Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) @LO (dBm)		
		+14	+17	+20
10.1	40.1	8.95	7.69	7.01
35.1	65.1	8.82	7.62	6.97
60.1	90.1	8.99	7.66	7.00
85.1	115.1	8.88	7.63	7.07
110.1	140.1	8.91	7.70	7.08
135.1	165.1	8.88	7.67	7.03
160.1	190.1	8.98	7.64	6.97
185.1	215.1	8.82	7.56	6.98
210.1	240.1	8.83	7.60	7.04
235.1	265.1	8.82	7.53	6.99
260.1	290.1	8.83	7.53	7.03
285.1	315.1	8.62	7.41	6.97
310.1	340.1	8.66	7.49	7.05
340.1	370.1	8.58	7.41	7.01
365.1	395.1	8.57	7.43	7.03
400.1	430.1	8.47	7.46	7.10
415.1	445.1	8.38	7.40	7.05
440.1	470.1	8.44	7.46	7.10
465.1	495.1	8.42	7.46	7.07
490.1	520.1	8.43	7.56	7.21
515.1	545.1	8.35	7.48	7.13
540.1	570.1	8.52	7.63	7.27
565.1	595.1	8.45	7.56	7.17
590.1	620.1	8.60	7.77	7.36
615.1	645.1	8.55	7.74	7.32
640.1	670.1	8.70	7.91	7.47
670.1	700.1	8.64	7.90	7.42
695.1	725.1	8.74	8.02	7.44
720.1	750.1	8.73	8.05	7.52
745.1	775.1	8.74	8.05	7.52
770.1	800.1	8.81	8.15	7.73
795.1	825.1	8.84	8.15	7.73
820.1	850.1	8.91	8.23	7.82
845.1	875.1	8.92	8.18	7.76
870.1	900.1	9.04	8.30	7.93
895.1	925.1	9.11	8.30	7.91
920.1	950.1	9.22	8.38	7.93
945.1	975.1	9.28	8.35	7.85
970.1	1000.1	9.42	8.46	7.89
1000.1	1030.1	9.55	8.56	7.93

RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm) @LO (dBm)		
		+14	+17	+20
10.1	40.1	23.69	27.17	31.74
35.1	65.1	23.88	27.52	30.89
60.1	90.1	23.59	27.20	30.84
85.1	115.1	24.17	27.50	31.47
110.1	140.1	24.42	27.33	30.97
135.1	165.1	23.99	27.39	30.40
160.1	190.1	23.69	27.31	30.97
185.1	215.1	24.22	27.73	30.98
210.1	240.1	24.24	27.18	30.50
235.1	265.1	23.71	26.91	32.66
260.1	290.1	23.97	26.99	33.08
285.1	315.1	25.41	28.33	29.63
310.1	340.1	24.14	26.94	30.11
340.1	370.1	24.86	28.90	28.26
365.1	395.1	24.27	28.04	28.81
400.1	430.1	25.58	28.95	27.98
415.1	445.1	25.97	30.15	28.31
440.1	470.1	26.21	29.70	27.88
465.1	495.1	24.86	28.49	29.80
490.1	520.1	26.65	26.22	29.36
515.1	545.1	26.22	25.59	27.03
540.1	570.1	26.05	25.12	25.16
565.1	595.1	26.43	26.19	25.42
590.1	620.1	25.57	26.69	26.20
615.1	645.1	25.67	26.92	29.51
640.1	670.1	24.96	24.90	30.07
670.1	700.1	25.72	23.33	31.75
695.1	725.1	25.99	23.11	31.51
720.1	750.1	26.46	22.87	28.21
745.1	775.1	27.89	23.39	25.85
770.1	800.1	25.26	23.43	23.64
795.1	825.1	25.58	24.74	25.11
820.1	850.1	23.57	24.86	25.36
845.1	875.1	23.32	26.59	26.76
870.1	900.1	21.71	27.13	28.30
895.1	925.1	20.82	27.82	29.76
920.1	950.1	19.81	28.25	30.11
945.1	975.1	19.00	29.87	31.89
970.1	1000.1	18.13	27.53	34.49
1000.1	1030.1	17.44	24.27	42.32

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB) @LO (dBm)		
		+14	+17	+20
10.1	40.1	-0.17	-0.10	-0.05
35.1	65.1	-0.11	-0.06	0.00
60.1	90.1	-0.14	-0.07	-0.02
85.1	115.1	-0.12	-0.06	-0.02
110.1	140.1	-0.12	-0.08	-0.03
135.1	165.1	-0.12	-0.08	-0.02
160.1	190.1	-0.15	-0.07	-0.01
185.1	215.1	-0.10	-0.06	-0.01
210.1	240.1	-0.13	-0.06	-0.01
235.1	265.1	-0.15	-0.06	-0.01
260.1	290.1	-0.14	-0.05	-0.02
285.1	315.1	-0.09	-0.03	0.00
310.1	340.1	-0.11	-0.04	-0.01
340.1	370.1	-0.07	-0.02	-0.01
365.1	395.1	-0.07	-0.03	-0.01
400.1	430.1	-0.04	-0.03	-0.02
415.1	445.1	-0.01	-0.02	-0.01
440.1	470.1	-0.03	-0.03	-0.01
465.1	495.1	-0.03	-0.03	-0.01
490.1	520.1	-0.02	-0.03	-0.01
515.1	545.1	0.00	-0.02	0.00
540.1	570.1	-0.01	-0.01	0.00
565.1	595.1	-0.02	-0.02	0.00
590.1	620.1	-0.04	-0.04	-0.01
615.1	645.1	-0.04	-0.03	-0.01
640.1	670.1	-0.06	-0.06	-0.02
670.1	700.1	-0.03	-0.05	0.00
695.1	725.1	-0.04	-0.07	-0.01
720.1	750.1	0.00	-0.04	0.00
745.1	775.1	-0.01	-0.05	-0.02
770.1	800.1	0.00	-0.04	-0.02
795.1	825.1	-0.02	-0.06	-0.03
820.1	850.1	-0.03	-0.05	-0.02
845.1	875.1	-0.04	-0.04	-0.01
870.1	900.1	-0.06	-0.04	0.00
895.1	925.1	-0.08	-0.03	0.00
920.1	950.1	-0.11	-0.03	0.00
945.1	975.1	-0.15	-0.03	0.00
970.1	1000.1	-0.17	-0.03	0.00
1000.1	1030.1	-0.18	-0.02	0.00

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=250MHz (dB)
		@LO (dBm)
		+17
239.9	10.1	7.70
229.9	20.1	7.59
219.9	30.1	7.64
209.9	40.1	7.67
194.9	55.1	7.75
184.9	65.1	7.75
174.9	75.1	7.74
159.9	90.1	7.66
149.9	100.1	7.62
139.9	110.1	7.58
119.9	130.1	7.57
109.9	140.1	7.63
99.9	150.1	7.59
89.9	160.1	7.65
74.9	175.1	7.62
64.9	185.1	7.54
54.9	195.1	7.36
39.9	210.1	7.45
29.9	220.1	7.47
19.9	230.1	7.52
10.1	260.1	7.58
20.1	270.1	7.59
30.1	280.1	7.57
40.1	290.1	7.51
55.1	305.1	7.31
65.1	315.1	7.45
75.1	325.1	7.43
85.1	335.1	7.51
100.1	350.1	7.55
110.1	360.1	7.66
120.1	370.1	7.63
130.1	380.1	7.63
145.1	395.1	7.64
155.1	405.1	7.61
165.1	415.1	7.63
175.1	425.1	7.68
190.1	440.1	7.70
200.1	450.1	7.73
210.1	460.1	7.75
220.1	470.1	7.76

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=100MHz (dB)
		@LO (dBm)
		+17
10.1	110.1	7.70
15.1	115.1	7.75
20.1	120.1	7.78
30.1	130.1	7.75
35.1	135.1	7.73
45.1	145.1	7.72
50.1	150.1	7.68
60.1	160.1	7.70
65.1	165.1	7.70
70.1	170.1	7.69
80.1	180.1	7.65
85.1	185.1	7.63
95.1	195.1	7.64
105.1	205.1	7.79
115.1	215.1	7.73
120.1	220.1	7.74
125.1	225.1	7.78
135.1	235.1	7.80
140.1	240.1	7.79
150.1	250.1	7.74
155.1	255.1	7.74
165.1	265.1	7.77
170.1	270.1	7.74
180.1	280.1	7.72
185.1	285.1	7.76
190.1	290.1	7.79
200.1	300.1	7.80
205.1	305.1	7.79
215.1	315.1	7.84
220.1	320.1	7.90
230.1	330.1	7.89
235.1	335.1	7.88
240.1	340.1	7.89
250.1	350.1	7.89
255.1	355.1	7.89
265.1	365.1	7.90
270.1	370.1	7.90
280.1	380.1	7.92
285.1	385.1	7.91
295.1	395.1	7.92

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=400MHz (dB)
		@LO (dBm)
		+17
389.9	10.1	7.86
384.9	15.1	7.73
374.9	25.1	7.74
364.9	35.1	7.80
354.9	45.1	7.71
344.9	55.1	7.64
334.9	65.1	7.61
324.9	75.1	7.58
314.9	85.1	7.51
304.9	95.1	7.62
294.9	105.1	7.64
284.9	115.1	7.60
274.9	125.1	7.64
264.9	135.1	7.63
254.9	145.1	7.51
244.9	155.1	7.48
234.9	165.1	7.44
224.9	175.1	7.37
214.9	185.1	7.37
204.9	195.1	7.40
194.9	205.1	7.41
184.9	215.1	7.42
174.9	225.1	7.40
164.9	235.1	7.37
154.9	245.1	7.32
144.9	255.1	7.27
134.9	265.1	7.28
124.9	275.1	7.21
114.9	285.1	7.23
104.9	295.1	7.30
94.9	305.1	7.26
84.9	315.1	7.25
74.9	325.1	7.35
64.9	335.1	7.33
54.9	345.1	7.28
44.9	355.1	7.29
34.9	365.1	7.28
24.9	375.1	7.28
14.9	385.1	7.34
4.9	395.1	7.33

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
40.1	65.07	67.46	68.98	63.99	67.68	72.86
65.1	60.74	63.03	64.78	60.05	63.83	69.59
100.1	56.99	59.20	61.15	56.49	60.32	66.26
115.1	55.76	57.97	60.02	55.24	59.10	65.04
140.1	53.90	56.19	57.93	53.41	57.23	63.11
165.1	52.54	54.74	56.28	52.20	56.04	61.31
190.1	51.25	53.25	54.68	51.34	55.31	60.20
215.1	50.09	52.02	54.25	50.13	54.12	58.95
240.1	49.01	50.96	53.31	49.08	52.88	57.38
265.1	48.03	50.01	52.55	48.58	52.20	55.87
290.1	47.19	49.18	51.77	47.94	51.58	54.45
315.1	46.21	48.46	51.02	47.18	50.88	53.45
340.1	45.49	47.86	50.02	46.40	50.02	52.21
370.1	44.61	47.20	49.75	45.92	49.11	51.34
400.1	43.87	46.51	49.68	45.46	48.38	51.06
420.1	43.37	46.07	49.18	45.11	48.07	50.40
445.1	42.85	45.58	47.52	44.68	47.52	48.65
470.1	42.25	44.83	45.64	44.49	46.93	47.17
495.1	42.01	44.46	45.65	44.07	46.18	47.14
520.1	41.72	44.13	46.22	43.37	45.41	47.97
545.1	41.47	44.00	45.70	42.92	44.89	46.85
570.1	41.16	43.75	44.77	42.75	44.50	45.03
595.1	40.84	43.50	42.87	42.76	44.40	42.70
620.1	40.51	43.23	43.50	42.64	44.05	43.56
645.1	40.12	42.99	43.74	42.82	43.81	44.08
670.1	39.75	42.56	44.19	43.08	43.67	45.17
700.1	39.27	42.01	42.98	43.65	44.09	44.52
725.1	38.99	41.68	40.75	43.93	44.53	44.43
750.1	38.55	41.25	40.21	44.23	45.03	44.35
775.1	38.17	40.90	40.61	44.04	45.12	43.79
800.1	37.65	40.30	41.29	43.62	45.31	44.70
825.1	37.18	39.92	40.58	43.03	45.47	43.76
850.1	36.62	39.33	39.81	41.99	45.53	42.11
875.1	36.21	38.90	40.10	40.63	44.91	41.31
900.1	35.79	38.44	41.65	39.53	44.25	41.84
925.1	35.27	37.84	41.43	38.22	43.62	43.27
950.1	34.84	37.28	40.78	37.05	43.27	43.24
975.1	34.45	36.79	39.56	35.94	42.51	42.75
1000.1	34.17	36.36	40.81	35.13	42.09	41.26
1030.1	33.94	36.14	45.03	34.54	41.38	40.60

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+14	+17	+20
10.1	40.1	54.33	54.53	38.27
35.1	65.1	43.82	43.79	37.82
60.1	90.1	39.24	39.45	36.50
85.1	115.1	36.56	36.72	36.40
110.1	140.1	34.48	34.70	34.18
135.1	165.1	32.84	33.16	32.62
160.1	190.1	31.51	31.91	29.77
185.1	215.1	30.68	31.05	30.03
210.1	240.1	29.72	30.12	29.87
235.1	265.1	28.96	29.42	29.38
260.1	290.1	28.40	28.80	28.53
285.1	315.1	28.03	28.39	27.61
310.1	340.1	27.52	27.90	27.38
340.1	370.1	27.03	27.56	27.88
365.1	395.1	26.88	27.48	27.81
400.1	430.1	26.40	27.13	27.52
415.1	445.1	26.27	27.21	27.67
440.1	470.1	25.94	27.11	27.66
465.1	495.1	25.93	27.05	28.22
490.1	520.1	25.86	26.52	27.62
515.1	545.1	25.59	26.23	27.41
540.1	570.1	25.48	26.25	27.42
565.1	595.1	25.70	26.61	27.81
590.1	620.1	25.87	26.72	27.70
615.1	645.1	25.85	26.64	27.64
640.1	670.1	26.00	26.73	27.43
670.1	700.1	26.25	26.93	28.31
695.1	725.1	26.26	27.05	28.97
720.1	750.1	25.71	26.59	28.38
745.1	775.1	25.38	26.34	27.29
770.1	800.1	24.73	25.55	26.44
795.1	825.1	23.96	24.60	25.71
820.1	850.1	23.03	23.40	24.49
845.1	875.1	22.56	22.74	23.50
870.1	900.1	21.99	21.95	22.22
895.1	925.1	21.48	21.34	21.51
920.1	950.1	20.93	20.70	20.74
945.1	975.1	20.71	20.43	20.43
970.1	1000.1	20.34	20.00	19.69
1000.1	1030.1	19.95	19.55	18.67

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+14	+17	+20
10.1	40.1	1.13	1.20	1.33
35.1	65.1	1.04	1.17	1.31
60.1	90.1	1.03	1.17	1.30
85.1	115.1	1.05	1.19	1.31
110.1	140.1	1.06	1.18	1.30
135.1	165.1	1.06	1.18	1.31
160.1	190.1	1.06	1.19	1.35
185.1	215.1	1.07	1.20	1.34
210.1	240.1	1.08	1.20	1.33
235.1	265.1	1.10	1.22	1.35
260.1	290.1	1.10	1.22	1.34
285.1	315.1	1.12	1.24	1.39
310.1	340.1	1.13	1.24	1.38
340.1	370.1	1.14	1.26	1.39
365.1	395.1	1.18	1.28	1.39
400.1	430.1	1.18	1.28	1.40
415.1	445.1	1.22	1.32	1.44
440.1	470.1	1.20	1.29	1.41
465.1	495.1	1.24	1.33	1.45
490.1	520.1	1.25	1.31	1.40
515.1	545.1	1.26	1.34	1.43
540.1	570.1	1.29	1.35	1.43
565.1	595.1	1.28	1.35	1.44
590.1	620.1	1.32	1.37	1.45
615.1	645.1	1.31	1.36	1.43
640.1	670.1	1.33	1.38	1.45
670.1	700.1	1.36	1.39	1.46
695.1	725.1	1.37	1.41	1.50
720.1	750.1	1.39	1.42	1.50
745.1	775.1	1.40	1.44	1.50
770.1	800.1	1.43	1.46	1.51
795.1	825.1	1.44	1.47	1.51
820.1	850.1	1.43	1.47	1.52
845.1	875.1	1.48	1.51	1.56
870.1	900.1	1.46	1.49	1.54
895.1	925.1	1.53	1.55	1.60
920.1	950.1	1.48	1.48	1.54
945.1	975.1	1.55	1.56	1.63
970.1	1000.1	1.54	1.52	1.59
1000.1	1030.1	1.58	1.57	1.65

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+14	+17	+20
40.1	1.20	1.16	1.54
65.1	1.19	1.15	1.51
100.1	1.20	1.16	1.54
115.1	1.20	1.16	1.54
140.1	1.19	1.15	1.51
165.1	1.20	1.15	1.51
190.1	1.21	1.16	1.53
215.1	1.20	1.15	1.52
240.1	1.19	1.15	1.51
265.1	1.19	1.16	1.52
290.1	1.20	1.16	1.54
315.1	1.20	1.16	1.53
340.1	1.19	1.16	1.52
370.1	1.19	1.17	1.54
400.1	1.19	1.19	1.55
420.1	1.18	1.19	1.54
445.1	1.18	1.19	1.54
470.1	1.19	1.21	1.56
495.1	1.19	1.22	1.58
520.1	1.18	1.23	1.58
545.1	1.18	1.24	1.58
570.1	1.19	1.25	1.59
595.1	1.19	1.27	1.61
620.1	1.19	1.28	1.61
645.1	1.19	1.29	1.61
670.1	1.20	1.30	1.63
700.1	1.20	1.32	1.65
725.1	1.20	1.33	1.65
750.1	1.22	1.34	1.65
775.1	1.23	1.35	1.67
800.1	1.23	1.37	1.69
825.1	1.25	1.38	1.69
850.1	1.26	1.39	1.69
875.1	1.27	1.40	1.71
900.1	1.28	1.42	1.71
925.1	1.29	1.43	1.71
950.1	1.30	1.45	1.71
975.1	1.32	1.47	1.73
1000.1	1.33	1.49	1.74
1030.1	1.34	1.51	1.75

IF (OUT) (MHz)	IF VSWR @LO=400MHz (:1) @LO (dBm)		
	+14	+17	+20
0.3	1.85	1.40	1.21
0.5	1.84	1.39	1.21
0.7	1.84	1.39	1.21
1.1	1.85	1.40	1.22
3.1	1.84	1.39	1.21
5.1	1.84	1.39	1.21
8.1	1.84	1.39	1.21
10.1	1.84	1.39	1.21
25.1	1.87	1.42	1.23
35.1	1.87	1.42	1.23
45.1	1.85	1.40	1.22
60.1	1.85	1.40	1.21
70.1	1.87	1.42	1.23
85.1	1.89	1.44	1.25
95.1	1.89	1.43	1.24
105.1	1.87	1.42	1.23
120.1	1.86	1.41	1.22
130.1	1.89	1.43	1.24
140.1	1.91	1.45	1.26
155.1	1.91	1.45	1.25
165.1	1.90	1.44	1.24
180.1	1.92	1.45	1.26
190.1	1.94	1.48	1.28
200.1	1.94	1.48	1.28
215.1	1.93	1.47	1.27
225.1	1.92	1.46	1.26
240.1	1.95	1.48	1.28
250.1	1.98	1.51	1.30
260.1	1.99	1.52	1.31
275.1	1.98	1.51	1.30
285.1	1.98	1.51	1.30
295.1	2.00	1.52	1.31
310.1	2.02	1.54	1.33
320.1	2.02	1.54	1.33
335.1	2.02	1.54	1.32
345.1	2.03	1.55	1.32
355.1	2.06	1.57	1.35
370.1	2.11	1.61	1.38
380.1	2.11	1.61	1.38
395.1	2.07	1.58	1.36

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	---	---	27.49	41.74	27.78	40.01	34.07	41.18	40.46	52.13	38.16	55.56
1	---	21.60	---	37.25	19.77	39.56	25.00	43.16	23.90	41.23	23.26	43.06
2	98.24	72.28	68.47	64.15	63.21	64.28	67.61	69.44	70.72	74.96	57.40	89.47
3	123.09	65.10	61.87	73.08	47.72	65.99	45.23	62.04	45.57	63.58	47.45	69.97
4	122.70	86.94	76.98	81.70	74.74	91.22	81.91	86.51	82.93	88.29	78.08	84.27
5	121.81	91.93	75.50	87.24	69.62	81.30	69.44	90.00	83.23	95.43	76.55	99.07
6	122.57	102.31	100.68	98.70	97.95	87.90	107.14	84.50	96.07	96.27	98.83	100.16
7	120.81	103.45	96.74	107.44	95.22	109.74	89.75	95.91	89.88	93.28	86.15	107.34
8	121.02	112.03	111.63	117.96	110.95	108.20	111.37	91.25	90.60	92.39	92.36	106.22
9	120.51	115.60	114.55	117.42	117.93	115.51	113.55	118.40	96.99	112.25	94.56	114.97
10	122.69	118.58	120.00	114.28	121.41	121.50	111.16	111.42	103.22	92.82	97.43	93.50
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250 MHz; 0 dBm.
LO IN: 280 MHz; +17.00 dBm
IF OUT: 30 MHz; -7.60 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	---	---	37.73	50.95	40.07	51.63	54.89	61.45	52.59	58.97	52.54	73.68
1	---	21.87	---	40.95	17.71	53.15	34.93	59.57	38.13	63.06	43.99	60.07
2	87.96	68.53	74.29	65.18	62.91	70.54	57.10	68.29	59.19	64.57	61.78	76.71
3	105.58	48.25	47.90	51.50	46.24	63.24	36.08	53.64	35.51	57.34	37.83	57.04
4	106.97	74.06	73.94	70.38	74.22	76.93	76.34	80.41	83.82	77.60	77.34	72.48
5	105.25	73.84	56.89	68.53	49.21	68.64	46.91	61.06	46.74	58.05	45.67	58.69
6	105.35	97.55	102.15	93.37	89.41	89.93	86.34	83.28	81.54	86.44	79.18	104.68
7	107.46	74.38	65.58	78.56	67.17	74.44	64.01	73.78	70.02	73.47	65.66	68.79
8	103.10	86.65	85.05	89.77	84.50	94.96	81.52	89.37	84.75	87.02	83.57	88.96
9	104.37	78.69	69.91	79.25	66.65	93.04	67.58	90.08	72.65	92.85	77.24	77.75
10	105.25	108.70	90.96	110.16	88.92	101.47	87.31	112.00	87.30	88.56	86.94	94.03
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250 MHz; 10 dBm.
LO IN: 280 MHz; +17.00 dBm
IF OUT: 30 MHz; 2.39 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.