

Frequency Mixer

SYM-ED7061/1

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	6.78	5.98	5.53	10.1	40.1	22.98	31.86	26.41	10.1	40.1	0.08	0.06	0.33
90.6	120.6	6.41	5.88	5.59	90.6	120.6	22.52	26.17	24.05	90.6	120.6	0.03	0.02	0.00
171.1	201.1	6.40	5.86	5.63	171.1	201.1	22.67	22.76	29.76	171.1	201.1	0.06	-0.01	0.00
251.6	281.6	6.55	6.06	5.76	251.6	281.6	20.81	26.99	28.32	251.6	281.6	-0.01	-0.06	-0.03
332.1	362.1	6.85	6.25	5.84	332.1	362.1	22.96	25.88	28.18	332.1	362.1	-0.11	-0.10	-0.03
412.6	442.6	7.08	6.32	5.92	412.6	442.6	23.42	27.52	29.83	412.6	442.6	-0.14	-0.05	0.00
493.0	523.0	7.19	6.32	5.88	493.0	523.0	21.61	27.02	31.56	493.0	523.0	-0.22	-0.05	0.00
573.5	603.5	7.17	6.22	5.87	573.5	603.5	21.18	30.17	32.96	573.5	603.5	-0.21	-0.01	0.00
654.0	684.0	7.03	6.22	5.92	654.0	684.0	25.02	30.17	32.05	654.0	684.0	-0.08	0.01	0.00
734.5	764.5	6.85	6.20	5.92	734.5	764.5	28.26	34.40	30.17	734.5	764.5	0.05	0.01	0.00
815.0	845.0	6.75	6.19	5.95	815.0	845.0	27.47	30.11	28.23	815.0	845.0	0.09	0.02	0.00
895.5	925.5	6.57	6.12	5.92	895.5	925.5	28.04	29.50	28.23	895.5	925.5	0.16	0.05	0.03
976.0	1006.0	6.50	6.11	5.91	976.0	1006.0	29.14	27.40	28.29	976.0	1006.0	0.16	0.06	0.03
1056.5	1086.5	6.49	6.14	5.95	1056.5	1086.5	28.75	26.06	26.29	1056.5	1086.5	0.16	0.05	0.03
1137.0	1167.0	6.49	6.15	5.98	1137.0	1167.0	25.47	27.66	26.12	1137.0	1167.0	0.17	0.06	0.04
1217.5	1247.5	6.47	6.14	5.98	1217.5	1247.5	24.66	25.17	26.05	1217.5	1247.5	0.20	0.07	0.04
1298.0	1328.0	6.39	6.07	5.95	1298.0	1328.0	23.99	25.59	26.33	1298.0	1328.0	0.26	0.09	0.05
1378.4	1408.4	6.44	6.08	5.96	1378.4	1408.4	25.58	26.05	26.24	1378.4	1408.4	0.29	0.10	0.05
1458.9	1488.9	6.61	6.13	5.99	1458.9	1488.9	20.93	27.28	28.09	1458.9	1488.9	0.26	0.11	0.04
1539.4	1569.4	6.91	6.27	6.05	1539.4	1569.4	21.93	23.73	32.98	1539.4	1569.4	0.11	0.08	0.05
1619.9	1649.9	7.22	6.51	6.24	1619.9	1649.9	22.38	34.24	33.76	1619.9	1649.9	0.05	0.07	0.04
1700.4	1730.4	7.58	6.82	6.49	1700.4	1730.4	22.17	30.04	34.26	1700.4	1730.4	0.00	0.01	0.02
1780.9	1810.9	7.91	7.14	6.70	1780.9	1810.9	20.77	25.41	32.94	1780.9	1810.9	-0.06	-0.02	0.01
1861.4	1891.4	8.21	7.36	6.94	1861.4	1891.4	20.71	25.80	33.98	1861.4	1891.4	-0.12	-0.04	-0.01
1941.9	1971.9	8.40	7.50	7.03	1941.9	1971.9	21.69	29.58	31.25	1941.9	1971.9	-0.15	-0.07	-0.01
2022.4	2052.4	8.34	7.48	7.01	2022.4	2052.4	24.75	28.97	28.58	2022.4	2052.4	-0.12	-0.06	-0.01
2102.9	2132.9	8.17	7.39	6.98	2102.9	2132.9	27.31	32.20	26.51	2102.9	2132.9	-0.04	-0.01	0.01
2203.5	2233.5	8.19	7.42	7.06	2203.5	2233.5	25.75	29.11	25.98	2203.5	2233.5	0.03	0.02	0.03
2284.0	2314.0	8.08	7.38	7.07	2284.0	2314.0	25.12	26.91	26.49	2284.0	2314.0	0.16	0.08	0.06
2384.6	2414.6	8.16	7.57	7.25	2384.6	2414.6	24.24	28.05	27.55	2384.6	2414.6	0.20	0.08	0.07
2465.1	2495.1	8.23	7.71	7.43	2465.1	2495.1	23.43	26.77	28.06	2465.1	2495.1	0.22	0.10	0.07
2565.7	2595.7	8.35	7.83	7.58	2565.7	2595.7	24.39	25.33	28.20	2565.7	2595.7	0.23	0.11	0.06
2646.2	2676.2	8.56	8.00	7.74	2646.2	2676.2	26.00	24.63	28.72	2646.2	2676.2	0.22	0.07	0.06
2746.8	2776.8	8.82	8.18	7.90	2746.8	2776.8	26.61	24.22	27.11	2746.8	2776.8	0.20	0.11	0.07
2827.3	2857.3	9.16	8.48	8.14	2827.3	2857.3	25.57	25.31	25.71	2827.3	2857.3	0.20	0.11	0.08
2927.9	2957.9	9.30	8.66	8.31	2927.9	2957.9	24.88	26.85	25.35	2927.9	2957.9	0.26	0.12	0.07
3008.4	3038.4	9.64	8.95	8.54	3008.4	3038.4	24.80	28.70	26.34	3008.4	3038.4	0.23	0.11	0.06
3109.0	3139.0	10.08	9.30	8.84	3109.0	3139.0	25.46	29.26	28.81	3109.0	3139.0	0.21	0.12	0.06
3189.5	3219.5	10.51	9.66	9.14	3189.5	3219.5	25.61	29.91	30.66	3189.5	3219.5	0.22	0.07	0.05
3290.1	3320.1	11.20	10.19	9.58	3290.1	3320.1	27.22	29.93	32.71	3290.1	3320.1	0.14	0.07	0.02

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1270.1MHz (dB)
		@LO (dBm)
		+17
1250.1	20.0	7.34
1209.4	60.7	7.24
1168.8	101.3	7.18
1128.1	142.0	7.08
1087.5	182.6	7.02
1046.8	223.3	6.95
1006.2	263.9	6.89
985.8	284.3	6.85
945.2	324.9	6.79
924.9	345.2	6.76
884.2	385.9	6.69
863.9	406.2	6.68
823.2	446.9	6.62
802.9	467.2	6.53
762.2	507.9	6.52
741.9	528.2	6.51
701.2	568.9	6.40
680.9	589.2	6.50
640.3	629.8	6.48
619.9	650.2	6.30
579.3	690.8	6.37
559.0	711.1	6.31
518.3	751.8	6.25
498.0	772.1	6.31
457.3	812.8	6.23
437.0	833.1	6.21
396.3	873.8	6.25
376.0	894.1	6.16
335.3	934.8	6.17
315.0	955.1	6.10
274.4	995.7	6.11
254.0	1016.1	6.15
213.4	1056.7	6.05
193.1	1077.0	6.07
152.4	1117.7	6.09
132.1	1138.0	6.02
91.4	1178.7	6.08
71.1	1199.0	6.09
30.4	1239.7	6.04
10.1	1260.0	6.43

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=59.9MHz (dB)
		@LO (dBm)
		+17
10.1	70.0	6.29
110.6	170.5	5.97
211.1	271.0	5.88
311.6	371.5	5.92
412.1	472.0	5.93
512.5	572.4	6.00
613.0	672.9	6.06
713.5	773.4	6.14
814.0	873.9	6.23
914.5	974.4	6.37
1015.0	1074.9	6.47
1115.5	1175.4	6.61
1216.0	1275.9	6.72
1316.4	1376.3	6.79
1416.9	1476.8	6.84
1517.4	1577.3	6.96
1617.9	1677.8	7.15
1718.4	1778.3	7.16
1818.9	1878.8	7.35
1919.4	1979.3	7.72
2040.0	2099.9	8.06
2140.4	2200.3	8.31
2261.0	2320.9	8.23
2361.5	2421.4	8.24
2482.1	2542.0	8.12
2582.6	2642.5	8.09
2703.2	2763.1	8.05
2803.7	2863.6	7.89
2924.2	2984.1	7.58
3024.7	3084.6	7.50
3145.3	3205.2	7.25
3245.8	3305.7	7.37
3366.4	3426.3	7.56
3466.9	3526.8	7.84
3587.5	3647.4	8.38
3688.0	3747.9	8.79
3808.5	3868.4	9.36
3909.0	3968.9	9.98
4029.6	4089.5	10.46
4130.1	4190.0	10.99

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2530.1MHz (dB)
		@LO (dBm)
		+17
2510.1	20.0	9.75
2450.1	80.0	9.73
2390.1	140.0	9.76
2330.1	200.0	9.74
2270.1	260.0	9.74
2210.1	320.0	9.56
2150.1	380.0	9.46
2090.1	440.0	9.44
2030.1	500.0	9.26
1970.1	560.0	9.31
1910.1	620.0	9.26
1850.1	680.0	9.17
1790.1	740.0	9.09
1730.1	800.0	9.01
1670.1	860.0	8.92
1610.1	920.0	8.93
1550.1	980.0	8.95
1490.1	1040.0	8.91
1430.1	1100.0	8.90
1370.1	1160.0	8.88
1310.1	1220.0	8.74
1250.1	1280.0	8.65
1190.1	1340.0	8.57
1130.1	1400.0	8.59
1050.1	1480.0	8.59
990.1	1540.0	8.60
910.1	1620.0	8.60
850.1	1680.0	8.61
770.1	1760.0	8.53
710.1	1820.0	8.45
630.1	1900.0	8.32
570.1	1960.0	8.27
490.1	2040.0	8.21
430.1	2100.0	8.04
350.1	2180.0	8.13
290.1	2240.0	8.07
210.1	2320.0	7.90
150.1	2380.0	7.94
70.1	2460.0	7.92
10.1	2520.0	8.29

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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
40.1	30.76	34.28	37.80	43.49	47.91	51.74
120.6	33.76	37.25	41.01	44.19	48.31	50.55
201.1	34.44	37.98	41.66	46.01	49.49	48.48
281.6	35.02	38.73	42.75	48.23	49.31	45.70
362.1	35.23	39.04	43.19	52.97	47.68	43.47
442.6	35.56	39.72	44.42	60.53	45.92	42.09
523.0	35.38	39.47	44.79	61.56	44.57	40.95
603.5	35.59	39.91	45.89	53.70	43.30	40.22
684.0	36.17	40.71	47.38	50.67	42.55	39.19
764.5	36.74	41.20	46.97	48.10	41.94	38.77
845.0	36.81	40.64	45.13	45.91	41.23	38.59
925.5	36.83	40.03	43.08	44.74	40.99	38.25
1006.0	36.89	39.88	42.29	42.42	40.26	37.93
1086.5	36.45	39.15	41.23	39.89	39.47	37.73
1167.0	36.41	39.01	40.89	38.23	38.99	37.75
1247.5	35.78	37.75	39.46	37.30	38.55	37.72
1328.0	35.23	37.22	39.15	35.99	38.06	37.80
1408.4	34.96	36.83	38.43	34.66	37.37	37.63
1488.9	33.99	36.49	38.45	33.83	36.97	38.15
1569.4	32.71	35.31	38.20	33.29	36.73	38.72
1649.9	31.60	33.56	36.37	32.94	36.31	39.23
1730.4	30.79	32.49	34.71	32.36	35.50	38.94
1810.9	30.38	31.61	33.36	31.69	34.68	38.40
1891.4	30.13	31.12	32.54	32.04	34.36	37.92
1971.9	29.86	30.68	32.05	32.67	35.01	38.13
2052.4	29.54	30.55	31.69	32.99	35.36	38.88
2132.9	29.50	30.78	32.24	33.31	35.58	38.89
2233.5	29.69	30.98	32.86	33.61	36.47	40.13
2314.0	29.60	31.03	33.26	33.37	35.94	39.20
2414.6	29.83	31.16	32.80	33.41	35.86	38.19
2495.1	29.80	31.43	33.07	33.70	35.58	36.73
2595.7	29.39	31.45	33.54	33.61	34.80	34.87
2676.2	29.10	31.06	33.19	33.21	34.10	34.04
2776.8	29.40	30.91	32.50	32.68	32.57	32.13
2857.3	29.54	30.72	31.89	32.09	31.54	30.92
2957.9	29.20	30.71	31.89	31.31	30.38	29.25
3038.4	29.17	30.68	32.11	30.95	29.93	28.79
3139.0	29.18	30.85	32.49	30.14	29.32	28.72
3219.5	29.33	31.15	32.94	29.70	28.87	28.53
3320.1	29.45	31.46	33.48	29.35	28.86	28.55

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	35.75	36.38	35.47
90.6	120.6	36.69	36.83	37.49
171.1	201.1	36.93	37.00	38.20
251.6	281.6	37.84	38.44	38.58
332.1	362.1	39.19	39.97	40.60
412.6	442.6	41.03	41.12	41.85
493.0	523.0	44.60	42.64	42.49
573.5	603.5	54.33	46.99	45.82
654.0	684.0	53.85	48.11	44.78
734.5	764.5	46.55	45.55	46.24
815.0	845.0	43.61	45.97	43.31
895.5	925.5	42.18	42.52	42.82
976.0	1006.0	39.82	40.84	39.80
1056.5	1086.5	37.30	37.83	38.29
1137.0	1167.0	35.95	36.69	37.06
1217.5	1247.5	34.91	36.12	35.98
1298.0	1328.0	34.73	35.67	36.43
1378.4	1408.4	33.93	35.44	36.81
1458.9	1488.9	33.17	34.46	35.28
1539.4	1569.4	32.95	33.90	34.47
1619.9	1649.9	32.29	33.73	35.07
1700.4	1730.4	32.13	33.15	33.91
1780.9	1810.9	32.16	32.91	33.62
1861.4	1891.4	32.25	33.53	34.04
1941.9	1971.9	33.49	34.54	35.38
2022.4	2052.4	34.37	35.90	36.59
2102.9	2132.9	36.14	37.45	38.76
2203.5	2233.5	40.13	41.01	41.82
2284.0	2314.0	42.10	42.29	43.45
2384.6	2414.6	44.04	44.30	42.85
2465.1	2495.1	49.43	45.81	43.21
2565.7	2595.7	45.58	43.05	41.27
2646.2	2676.2	41.50	38.74	37.18
2746.8	2776.8	39.45	36.87	35.61
2827.3	2857.3	39.14	37.94	36.99
2927.9	2957.9	35.63	35.96	35.54
3008.4	3038.4	34.17	34.56	34.68
3109.0	3139.0	33.02	33.05	33.70
3189.5	3219.5	32.26	32.64	32.95
3290.1	3320.1	30.94	31.62	31.74

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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=2520MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.51	1.43	1.32	40.1	1.15	1.69	2.57	10.0	1.48	1.22	1.08
90.6	120.6	1.36	1.17	1.08	120.6	1.07	1.60	2.40	70.0	1.42	1.19	1.06
171.1	201.1	1.39	1.22	1.14	201.1	1.05	1.53	2.29	130.0	1.40	1.17	1.04
251.6	281.6	1.46	1.32	1.23	281.6	1.06	1.51	2.23	190.0	1.42	1.19	1.07
332.1	362.1	1.60	1.44	1.33	362.1	1.09	1.50	2.22	250.0	1.38	1.16	1.07
412.6	442.6	1.76	1.56	1.45	442.6	1.12	1.49	2.19	310.0	1.35	1.14	1.07
493.0	523.0	1.93	1.70	1.56	523.0	1.11	1.49	2.18	370.0	1.33	1.13	1.10
573.5	603.5	2.03	1.77	1.64	603.5	1.10	1.46	2.15	430.0	1.28	1.11	1.13
654.0	684.0	2.06	1.82	1.70	684.0	1.12	1.44	2.12	490.0	1.24	1.10	1.16
734.5	764.5	2.02	1.81	1.70	764.5	1.14	1.42	2.07	550.0	1.21	1.11	1.20
815.0	845.0	1.98	1.80	1.70	845.0	1.14	1.41	2.04	610.0	1.16	1.14	1.26
895.5	925.5	1.88	1.73	1.64	925.5	1.17	1.41	2.02	670.0	1.14	1.15	1.28
976.0	1006.0	1.80	1.67	1.60	1006.0	1.21	1.41	2.02	730.0	1.13	1.19	1.31
1056.5	1086.5	1.73	1.60	1.53	1086.5	1.27	1.43	2.00	790.0	1.11	1.22	1.36
1137.0	1167.0	1.66	1.54	1.47	1167.0	1.31	1.42	1.96	850.0	1.09	1.20	1.34
1217.5	1247.5	1.58	1.44	1.37	1247.5	1.36	1.41	1.92	910.0	1.08	1.21	1.36
1298.0	1328.0	1.48	1.33	1.27	1328.0	1.42	1.41	1.90	970.0	1.04	1.21	1.36
1378.4	1408.4	1.46	1.28	1.20	1408.4	1.50	1.42	1.89	1030.0	1.02	1.17	1.32
1458.9	1488.9	1.47	1.25	1.15	1488.9	1.56	1.42	1.85	1090.0	1.04	1.19	1.33
1539.4	1569.4	1.47	1.28	1.16	1569.4	1.57	1.41	1.80	1150.0	1.11	1.20	1.33
1619.9	1649.9	1.44	1.25	1.15	1649.9	1.56	1.38	1.75	1210.0	1.20	1.24	1.35
1700.4	1730.4	1.41	1.24	1.15	1730.4	1.55	1.34	1.70	1270.0	1.25	1.28	1.38
1780.9	1810.9	1.39	1.25	1.15	1810.9	1.53	1.30	1.66	1330.0	1.35	1.35	1.42
1861.4	1891.4	1.38	1.23	1.15	1891.4	1.51	1.25	1.62	1390.0	1.44	1.41	1.46
1941.9	1971.9	1.38	1.25	1.19	1971.9	1.48	1.19	1.59	1470.0	1.56	1.48	1.49
2022.4	2052.4	1.40	1.31	1.27	2052.4	1.44	1.13	1.56	1530.0	1.67	1.57	1.56
2102.9	2132.9	1.47	1.41	1.40	2132.9	1.41	1.10	1.53	1610.0	1.83	1.71	1.67
2203.5	2233.5	1.61	1.58	1.57	2233.5	1.39	1.10	1.54	1670.0	1.96	1.83	1.78
2284.0	2314.0	1.77	1.75	1.75	2314.0	1.35	1.11	1.53	1750.0	2.08	1.94	1.88
2384.6	2414.6	2.00	1.99	1.98	2414.6	1.29	1.15	1.56	1810.0	2.22	2.08	2.01
2465.1	2495.1	2.16	2.16	2.15	2495.1	1.23	1.17	1.56	1890.0	2.39	2.24	2.17
2565.7	2595.7	2.40	2.36	2.33	2595.7	1.17	1.21	1.59	1950.0	2.52	2.36	2.28
2646.2	2676.2	2.58	2.50	2.45	2676.2	1.12	1.24	1.59	2030.0	2.66	2.50	2.42
2746.8	2776.8	2.77	2.62	2.54	2776.8	1.07	1.27	1.60	2090.0	2.77	2.60	2.52
2827.3	2857.3	2.89	2.71	2.59	2857.3	1.03	1.29	1.60	2170.0	2.95	2.79	2.71
2927.9	2957.9	3.00	2.80	2.65	2957.9	1.03	1.33	1.61	2230.0	3.00	2.83	2.74
3008.4	3038.4	3.03	2.81	2.63	3038.4	1.08	1.36	1.64	2310.0	3.11	2.93	2.83
3109.0	3139.0	3.14	2.92	2.74	3139.0	1.14	1.42	1.68	2370.0	3.21	3.03	2.92
3189.5	3219.5	3.30	3.07	2.90	3219.5	1.21	1.48	1.74	2450.0	3.22	3.05	2.94
3290.1	3320.1	3.48	3.25	3.07	3320.1	1.30	1.55	1.79	2510.0	3.30	3.15	3.04

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	10	16	22	13	32	34	42	22	67
1	-	28	+0	45	15	47	21	44	47	38	46	41
2	64	73	63	>76	62	75	64	72	58	>76	74	>76
3	>90	>76	74	>76	75	>76	>76	>76	>76	>76	>76	>76
4	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
5	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
6	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
7	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
8	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
9	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
10	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:

RF IN: 1295 MHz; -5.00 dBm.

LO IN: 1325 MHz; +17.00 dBm

IF OUT: 30 MHz; -13.53 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	21	30	37	26	46	48	54	37	75
1	-	29	+0	45	14	44	22	46	47	40	49	44
2	45	64	52	69	50	63	53	62	48	70	66	70
3	>90	82	56	70	53	69	63	67	59	76	75	63
4	>90	>88	>88	>88	84	>88	82	>88	80	>88	78	>88
5	>90	>88	>88	>88	83	>88	87	>88	87	>88	87	>88
6	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>90	>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: 1295 MHz; 5.00 dBm.

LO IN: 1325 MHz; +17.00 dBm

IF OUT: 30 MHz; -1.88 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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