

Frequency Mixer

SRA-2000+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
50.1	80.1	10.98	10.95	10.95
130.4	160.4	7.81	7.55	7.37
210.7	240.7	7.69	7.30	7.03
270.9	300.9	7.57	7.06	6.77
351.2	381.2	7.98	7.33	6.94
411.4	441.4	8.40	7.70	7.26
491.7	521.7	8.64	7.92	7.48
551.9	581.9	8.67	8.00	7.57
632.2	662.2	8.34	7.83	7.48
692.4	722.4	8.17	7.70	7.38
772.7	802.7	7.86	7.51	7.27
832.9	862.9	7.69	7.39	7.18
913.2	943.2	7.33	7.09	6.94
973.5	1003.5	7.11	6.85	6.72
1053.7	1083.7	7.10	6.73	6.57
1114.0	1144.0	7.05	6.67	6.52
1194.3	1224.3	7.16	6.74	6.58
1254.5	1284.5	7.36	6.89	6.69
1334.8	1364.8	7.73	7.15	6.85
1395.0	1425.0	7.76	7.19	6.86
1475.3	1505.3	7.73	7.16	6.83
1535.5	1565.5	7.74	7.20	6.88
1615.8	1645.8	7.59	7.17	6.92
1676.0	1706.0	7.59	7.19	6.98
1756.3	1786.3	7.58	7.23	7.02
1816.5	1846.5	7.54	7.22	7.02
1896.8	1926.8	7.65	7.32	7.10
1957.0	1987.0	7.85	7.49	7.31
2037.3	2067.3	8.02	7.63	7.42
2097.5	2127.5	7.96	7.60	7.40
2177.8	2207.8	8.05	7.67	7.46
2238.1	2268.1	8.27	7.87	7.62
2318.3	2348.3	8.47	8.05	7.77
2378.6	2408.6	8.48	8.05	7.82
2458.9	2488.9	8.75	8.29	8.01
2519.1	2549.1	9.09	8.62	8.30
2599.4	2629.4	9.59	9.10	8.77
2659.6	2689.6	10.18	9.68	9.28
2739.9	2769.9	10.73	10.21	9.79
2800.1	2830.1	11.20	10.60	10.19

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
50.1	80.1	9.43	10.10	10.99
130.4	160.4	6.95	8.17	10.42
210.7	240.7	7.44	10.08	12.89
270.9	300.9	8.68	11.93	15.05
351.2	381.2	8.92	12.54	15.67
411.4	441.4	9.41	11.87	13.51
491.7	521.7	9.17	10.94	11.99
551.9	581.9	8.18	10.12	11.69
632.2	662.2	7.69	9.11	10.58
692.4	722.4	7.49	8.89	10.00
772.7	802.7	7.27	8.16	9.18
832.9	862.9	7.15	8.12	8.96
913.2	943.2	7.74	8.79	9.71
973.5	1003.5	7.84	9.08	9.97
1053.7	1083.7	8.38	9.68	11.57
1114.0	1144.0	9.41	10.08	11.74
1194.3	1224.3	11.64	12.62	13.43
1254.5	1284.5	15.70	15.79	15.06
1334.8	1364.8	15.01	15.50	15.55
1395.0	1425.0	11.49	12.02	12.29
1475.3	1505.3	8.93	9.77	10.38
1535.5	1565.5	7.53	8.86	9.95
1615.8	1645.8	7.63	8.83	9.87
1676.0	1706.0	8.18	9.47	10.76
1756.3	1786.3	8.88	10.03	11.02
1816.5	1846.5	8.64	9.64	10.62
1896.8	1926.8	9.33	9.74	11.01
1957.0	1987.0	9.59	10.77	11.73
2037.3	2067.3	9.85	10.79	12.30
2097.5	2127.5	9.97	10.06	11.55
2177.8	2207.8	10.33	10.66	11.04
2238.1	2268.1	9.97	10.68	11.28
2318.3	2348.3	10.57	11.79	12.69
2378.6	2408.6	10.11	11.86	13.51
2458.9	2488.9	11.10	12.61	13.92
2519.1	2549.1	11.47	14.01	16.36
2599.4	2629.4	12.60	14.14	16.26
2659.6	2689.6	14.11	14.03	15.00
2739.9	2769.9	13.69	16.37	15.97
2800.1	2830.1	12.75	16.29	16.47

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
50.1	20.1	-0.41	-0.23	-0.13
130.4	100.4	0.64	0.42	0.25
210.7	180.7	1.14	0.87	0.69
270.9	240.9	1.26	1.05	0.86
351.2	321.2	1.22	1.11	0.93
411.4	381.4	1.03	0.95	0.85
491.7	461.7	1.03	0.95	0.86
551.9	521.9	1.04	1.01	0.89
632.2	602.2	1.11	0.95	0.82
692.4	662.4	1.28	1.02	0.83
772.7	742.7	1.25	0.99	0.81
832.9	802.9	1.20	0.98	0.80
913.2	883.2	1.13	0.95	0.80
973.5	943.5	0.98	0.82	0.70
1053.7	1023.7	0.84	0.62	0.52
1114.0	1084.0	0.77	0.51	0.39
1194.3	1164.3	0.73	0.45	0.29
1254.5	1224.5	0.67	0.40	0.26
1334.8	1304.8	0.78	0.54	0.36
1395.0	1365.0	0.90	0.68	0.50
1475.3	1445.3	1.06	0.85	0.66
1535.5	1505.5	1.06	0.85	0.66
1615.8	1585.8	1.10	0.88	0.68
1676.0	1646.0	1.12	0.91	0.71
1756.3	1726.3	1.04	0.81	0.66
1816.5	1786.5	1.02	0.78	0.63
1896.8	1866.8	0.87	0.65	0.52
1957.0	1927.0	0.77	0.57	0.44
2037.3	2007.3	0.71	0.52	0.41
2097.5	2067.5	0.76	0.54	0.42
2177.8	2147.8	0.77	0.54	0.40
2238.1	2208.1	0.71	0.49	0.36
2318.3	2288.3	0.77	0.53	0.39
2378.6	2348.6	0.84	0.57	0.41
2458.9	2428.9	0.89	0.55	0.40
2519.1	2489.1	0.79	0.45	0.33
2599.4	2569.4	0.73	0.39	0.27
2659.6	2629.6	0.71	0.36	0.24
2739.9	2709.9	0.70	0.34	0.23
2800.1	2770.1	0.63	0.29	0.19

REV. X3

SRA-2000+

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1050MHz (dB)
		@LO (dBm)
		+7
899.9	150.1	10.23
860.3	189.7	9.80
820.8	229.2	9.26
781.2	268.8	9.14
741.7	308.3	8.50
702.1	347.9	7.96
662.6	387.4	7.63
623.0	427.0	7.26
583.5	466.5	6.85
543.9	506.1	6.40
504.4	545.6	8.72
464.8	585.2	7.75
425.3	624.7	7.20
385.7	664.3	6.84
346.2	703.8	6.59
286.9	763.1	6.26
247.3	802.7	6.22
188.0	862.0	6.08
148.4	901.6	6.08
89.1	960.9	6.16
49.6	1000.4	6.32
10.0	1060.0	7.23
51.8	1101.8	6.17
114.5	1164.5	6.08
156.2	1206.2	6.02
218.9	1268.9	6.03
260.7	1310.7	6.15
323.4	1373.4	6.39
365.1	1415.1	6.44
427.8	1477.8	6.73
469.6	1519.6	6.96
532.3	1582.3	7.26
574.1	1624.1	7.46
636.7	1686.7	7.82
678.5	1728.5	8.01
741.2	1791.2	8.33
783.0	1833.0	8.66
845.6	1895.6	9.04
887.4	1937.4	9.44
950.1	2000.1	10.26

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=90MHz (dB)
		@LO (dBm)
		+7
10.1	100.1	8.87
30.1	120.1	7.98
50.1	140.1	7.49
70.1	160.1	7.30
90.1	180.1	7.25
110.1	200.1	7.13
130.1	220.1	7.01
150.1	240.1	7.01
170.1	260.1	6.97
190.1	280.1	6.89
210.1	300.1	6.85
230.1	320.1	6.90
250.1	340.1	6.99
270.1	360.1	7.00
290.1	380.1	7.06
310.1	400.1	7.12
330.1	420.1	7.11
350.1	440.1	7.05
370.1	460.1	7.07
390.1	480.1	7.07
410.1	500.1	7.11
430.1	520.1	7.21
450.1	540.1	7.35
470.1	560.1	7.41
490.1	580.1	7.43
510.1	600.1	7.60
530.1	620.1	7.77
550.1	640.1	7.86
590.1	680.1	8.06
610.1	700.1	8.17
650.1	740.1	8.47
670.1	760.1	8.57
710.1	800.1	8.81
730.1	820.1	8.94
770.1	860.1	9.32
790.1	880.1	9.41
830.1	920.1	9.63
850.1	940.1	9.91
890.1	980.1	10.22
910.1	1000.1	10.37

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2010.1MHz (dB)
		@LO (dBm)
		+7
1110.0	900.1	13.15
1090.0	920.1	12.57
1070.0	940.1	12.20
1050.0	960.1	11.86
1030.0	980.1	11.38
1010.0	1000.1	9.38
990.0	1020.1	9.29
970.0	1040.1	9.62
930.0	1080.1	9.41
910.0	1100.1	9.24
870.0	1140.1	9.07
850.0	1160.1	9.04
810.0	1200.1	8.80
790.0	1220.1	8.81
750.0	1260.1	8.60
730.0	1280.1	8.46
690.0	1320.1	8.23
670.0	1340.1	8.18
630.0	1380.1	7.98
610.0	1400.1	7.84
570.0	1440.1	7.62
550.0	1460.1	7.52
510.0	1500.1	7.22
490.0	1520.1	7.03
450.0	1560.1	6.91
430.0	1580.1	6.77
390.0	1620.1	6.66
370.0	1640.1	6.65
330.0	1680.1	6.62
310.0	1700.1	6.63
270.0	1740.1	6.57
250.0	1760.1	6.66
210.0	1800.1	6.63
190.0	1820.1	6.61
150.0	1860.1	6.68
130.0	1880.1	6.71
90.0	1920.1	6.81
70.0	1940.1	6.85
30.0	1980.1	7.46
10.0	2000.1	8.08

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
80.1	62.46	63.78	64.94	51.46	52.28	52.78
160.4	56.47	58.05	59.51	51.93	50.50	49.08
240.7	53.62	55.16	56.87	51.22	47.87	46.03
300.9	51.37	53.08	54.63	50.69	46.63	44.66
381.2	49.44	51.05	52.52	47.76	44.70	42.90
441.4	48.73	50.29	51.76	45.94	43.23	41.66
521.7	47.37	48.88	50.12	44.08	42.28	40.83
581.9	46.93	48.28	49.30	43.09	41.43	40.15
662.2	44.82	46.28	47.61	42.56	40.82	39.50
722.4	45.14	46.72	48.29	41.22	40.17	39.00
802.7	45.11	46.83	48.36	39.19	38.72	37.83
862.9	45.37	47.07	48.56	38.01	37.76	37.10
943.2	44.93	46.81	48.70	37.17	37.00	36.27
1003.5	44.55	46.24	48.03	36.06	36.17	35.40
1083.7	44.22	45.60	46.85	33.54	34.10	33.59
1144.0	43.52	44.78	45.84	31.30	32.00	31.77
1224.3	42.25	42.82	43.58	27.60	28.41	28.61
1284.5	41.31	41.59	41.51	25.21	26.33	26.80
1364.8	41.42	44.80	45.38	27.36	28.48	29.11
1425.0	40.47	44.40	47.51	32.12	33.34	33.99
1505.3	39.35	42.73	46.34	41.45	43.24	44.10
1565.5	38.46	41.43	44.47	53.99	57.36	59.37
1645.8	37.63	40.20	43.07	39.37	40.28	40.99
1706.0	37.34	39.83	42.56	35.26	36.18	37.12
1786.3	37.45	39.68	41.77	32.03	33.24	34.38
1846.5	36.75	39.54	41.96	30.38	31.68	33.06
1926.8	36.53	39.70	42.46	28.77	30.20	31.53
1987.0	36.33	39.14	41.99	27.79	29.31	30.78
2067.3	36.53	39.00	41.38	26.78	28.24	29.81
2127.5	36.44	39.09	41.45	26.24	27.77	29.39
2207.8	36.54	39.17	41.84	25.84	27.51	29.19
2268.1	36.43	38.89	41.36	25.55	27.34	29.12
2348.3	36.05	38.23	40.49	25.66	27.65	29.64
2408.6	35.83	37.75	39.94	26.18	28.62	31.11
2488.9	35.92	37.90	40.09	26.36	29.39	32.79
2549.1	35.98	38.07	40.07	26.22	29.48	33.14
2629.4	36.17	38.41	40.22	26.19	29.51	32.97
2689.6	35.81	38.63	40.81	26.52	29.35	30.95
2769.9	35.63	38.55	40.76	26.09	28.12	28.14
2830.1	35.32	38.18	40.00	25.24	26.65	26.29

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
50.1	80.1	19.28	19.14	18.61
130.4	160.4	23.37	23.17	23.83
210.7	240.7	24.79	25.20	25.43
270.9	300.9	25.82	26.38	26.43
351.2	381.2	27.80	27.98	28.23
411.4	441.4	29.68	30.34	30.71
491.7	521.7	33.69	34.81	35.62
551.9	581.9	38.54	39.44	40.26
632.2	662.2	44.65	43.77	43.08
692.4	722.4	40.24	39.69	39.31
772.7	802.7	33.22	32.99	32.86
832.9	862.9	30.69	30.69	30.63
913.2	943.2	28.52	28.08	28.04
973.5	1003.5	27.16	26.60	26.21
1053.7	1083.7	26.01	25.33	24.90
1114.0	1144.0	24.88	24.33	23.89
1194.3	1224.3	22.76	22.76	22.54
1254.5	1284.5	20.87	21.00	21.15
1334.8	1364.8	23.29	23.62	23.82
1395.0	1425.0	29.01	29.43	29.88
1475.3	1505.3	27.14	27.38	27.55
1535.5	1565.5	24.39	24.68	24.86
1615.8	1645.8	22.44	22.73	23.00
1676.0	1706.0	21.78	22.09	22.35
1756.3	1786.3	21.40	21.78	22.04
1816.5	1846.5	21.50	21.94	22.13
1896.8	1926.8	21.72	22.22	22.55
1957.0	1987.0	22.14	22.72	23.12
2037.3	2067.3	22.68	23.23	23.66
2097.5	2127.5	23.12	23.53	23.88
2177.8	2207.8	23.90	24.03	24.13
2238.1	2268.1	24.36	24.47	24.56
2318.3	2348.3	25.53	25.57	25.58
2378.6	2408.6	27.02	27.18	27.22
2458.9	2488.9	29.22	29.45	29.43
2519.1	2549.1	29.99	30.02	29.75
2599.4	2629.4	28.60	27.70	27.36
2659.6	2689.6	27.52	26.23	25.34
2739.9	2769.9	27.98	25.83	24.45
2800.1	2830.1	25.92	24.21	23.00

Frequency Mixer

SRA-2000+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
50.1	80.1	5.51	5.77	5.85	80.1	1.69	2.42	3.31	10.0	1.58	1.59	1.63
130.4	160.4	2.60	2.61	2.59	160.4	1.74	2.46	3.37	30.2	1.18	1.25	1.34
210.7	240.7	2.46	2.40	2.35	240.7	1.79	2.52	3.43	50.4	1.16	1.22	1.30
270.9	300.9	2.73	2.60	2.52	300.9	1.80	2.51	3.40	70.6	1.19	1.22	1.29
351.2	381.2	3.22	3.01	2.87	381.2	1.83	2.49	3.35	90.8	1.18	1.20	1.27
411.4	441.4	3.52	3.27	3.08	441.4	1.85	2.50	3.34	111.0	1.20	1.23	1.30
491.7	521.7	3.91	3.60	3.39	521.7	1.90	2.52	3.34	131.2	1.19	1.22	1.29
551.9	581.9	4.23	3.91	3.68	581.9	1.88	2.48	3.27	151.4	1.23	1.26	1.33
632.2	662.2	4.11	3.88	3.71	662.2	1.91	2.42	3.16	171.6	1.25	1.27	1.34
692.4	722.4	3.79	3.61	3.47	722.4	1.97	2.41	3.09	191.8	1.25	1.28	1.35
772.7	802.7	3.37	3.27	3.18	802.7	2.04	2.39	3.01	212.0	1.28	1.32	1.39
832.9	862.9	3.11	3.01	2.93	862.9	2.07	2.35	2.92	232.2	1.29	1.34	1.41
913.2	943.2	2.69	2.59	2.53	943.2	2.12	2.26	2.75	252.4	1.33	1.38	1.46
973.5	1003.5	2.43	2.28	2.21	1003.5	2.17	2.23	2.65	272.7	1.32	1.38	1.45
1053.7	1083.7	2.18	1.98	1.88	1083.7	2.19	2.16	2.51	292.9	1.35	1.42	1.50
1114.0	1144.0	2.02	1.81	1.68	1144.0	2.16	2.07	2.37	313.1	1.37	1.44	1.53
1194.3	1224.3	1.84	1.63	1.51	1224.3	2.15	1.96	2.18	333.3	1.39	1.46	1.55
1254.5	1284.5	1.79	1.58	1.45	1284.5	2.17	1.90	2.05	353.5	1.40	1.49	1.59
1334.8	1364.8	1.85	1.65	1.53	1364.8	1.97	1.76	1.91	373.7	1.41	1.50	1.59
1395.0	1425.0	1.87	1.69	1.57	1425.0	1.81	1.58	1.74	393.9	1.44	1.54	1.64
1475.3	1505.3	1.90	1.74	1.62	1505.3	1.67	1.38	1.54	434.3	1.49	1.60	1.71
1535.5	1565.5	1.90	1.77	1.67	1565.5	1.59	1.25	1.43	454.5	1.49	1.61	1.73
1615.8	1645.8	1.90	1.81	1.74	1645.8	1.50	1.13	1.36	494.9	1.53	1.66	1.79
1676.0	1706.0	1.88	1.81	1.77	1706.0	1.41	1.07	1.36	515.1	1.58	1.72	1.86
1756.3	1786.3	1.93	1.88	1.84	1786.3	1.29	1.09	1.43	555.5	1.60	1.76	1.90
1816.5	1846.5	2.02	1.98	1.96	1846.5	1.20	1.17	1.52	575.7	1.66	1.84	2.00
1896.8	1926.8	2.09	2.04	2.02	1926.8	1.10	1.30	1.66	616.1	1.79	1.98	2.16
1957.0	1987.0	2.05	2.00	1.98	1987.0	1.09	1.39	1.76	636.3	1.76	1.96	2.14
2037.3	2067.3	2.06	1.99	1.95	2067.3	1.17	1.51	1.88	676.7	1.89	2.12	2.32
2097.5	2127.5	2.08	2.00	1.96	2127.5	1.25	1.60	1.97	696.9	1.95	2.17	2.38
2177.8	2207.8	2.02	1.94	1.88	2207.8	1.38	1.75	2.13	737.3	2.01	2.25	2.47
2238.1	2268.1	1.87	1.80	1.75	2268.1	1.48	1.86	2.24	757.6	2.16	2.42	2.66
2318.3	2348.3	1.69	1.61	1.56	2348.3	1.60	1.97	2.36	798.0	2.32	2.58	2.82
2378.6	2408.6	1.58	1.49	1.45	2408.6	1.71	2.08	2.47	818.2	2.38	2.65	2.89
2458.9	2488.9	1.40	1.34	1.31	2488.9	1.90	2.27	2.66	858.6	2.66	2.93	3.17
2519.1	2549.1	1.29	1.28	1.29	2549.1	2.03	2.38	2.77	878.8	2.72	2.98	3.21
2599.4	2629.4	1.25	1.29	1.35	2629.4	2.23	2.54	2.91	919.2	2.94	3.19	3.41
2659.6	2689.6	1.31	1.38	1.45	2689.6	2.45	2.72	3.08	939.4	3.17	3.42	3.65
2739.9	2769.9	1.51	1.60	1.68	2769.9	2.72	2.94	3.27	979.8	3.37	3.61	3.82
2800.1	2830.1	1.76	1.88	1.96	2830.1	2.91	3.06	3.35	1000.0	3.67	3.58	3.82

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	28	11	33	40	52	46	53	43	43
1	-	19	+0	56	16	43	31	37	41	47	48	60
2	>90	63	57	61	61	>69	51	>69	65	>69	>69	>69
3	>90	>69	62	>69	55	>69	64	>69	>69	>69	>69	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:

RF IN: 1050 MHz; -14.00 dBm.

LO IN: 1080 MHz; +7.00 dBm

IF OUT: 30 MHz; -20.87 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	37	22	44	54	64	59	68	57	57
1	-	18	+0	50	16	47	32	42	46	54	59	69
2	69	59	50	63	53	72	46	63	63	>79	>79	78
3	>90	55	44	60	38	60	45	60	52	56	58	63
4	>90	78	71	74	66	69	68	77	61	76	72	>79
5	>90	>79	74	>79	65	76	55	78	58	75	65	70
6	>90	>79	>79	>79	>79	>79	76	>79	>79	>79	74	>79
7	>90	>79	>79	>79	>79	>79	>79	>79	68	>79	72	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 1050 MHz; -4.00 dBm.

LO IN: 1080 MHz; +7.00 dBm

IF OUT: 30 MHz; -10.93 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.