2347.2	8.18
130.0	1120.1	6.50	1377.5	1387.6	6.31	132.5	2367.6	8.13
90.0	1160.1	6.49	1418.4	1428.5	6.41	91.6	2408.5	8.11
70.0	1180.1	6.43	1438.8	1448.9	6.46	71.2	2428.9	8.13
30.0	1220.1	6.45	1479.6	1489.7	6.57	30.4	2469.7	8.16
10.0	1240.1	6.47	1500.0	1510.1	6.63	10.0	2490.1	8.12

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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	38.07	40.80	43.57	43.11	46.26	49.05
90.4	38.00	40.42	42.38	42.75	46.00	48.58
170.6	38.08	39.38	39.65	43.50	46.63	47.31
250.9	37.83	37.70	37.41	44.40	46.58	46.60
331.1	37.49	36.44	35.97	45.88	46.93	45.59
411.4	37.02	35.61	34.99	47.74	46.98	44.94
491.6	36.47	35.06	34.40	48.98	46.20	43.89
571.9	36.08	34.83	34.02	48.71	45.85	43.03
652.1	35.60	34.19	33.70	49.55	45.64	43.40
732.4	34.69	34.02	33.60	49.34	44.86	42.47
812.6	34.47	34.26	33.75	47.50	44.16	41.83
892.9	34.13	33.94	33.68	48.50	44.53	41.81
973.1	33.49	33.45	33.37	50.17	46.82	43.11
1053.4	33.23	33.32	33.47	52.86	50.95	45.19
1133.6	32.60	33.43	33.91	52.48	56.41	47.00
1213.9	31.82	33.04	33.75	51.06	61.81	48.57
1294.1	31.37	32.74	33.49	52.90	64.96	50.39
1374.4	31.20	32.69	33.40	54.17	60.81	50.97
1454.6	31.06	32.90	33.40	50.89	56.08	52.05
1534.9	31.09	32.83	33.56	48.03	52.41	52.22
1615.1	31.20	32.78	33.38	46.20	49.12	49.70
1695.4	31.51	32.85	33.47	44.58	46.30	47.04
1775.6	31.85	32.84	33.72	43.88	45.54	46.27
1855.9	32.00	32.97	33.64	43.21	44.94	45.29
1936.1	32.21	33.37	34.21	42.23	43.72	43.56
2016.4	32.37	33.52	34.52	41.34	42.56	41.88
2096.6	32.61	33.72	34.73	40.60	41.35	40.17
2176.9	32.89	33.87	34.95	39.85	40.06	38.76
2257.1	33.28	33.96	34.87	39.44	39.48	37.64
2337.4	33.51	33.81	34.57	39.04	38.99	37.06
2417.6	33.79	33.52	33.93	38.65	38.29	36.45
2497.9	33.68	33.44	33.54	38.34	37.57	35.95
2578.2	33.33	32.51	32.36	38.21	37.52	35.46
2658.4	33.06	31.91	31.37	37.52	37.05	35.13
2738.7	32.79	31.75	31.37	36.63	36.36	35.00
2839.0	31.77	30.66	30.54	35.88	35.03	34.81
2919.2	31.00	30.00	29.84	35.22	34.08	33.93
3019.5	29.75	29.05	28.76	34.36	33.38	32.70
3099.8	28.92	28.28	27.83	33.61	32.92	32.01
3200.1	28.43	27.62	27.03	32.84	32.40	31.93

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	34.78	36.59	36.98
90.4	120.4	35.77	36.90	38.00
170.6	200.6	36.97	38.39	38.81
250.9	280.9	38.56	39.72	40.07
331.1	361.1	40.80	41.26	41.70
411.4	441.4	42.56	42.87	43.85
491.6	521.6	43.88	43.23	44.02
571.9	601.9	45.32	46.29	48.10
652.1	682.1	46.83	47.74	49.57
732.4	762.4	45.99	48.67	47.80
812.6	842.6	47.58	49.30	46.24
892.9	922.9	51.40	47.04	44.14
973.1	1003.1	54.08	47.56	43.98
1053.4	1083.4	57.26	50.28	44.38
1133.6	1163.6	48.59	50.71	45.36
1213.9	1243.9	43.92	50.68	47.35
1294.1	1324.1	41.61	47.34	47.42
1374.4	1404.4	39.89	45.02	47.51
1454.6	1484.6	38.71	42.68	46.43
1534.9	1564.9	38.36	40.85	43.91
1615.1	1645.1	38.17	40.52	42.14
1695.4	1725.4	38.22	39.60	41.28
1775.6	1805.6	38.09	39.27	40.44
1855.9	1885.9	38.14	38.38	39.53
1936.1	1966.1	38.69	38.03	38.96
2016.4	2046.4	39.55	38.77	39.44
2096.6	2126.6	41.35	39.37	39.83
2176.9	2206.9	43.51	41.81	40.83
2257.1	2287.1	45.13	43.69	43.31
2337.4	2367.4	45.58	44.51	43.71
2417.6	2447.6	45.13	45.17	44.47
2497.9	2527.9	44.46	44.62	44.78
2578.2	2608.2	42.96	44.39	45.62
2658.4	2688.4	41.56	42.09	43.04
2738.7	2768.7	39.97	40.74	41.00
2839.0	2869.0	38.32	39.44	39.94
2919.2	2949.2	37.03	37.78	38.60
3019.5	3049.5	36.14	36.43	37.18
3099.8	3129.8	35.64	35.87	36.66
3200.1	3230.1	34.83	35.11	35.54

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=2500.1001MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.34	1.18	1.09	10.1	1.02	1.57	2.29	10.0	2.05	1.47	1.29
90.4	120.4	1.42	1.24	1.13	90.4	1.06	1.56	2.28	49.7	1.82	1.34	1.15
170.6	200.6	1.46	1.29	1.20	170.6	1.07	1.57	2.29	89.5	1.83	1.34	1.14
250.9	280.9	1.54	1.39	1.29	250.9	1.09	1.58	2.31	129.2	1.86	1.36	1.17
331.1	361.1	1.65	1.49	1.39	331.1	1.17	1.57	2.28	168.9	1.81	1.33	1.15
411.4	441.4	1.80	1.62	1.51	411.4	1.21	1.54	2.20	208.7	1.86	1.37	1.19
491.6	521.6	2.01	1.79	1.66	491.6	1.23	1.51	2.13	248.4	1.84	1.38	1.20
571.9	601.9	2.17	1.93	1.77	571.9	1.23	1.46	2.06	288.1	1.86	1.38	1.20
652.1	682.1	2.28	2.02	1.87	652.1	1.26	1.44	2.01	327.9	1.86	1.39	1.21
732.4	762.4	2.43	2.18	2.04	732.4	1.27	1.42	1.97	367.6	1.82	1.36	1.18
812.6	842.6	2.49	2.25	2.09	812.6	1.30	1.37	1.90	407.3	1.82	1.36	1.19
892.9	922.9	2.48	2.25	2.13	892.9	1.37	1.35	1.85	447.1	1.79	1.34	1.17
973.1	1003.1	2.48	2.25	2.14	973.1	1.42	1.33	1.80	486.8	1.76	1.31	1.14
1053.4	1083.4	2.47	2.24	2.13	1053.4	1.47	1.33	1.76	526.5	1.76	1.30	1.13
1133.6	1163.6	2.44	2.22	2.13	1133.6	1.49	1.31	1.72	566.3	1.67	1.25	1.09
1213.9	1243.9	2.40	2.18	2.08	1213.9	1.51	1.32	1.68	606.0	1.66	1.23	1.05
1294.1	1324.1	2.31	2.10	1.98	1294.1	1.51	1.31	1.64	645.7	1.63	1.21	1.05
1374.4	1404.4	2.21	2.03	1.90	1374.4	1.51	1.31	1.62	685.5	1.57	1.15	1.03
1454.6	1484.6	2.10	1.93	1.80	1454.6	1.51	1.28	1.60	725.2	1.55	1.14	1.03
1534.9	1564.9	2.00	1.83	1.70	1534.9	1.52	1.26	1.58	764.9	1.51	1.11	1.06
1615.1	1645.1	1.95	1.75	1.63	1615.1	1.52	1.24	1.55	804.7	1.47	1.09	1.09
1695.4	1725.4	1.95	1.70	1.58	1695.4	1.53	1.24	1.53	844.4	1.47	1.10	1.09
1775.6	1805.6	2.00	1.74	1.62	1775.6	1.53	1.25	1.52	884.1	1.44	1.09	1.12
1855.9	1885.9	2.06	1.82	1.71	1855.9	1.52	1.25	1.52	923.9	1.43	1.11	1.15
1936.1	1966.1	2.13	1.90	1.80	1936.1	1.53	1.25	1.52	963.6	1.44	1.14	1.18
2016.4	2046.4	2.19	1.97	1.86	2016.4	1.53	1.25	1.52	1003.3	1.42	1.17	1.21
2096.6	2126.6	2.24	2.00	1.89	2096.6	1.52	1.26	1.50	1043.1	1.45	1.23	1.27
2176.9	2206.9	2.19	1.96	1.83	2176.9	1.50	1.26	1.47	1082.8	1.48	1.25	1.28
2257.1	2287.1	2.10	1.87	1.74	2257.1	1.48	1.26	1.46	1122.5	1.45	1.28	1.33
2337.4	2367.4	1.96	1.75	1.62	2337.4	1.48	1.26	1.44	1162.3	1.53	1.36	1.40
2417.6	2447.6	1.80	1.59	1.47	2417.6	1.48	1.27	1.43	1202.0	1.52	1.36	1.39
2497.9	2527.9	1.66	1.45	1.34	2497.9	1.49	1.26	1.40	1241.7	1.58	1.46	1.51
2578.2	2608.2	1.54	1.33	1.21	2578.2	1.47	1.26	1.37	1281.5	1.64	1.49	1.50
2658.4	2688.4	1.42	1.24	1.12	2658.4	1.45	1.25	1.35	1321.2	1.60	1.48	1.52
2738.7	2768.7	1.35	1.21	1.13	2738.7	1.42	1.24	1.34	1360.9	1.71	1.60	1.63
2839.0	2869.0	1.32	1.25	1.23	2839.0	1.40	1.21	1.31	1380.8	1.72	1.60	1.62
2919.2	2949.2	1.35	1.32	1.32	2919.2	1.38	1.19	1.29	1420.5	1.70	1.60	1.62
3019.5	3049.5	1.41	1.40	1.42	3019.5	1.37	1.18	1.25	1440.4	1.74	1.66	1.70
3099.8	3129.8	1.46	1.47	1.50	3099.8	1.35	1.17	1.23	1480.1	1.84	1.73	1.74
3200.1	3230.1	1.50	1.52	1.56	3200.1	1.33	1.17	1.21	1500.0	1.84	1.71	1.72

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	33	25	30	38	38	38	30	53	41	39
1	-	45	+0	45	16	43	26	51	40	47	59	41
2	93	59	57	66	57	57	56	65	63	70	60	70
3	>100	82	63	80	66	83	66	77	68	88	68	76
4	>100	>93	89	>93	>93	>93	>93	85	87	>93	91	>93
5	>100	>93	>93	>93	>93	>93	>93	>93	89	>93	91	>93
6	>100	>93	>93	>93	>93	>93	>93	92	>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	>100	>93	>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: 1250.1 MHz; -1.00 dBm.
LO IN: 1280.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -7.49 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	37	34	43	45	54	56	48	78	63	66
1	-	46	+0	44	16	45	28	53	44	54	68	54
2	75	50	47	53	47	53	49	59	58	60	54	68
3	>100	66	41	60	48	60	60	58	56	70	63	60
4	>100	70	68	67	80	70	75	65	62	73	68	88
5	>100	79	77	76	67	91	67	74	65	74	70	80
6	>100	93	96	85	83	80	91	75	81	74	72	84
7	>100	>103	98	101	83	96	75	87	72	81	72	87
8	>100	>103	98	94	>103	91	88	88	87	86	84	83
9	>100	>103	>103	>103	>103	>103	94	99	86	95	84	93
10	>100	>103	>103	>103	>103	>103	>103	>103	101	98	95	97
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; 9.00 dBm.
LO IN: 1280.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 2.53 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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