

Frequency Mixer

SAM-5

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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
5.0	35.0	5.86	5.58	5.34	10.1	40.1	17.58	15.29	16.86	10.1	40.1	1.38	0.84	0.66
10.1	40.1	6.09	5.74	5.44	70.4	100.4	12.25	13.48	14.11	70.4	100.4	1.37	0.93	0.68
70.4	100.4	6.34	6.03	5.84	130.7	160.7	12.31	13.46	19.81	130.7	160.7	1.35	0.90	0.64
130.7	160.7	6.41	6.04	5.85	191.0	221.0	11.90	15.80	18.90	191.0	221.0	1.28	0.92	0.66
191.0	221.0	6.47	6.10	5.91	231.2	261.2	13.01	19.39	15.34	231.2	261.2	1.36	0.95	0.70
231.2	261.2	6.51	6.12	5.92	291.5	321.5	16.30	15.95	14.68	291.5	321.5	1.31	0.97	0.72
291.5	321.5	6.51	6.14	5.94	331.7	361.7	18.37	13.48	14.18	331.7	361.7	1.35	0.97	0.73
331.7	361.7	6.63	6.21	6.01	392.0	422.0	15.22	14.22	17.51	392.0	422.0	1.28	0.96	0.73
392.0	422.0	6.63	6.27	6.06	432.2	462.2	13.85	12.27	12.42	432.2	462.2	1.42	1.05	0.81
432.2	462.2	6.64	6.25	6.05	492.5	522.5	10.00	11.81	14.13	492.5	522.5	1.33	1.03	0.83
492.5	522.5	6.71	6.30	6.07	532.7	562.7	9.02	10.37	12.87	532.7	562.7	1.22	0.93	0.78
532.7	562.7	6.85	6.45	6.20	593.0	623.0	8.50	9.69	11.51	593.0	623.0	1.16	0.90	0.75
593.0	623.0	6.91	6.54	6.33	633.2	663.2	9.94	11.37	12.77	633.2	663.2	1.17	0.90	0.75
633.2	663.2	6.96	6.61	6.41	693.5	723.5	11.29	15.09	18.26	693.5	723.5	1.13	0.88	0.73
693.5	723.5	7.04	6.64	6.45	733.7	763.7	9.27	11.64	14.64	733.7	763.7	1.05	0.81	0.70
733.7	763.7	7.17	6.77	6.52	794.0	824.0	9.33	9.98	11.66	794.0	824.0	1.15	0.83	0.70
794.0	824.0	7.07	6.74	6.54	834.2	864.2	10.20	10.56	11.45	834.2	864.2	1.19	0.87	0.72
834.2	864.2	7.01	6.70	6.50	894.5	924.5	10.78	11.66	11.93	894.5	924.5	1.26	0.99	0.80
894.5	924.5	6.92	6.58	6.40	934.7	964.7	10.01	11.48	12.01	934.7	964.7	1.35	1.09	0.92
934.7	964.7	6.83	6.48	6.30	995.0	1025.0	9.78	12.83	13.79	995.0	1025.0	1.50	1.26	1.09
995.0	1025.0	6.65	6.28	6.12	1035.3	1065.3	11.44	14.88	15.37	1035.3	1065.3	1.48	1.34	1.20
1095.6	1125.6	6.82	6.29	6.03	1095.6	1125.6	11.47	13.84	14.60	1095.6	1125.6	1.28	1.17	1.08
1135.8	1165.8	6.88	6.38	6.09	1135.8	1165.8	7.34	9.27	10.09	1135.8	1165.8	1.13	0.99	0.92
1196.1	1226.1	6.75	6.33	6.08	1196.1	1226.1	5.69	7.05	8.15	1196.1	1226.1	1.17	0.93	0.80
1236.3	1266.3	6.73	6.31	6.06	1236.3	1266.3	5.56	6.64	8.01	1236.3	1266.3	1.16	0.86	0.73
1296.6	1326.6	6.68	6.28	6.05	1296.6	1326.6	5.03	6.18	7.57	1296.6	1326.6	1.25	0.88	0.70
1336.8	1366.8	6.59	6.23	6.03	1336.8	1366.8	4.83	6.00	7.68	1336.8	1366.8	1.34	0.93	0.73
1397.1	1427.1	6.64	6.30	6.10	1397.1	1427.1	4.49	5.82	7.67	1397.1	1427.1	1.35	0.95	0.71
1437.3	1467.3	6.77	6.42	6.20	1437.3	1467.3	4.48	5.84	7.79	1437.3	1467.3	1.23	0.85	0.65
1497.6	1527.6	7.01	6.67	6.44	1497.6	1527.6	3.90	5.53	7.49	1497.6	1527.6	1.18	0.82	0.58
1537.8	1567.8	7.09	6.79	6.59	1537.8	1567.8	4.07	5.90	7.73	1537.8	1567.8	1.18	0.80	0.56
1598.1	1628.1	7.42	7.12	6.92	1598.1	1628.1	4.49	6.50	8.75	1598.1	1628.1	1.15	0.74	0.51
1638.3	1668.3	7.64	7.33	7.11	1638.3	1668.3	5.45	8.16	10.25	1638.3	1668.3	1.03	0.67	0.45
1698.6	1728.6	8.04	7.70	7.50	1698.6	1728.6	7.77	11.04	13.16	1698.6	1728.6	1.00	0.61	0.40
1738.8	1768.8	8.26	7.95	7.81	1738.8	1768.8	10.23	13.11	15.07	1738.8	1768.8	0.93	0.56	0.34
1799.1	1829.1	8.67	8.42	8.33	1799.1	1829.1	11.25	14.56	18.00	1799.1	1829.1	0.87	0.46	0.29
1839.3	1869.3	8.97	8.75	8.70	1839.3	1869.3	11.58	16.23	18.30	1839.3	1869.3	0.74	0.40	0.24
1899.6	1929.6	9.51	9.37	9.37	1899.6	1929.6	11.72	15.90	22.14	1899.6	1929.6	0.63	0.33	0.23
1939.8	1969.8	9.89	9.81	9.85	1939.8	1969.8	13.42	15.08	17.26	1939.8	1969.8	0.54	0.31	0.22
2000.1	2030.1	10.47	10.41	10.47	2000.1	2030.1	13.95	14.28	14.31	2000.1	2030.1	0.54	0.32	0.27



Frequency Mixer

SAM-5

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=750.1MHz (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)=1500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
740.0	10.1	6.90	10.0	20.1	5.80	1000.0	500.1	6.63
721.3	28.8	6.84	30.2	40.3	5.77	979.8	520.3	6.56
702.6	47.5	6.88	50.4	60.5	5.88	959.6	540.5	6.56
683.8	66.3	6.93	70.6	80.7	5.83	939.4	560.7	6.59
665.1	85.0	6.97	90.8	100.9	5.84	919.2	580.9	6.60
646.4	103.7	7.00	111.0	121.1	5.80	899.0	601.1	6.62
627.7	122.4	7.02	131.2	141.3	5.69	878.8	621.3	6.58
609.0	141.1	7.00	151.4	161.5	5.72	858.6	641.5	6.51
590.3	159.8	6.99	171.6	181.7	5.70	838.4	661.7	6.50
571.5	178.6	7.06	191.8	201.9	5.71	818.2	681.9	6.47
552.8	197.3	7.02	212.0	222.1	5.65	798.0	702.1	6.49
534.1	216.0	7.00	232.2	242.3	5.65	777.8	722.3	6.46
515.4	234.7	6.91	252.4	262.5	5.64	757.6	742.5	6.48
496.7	253.4	6.95	272.7	282.8	5.60	737.3	762.8	6.50
477.9	272.2	6.90	292.9	303.0	5.64	717.1	783.0	6.49
459.2	290.9	6.95	313.1	323.2	5.59	696.9	803.2	6.48
440.5	309.6	6.94	333.3	343.4	5.61	676.7	823.4	6.45
421.8	328.3	6.91	353.5	363.6	5.60	656.5	843.6	6.50
403.1	347.0	6.85	373.7	383.8	5.58	636.3	863.8	6.50
384.4	365.7	6.88	393.9	404.0	5.61	616.1	884.0	6.55
365.6	384.5	6.91	434.3	444.4	5.64	575.7	924.4	6.59
346.9	403.2	6.85	454.5	464.6	5.59	555.5	944.6	6.69
328.2	421.9	6.86	494.9	505.0	5.66	515.1	985.0	6.75
309.5	440.6	6.84	515.1	525.2	5.63	494.9	1005.2	6.76
290.8	459.3	6.88	555.5	565.6	5.66	454.5	1045.6	6.72
272.1	478.0	6.84	575.7	585.8	5.73	434.3	1065.8	6.66
253.3	496.8	6.88	616.1	626.2	5.72	393.9	1106.2	6.60
234.6	515.5	6.80	636.3	646.4	5.78	373.7	1126.4	6.55
215.9	534.2	6.86	676.7	686.8	5.88	333.3	1166.8	6.42
197.2	552.9	6.81	696.9	707.0	5.91	313.1	1187.0	6.34
178.5	571.6	6.81	737.3	747.4	6.04	272.7	1227.4	6.22
159.7	590.4	6.76	757.6	767.7	6.06	252.4	1247.7	6.20
141.0	609.1	6.80	798.0	808.1	6.17	212.0	1288.1	6.26
122.3	627.8	6.81	818.2	828.3	6.21	191.8	1308.3	6.26
103.6	646.5	6.80	858.6	868.7	6.31	151.4	1348.7	6.28
84.9	665.2	6.80	878.8	888.9	6.41	131.2	1368.9	6.31
66.2	683.9	6.78	919.2	929.3	6.50	90.8	1409.3	6.36
47.4	702.7	6.80	939.4	949.5	6.54	70.6	1429.5	6.42
28.7	721.4	6.73	979.8	989.9	6.49	30.2	1469.9	6.46
10.0	740.1	6.96	1000.0	1010.1	6.44	10.0	1490.1	6.67

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
5.0	64.0	61.5	60.5	64.0	67.0	70.0
10.1	68.27	69.56	70.49	73.33	76.86	70.13
70.4	58.27	56.50	53.92	62.03	62.82	64.41
130.7	52.38	50.47	48.80	56.00	57.36	58.66
191.0	49.69	47.68	46.32	52.22	53.51	55.07
231.2	48.30	46.16	44.75	50.52	51.91	53.05
291.5	46.47	44.39	43.01	48.47	49.67	50.74
331.7	44.78	43.01	41.47	47.57	48.69	49.79
392.0	42.91	41.36	40.17	45.77	46.82	47.72
432.2	41.59	40.42	39.37	44.75	45.71	46.65
492.5	39.47	38.52	37.59	43.85	44.74	45.49
532.7	38.07	37.44	36.84	43.79	44.84	45.67
593.0	36.63	36.01	35.38	43.40	44.16	44.67
633.2	35.69	35.33	34.76	42.87	43.31	43.40
693.5	34.66	34.66	34.26	41.67	42.67	43.11
733.7	33.94	34.24	34.20	40.55	41.58	42.35
794.0	32.61	32.54	32.43	39.23	40.22	41.18
834.2	31.67	31.55	31.36	38.42	39.59	40.73
894.5	30.61	30.60	30.32	37.86	39.48	41.13
934.7	29.95	30.11	29.91	37.90	39.96	41.95
995.0	28.92	29.38	29.33	37.37	39.60	41.70
1095.6	27.35	28.14	28.76	36.70	38.83	40.84
1135.8	26.40	27.28	28.14	36.69	38.69	40.62
1196.1	25.44	26.05	26.86	36.54	38.30	39.86
1236.3	25.10	25.73	26.42	36.37	37.97	39.34
1296.6	24.80	25.57	26.36	36.30	37.75	39.03
1336.8	24.34	25.30	26.30	35.97	37.38	38.78
1397.1	24.21	25.32	26.46	35.25	36.62	38.01
1437.3	24.40	25.68	26.86	34.50	35.73	37.21
1497.6	24.71	26.35	27.75	33.14	33.94	35.15
1537.8	24.65	26.71	28.33	32.53	33.16	34.00
1598.1	25.14	27.48	29.33	33.01	33.46	33.97
1638.3	25.68	28.22	30.16	33.54	34.01	34.46
1698.6	26.35	29.03	31.09	33.81	34.49	35.04
1738.8	26.59	29.35	31.49	33.47	34.40	35.09
1799.1	27.20	29.84	31.99	33.28	34.31	35.10
1839.3	27.81	30.42	32.56	33.45	34.43	35.12
1899.6	28.57	31.08	33.20	33.48	34.50	35.26
1939.8	29.10	31.59	33.66	33.39	34.48	35.36
2000.1	29.82	32.15	34.10	33.71	34.68	35.51

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	43.29	44.19	38.59
70.4	100.4	36.09	36.04	36.27
130.7	160.7	31.23	31.58	32.09
191.0	221.0	28.87	29.14	29.37
231.2	261.2	27.97	28.43	28.67
291.5	321.5	27.25	27.76	28.07
331.7	361.7	27.22	27.83	28.27
392.0	422.0	27.18	28.16	28.82
432.2	462.2	27.59	28.56	29.43
492.5	522.5	27.94	28.47	28.97
532.7	562.7	28.19	29.05	29.79
593.0	623.0	27.56	28.78	30.13
633.2	663.2	26.86	28.13	29.51
693.5	723.5	24.99	25.43	25.65
733.7	763.7	23.97	23.92	23.65
794.0	824.0	21.92	21.56	21.10
834.2	864.2	21.10	20.69	20.32
894.5	924.5	20.20	19.86	19.63
934.7	964.7	20.11	19.69	19.46
995.0	1025.0	20.11	19.67	19.41
1035.3	1065.3	20.41	19.88	19.65
1095.6	1125.6	20.85	20.21	19.95
1135.8	1165.8	21.26	20.61	20.28
1196.1	1226.1	21.63	20.79	20.33
1236.3	1266.3	21.55	20.79	20.04
1296.6	1326.6	20.92	20.26	19.57
1336.8	1366.8	20.25	19.61	19.05
1397.1	1427.1	18.77	18.24	17.71
1437.3	1467.3	17.77	17.16	16.62
1497.6	1527.6	16.10	15.40	14.90
1537.8	1567.8	15.31	14.46	13.90
1598.1	1628.1	14.03	13.21	12.63
1638.3	1668.3	13.14	12.38	11.91
1698.6	1728.6	12.09	11.42	11.02
1738.8	1768.8	11.43	10.85	10.46
1799.1	1829.1	10.75	10.22	9.89
1839.3	1869.3	10.31	9.83	9.63
1899.6	1929.6	9.85	9.47	9.30
1939.8	1969.8	9.61	9.19	9.13
2000.1	2030.1	9.37	8.96	8.82

Frequency Mixer

SAM-5

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
5.0	35.0	1.86	1.61	1.48
10.1	40.1	1.24	1.08	1.01
70.4	100.4	1.30	1.15	1.06
130.7	160.7	1.32	1.18	1.12
191.0	221.0	1.40	1.26	1.22
231.2	261.2	1.46	1.34	1.28
291.5	321.5	1.56	1.45	1.38
331.7	361.7	1.65	1.53	1.46
392.0	422.0	1.80	1.66	1.57
432.2	462.2	1.93	1.78	1.68
492.5	522.5	2.08	1.91	1.79
532.7	562.7	2.20	2.01	1.89
593.0	623.0	2.36	2.13	1.98
633.2	663.2	2.47	2.23	2.07
693.5	723.5	2.58	2.33	2.16
733.7	763.7	2.69	2.43	2.27
794.0	824.0	2.73	2.48	2.32
834.2	864.2	2.71	2.47	2.31
894.5	924.5	2.68	2.43	2.25
934.7	964.7	2.65	2.36	2.17
995.0	1025.0	2.55	2.20	1.98
1035.3	1065.3	2.53	2.13	1.89
1095.6	1125.6	2.65	2.28	2.03
1135.8	1165.8	2.65	2.35	2.13
1196.1	1226.1	2.44	2.17	1.98
1236.3	1266.3	2.32	2.04	1.84
1296.6	1326.6	2.20	1.91	1.70
1336.8	1366.8	2.11	1.82	1.62
1397.1	1427.1	2.04	1.77	1.58
1437.3	1467.3	1.99	1.73	1.58
1497.6	1527.6	1.97	1.79	1.69
1537.8	1567.8	1.96	1.83	1.80
1598.1	1628.1	2.03	2.00	2.03
1638.3	1668.3	2.12	2.17	2.27
1698.6	1728.6	2.35	2.49	2.67
1738.8	1768.8	2.56	2.77	3.01
1799.1	1829.1	2.92	3.22	3.50
1839.3	1869.3	3.20	3.56	3.81
1899.6	1929.6	3.60	4.01	4.31
1939.8	1969.8	3.91	4.34	4.64
2000.1	2030.1	4.27	4.73	5.02

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.98	2.93	4.03
10.1	1.90	2.52	3.54
70.4	1.89	2.64	3.65
130.7	1.93	2.76	3.83
191.0	1.84	2.56	3.52
231.2	1.91	2.71	3.73
291.5	1.85	2.57	3.50
331.7	1.90	2.67	3.65
392.0	1.87	2.57	3.50
432.2	1.92	2.66	3.60
492.5	1.91	2.60	3.50
532.7	1.96	2.67	3.58
593.0	1.96	2.63	3.50
633.2	2.00	2.68	3.56
693.5	2.00	2.65	3.48
733.7	2.05	2.69	3.52
794.0	2.06	2.69	3.48
834.2	2.10	2.72	3.50
894.5	2.11	2.71	3.47
934.7	2.14	2.72	3.46
995.0	2.15	2.71	3.42
1035.3	2.19	2.72	3.42
1095.6	2.24	2.75	3.42
1135.8	2.27	2.77	3.42
1196.1	2.31	2.81	3.44
1236.3	2.33	2.82	3.43
1296.6	2.35	2.83	3.42
1336.8	2.35	2.81	3.40
1397.1	2.36	2.81	3.38
1437.3	2.35	2.77	3.33
1497.6	2.34	2.75	3.28
1537.8	2.32	2.71	3.23
1598.1	2.31	2.67	3.17
1638.3	2.29	2.63	3.12
1698.6	2.27	2.59	3.06
1738.8	2.26	2.57	3.05
1799.1	2.30	2.59	3.04
1839.3	2.35	2.63	3.06
1899.6	2.43	2.68	3.08
1939.8	2.50	2.73	3.13
2000.1	2.57	2.77	3.13

IF (OUT) (MHz)	IF VSWR @LO=1500.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.37	1.45	1.55
10.0	1.12	1.23	1.30
30.2	1.28	1.30	1.33
50.4	1.25	1.27	1.31
70.6	1.22	1.25	1.29
90.8	1.21	1.25	1.27
111.0	1.21	1.25	1.27
131.2	1.21	1.24	1.26
151.4	1.22	1.24	1.27
171.6	1.23	1.26	1.29
191.8	1.19	1.23	1.25
212.0	1.16	1.20	1.21
232.2	1.18	1.21	1.22
252.4	1.20	1.20	1.22
272.7	1.16	1.16	1.18
292.9	1.14	1.16	1.16
313.1	1.17	1.18	1.17
333.3	1.19	1.17	1.16
353.5	1.16	1.14	1.14
373.7	1.14	1.13	1.15
393.9	1.15	1.12	1.12
434.3	1.13	1.08	1.07
454.5	1.14	1.07	1.08
494.9	1.13	1.05	1.05
515.1	1.14	1.05	1.06
555.5	1.19	1.10	1.08
575.7	1.20	1.12	1.11
616.1	1.26	1.17	1.14
636.3	1.29	1.20	1.18
676.7	1.35	1.26	1.22
696.9	1.40	1.32	1.28
737.3	1.46	1.37	1.32
757.6	1.51	1.41	1.35
798.0	1.58	1.50	1.44
818.2	1.63	1.54	1.47
858.6	1.74	1.64	1.56
878.8	1.78	1.67	1.58
919.2	1.90	1.81	1.71
939.4	1.95	1.85	1.74
979.8	2.07	1.96	1.84
1000.0	2.10	2.01	1.88

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	43	28	34	18	37	40	63	63	55
1	-	16	+0	31	11	40	47	33	40	54	54	66
2	>100	72	54	70	52	62	65	75	56	68	71	>80
3	>100	66	55	63	54	61	53	73	77	66	67	>80
4	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; -14.00 dBm.
 LO IN: 780.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -20.49 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	55	37	45	29	54	49	72	68	66
1	-	16	+0	32	12	39	44	38	49	57	63	67
2	93	74	52	57	47	56	65	67	49	60	75	85
3	>100	50	40	50	38	49	39	72	63	51	54	79
4	>100	>90	69	72	62	76	61	71	75	82	66	83
5	>100	76	74	72	57	61	54	59	54	72	83	67
6	>100	>90	>90	>90	84	82	77	78	74	77	85	>90
7	>100	89	>90	>90	>90	89	75	78	72	72	71	87
8	>100	>90	>90	>90	>90	>90	>90	>90	87	87	86	88
9	>100	>90	>90	>90	>90	>90	>90	>90	86	>90	84	85
10	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; -4.00 dBm.
 LO IN: 780.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -10.48 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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