Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=160MHz (dB) @LO (dBm)		
		+14	+17	+20
510.1	350.1	13.87	11.63	9.88
610.1	450.1	8.45	7.31	6.79
710.1	550.1	6.42	6.25	6.17
810.1	650.1	8.12	8.21	7.76
910.1	750.1	7.23	6.79	6.54
1010.1	850.1	7.65	7.03	6.64
1110.1	950.1	8.29	7.58	7.23
1210.1	1050.1	8.56	7.87	7.48
1310.1	1150.1	8.73	7.90	7.40
1410.1	1250.1	8.55	7.73	7.26
1510.1	1350.1	8.44	7.69	7.23
1610.1	1450.1	8.32	7.68	7.29
1710.1	1550.1	8.35	7.71	7.36
1810.1	1650.1	8.37	7.86	7.62
1910.1	1750.1	8.72	8.39	8.24
2010.1	1850.1	9.38	9.18	9.12
2090.1	1930.1	8.32	7.77	7.44
2190.1	2030.1	8.01	7.78	7.72
2270.1	2110.1	7.98	7.78	7.74
2370.1	2210.1	7.91	7.78	7.82
2450.1	2290.1	7.95	7.85	7.91
2550.1	2390.1	7.90	7.88	8.02
2630.1	2470.1	7.79	7.75	7.87
2730.1	2570.1	7.73	7.70	7.81
2810.1	2650.1	7.76	7.67	7.71
2910.1	2750.1	7.81	7.66	7.65
2990.1	2830.1	7.89	7.65	7.57
3090.1	2930.1	7.92	7.68	7.62
3170.1	3010.1	7.97	7.74	7.67
3270.1	3110.1	8.14	7.85	7.73
3350.1	3190.1	8.27	7.97	7.87
3450.1	3290.1	8.50	8.20	8.06
3530.1	3370.1	8.89	8.52	8.30
3630.1	3470.1	9.28	8.88	8.66
3710.1	3550.1	9.71	9.28	9.13
3810.1	3650.1	10.24	9.66	9.41
3890.1	3730.1	10.77	10.09	9.77
3990.1	3830.1	11.43	10.61	10.19
4070.1	3910.1	11.98	11.08	10.59
4170.1	4010.1	12.66	11.67	11.11

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+14	+17	+20
510.1	350.1	15.20	15.39	16.81
610.1	450.1	15.33	16.70	18.79
710.1	550.1	20.69	23.09	25.48
810.1	650.1	21.52	30.56	23.79
910.1	750.1	25.94	26.32	29.12
1010.1	850.1	22.15	24.96	27.71
1110.1	950.1	22.43	21.31	22.58
1210.1	1050.1	21.61	21.34	20.68
1310.1	1150.1	19.12	19.94	22.90
1410.1	1250.1	20.98	23.58	26.89
1510.1	1350.1	20.69	23.68	28.00
1610.1	1450.1	22.27	24.93	27.75
1710.1	1550.1	24.69	28.06	31.97
1810.1	1650.1	26.11	29.21	40.22
1910.1	1750.1	22.75	25.79	28.44
2010.1	1850.1	21.14	23.36	26.40
2090.1	1930.1	23.03	25.56	28.08
2190.1	2030.1	26.59	31.35	29.53
2270.1	2110.1	24.89	27.57	31.53
2370.1	2210.1	25.59	30.24	34.28
2450.1	2290.1	25.88	31.11	35.80
2550.1	2390.1	25.98	32.13	36.03
2630.1	2470.1	25.55	32.06	36.39
2730.1	2570.1	25.37	31.57	37.95
2810.1	2650.1	24.42	29.56	36.39
2910.1	2750.1	23.75	27.71	33.29
2990.1	2830.1	23.33	27.47	33.50
3090.1	2930.1	23.13	27.02	32.40
3170.1	3010.1	22.96	26.30	32.31
3270.1	3110.1	22.87	26.18	32.20
3350.1	3190.1	22.92	25.78	31.11
3450.1	3290.1	22.67	25.01	29.24
3530.1	3370.1	22.70	24.87	28.48
3630.1	3470.1	24.57	26.09	28.61
3710.1	3550.1	23.42	26.91	33.15
3810.1	3650.1	22.33	26.72	32.26
3890.1	3730.1	22.27	26.81	32.77
3990.1	3830.1	22.11	27.01	32.21
4070.1	3910.1	21.76	26.32	31.58
4170.1	4010.1	22.43	27.06	33.24

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB) @LO (dBm)		
		+14	+17	+20
510.1	350.1	5.91	5.34	4.44
610.1	450.1	7.00	5.71	3.93
710.1	550.1	1.80	1.09	0.61
810.1	650.1	0.22	0.07	0.43
910.1	750.1	1.29	0.75	0.47
1010.1	850.1	2.21	1.46	0.81
1110.1	950.1	2.41	1.72	1.12
1210.1	1050.1	5.26	4.25	3.36
1310.1	1150.1	5.21	3.84	2.50
1410.1	1250.1	2.66	1.83	1.01
1510.1	1350.1	1.96	1.24	0.72
1610.1	1450.1	1.06	0.64	0.32
1710.1	1550.1	0.99	0.51	0.23
1810.1	1650.1	0.99	0.48	0.19
1910.1	1750.1	0.71	0.46	0.33
2010.1	1850.1	0.62	0.34	0.30
2090.1	1930.1	1.20	0.74	0.39
2190.1	2030.1	0.81	0.43	0.30
2270.1	2110.1	0.77	0.48	0.30
2370.1	2210.1	0.75	0.43	0.23
2450.1	2290.1	0.79	0.45	0.22
2550.1	2390.1	0.78	0.39	0.19
2630.1	2470.1	0.74	0.36	0.18
2730.1	2570.1	0.66	0.33	0.17
2810.1	2650.1	0.69	0.37	0.18
2910.1	2750.1	0.75	0.43	0.23
2990.1	2830.1	0.78	0.44	0.25
3090.1	2930.1	0.81	0.42	0.20
3170.1	3010.1	0.83	0.45	0.19
3270.1	3110.1	0.77	0.48	0.24
3350.1	3190.1	0.70	0.45	0.21
3450.1	3290.1	0.65	0.42	0.20
3530.1	3370.1	0.54	0.38	0.18
3630.1	3470.1	0.51	0.35	0.18
3710.1	3550.1	0.58	0.47	0.24
3810.1	3650.1	0.48	0.48	0.26
3890.1	3730.1	0.36	0.44	0.25
3990.1	3830.1	0.22	0.38	0.26
4070.1	3910.1	0.11	0.34	0.23
4170.1	4010.1	0.06	0.34	0.26

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2860.1001MHz (dB) @LO (dBm) +17
2190.0	670.1	11.42
2071.5	788.6	10.65
1953.0	907.1	10.47
1834.6	1025.5	9.99
1716.1	1144.0	9.67
1597.6	1262.5	8.83
1479.1	1381.0	8.60
1360.7	1499.4	8.35
1242.2	1617.9	8.91
1123.7	1736.4	9.52
1005.2	1854.9	10.26
886.7	1973.4	9.19
768.3	2091.8	8.58
649.8	2210.3	8.30
531.3	2328.8	8.25
412.8	2447.3	8.07
294.3	2565.8	7.84
175.9	2684.2	7.72
57.4	2802.7	7.53
42.6	2902.7	7.49
107.8	2967.9	7.49
189.3	3049.4	7.59
254.6	3114.7	7.71
336.1	3196.2	8.05
401.3	3261.4	8.27
482.8	3342.9	8.47
548.0	3408.1	8.64
629.6	3489.7	8.67
694.8	3554.9	8.78
776.3	3636.4	8.79
841.5	3701.6	8.83
923.0	3783.1	8.90
988.3	3848.4	8.90
1069.8	3929.9	8.93
1135.0	3995.1	8.97
1216.5	4076.6	9.20
1281.7	4141.8	9.22
1363.3	4223.4	9.23
1428.5	4288.6	9.23
1510.0	4370.1	9.57

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2230.1001MHz (dB) @LO (dBm) +17
10.0	2240.1	7.93
50.0	2280.1	7.66
90.0	2320.1	7.67
130.0	2360.1	7.71
170.0	2400.1	7.68
210.0	2440.1	7.71
250.0	2480.1	7.72
310.0	2540.1	7.80
350.0	2580.1	7.82
410.0	2640.1	8.02
450.0	2680.1	8.07
510.0	2740.1	8.25
550.0	2780.1	8.33
610.0	2840.1	8.45
650.0	2880.1	8.52
710.0	2940.1	8.63
750.0	2980.1	8.64
810.0	3040.1	8.72
850.0	3080.1	8.72
910.0	3140.1	8.72
950.0	3180.1	8.73
1010.0	3240.1	8.68
1050.0	3280.1	8.69
1110.0	3340.1	8.53
1150.0	3380.1	8.61
1210.0	3440.1	8.55
1250.0	3480.1	8.68
1310.0	3540.1	8.68
1350.0	3580.1	8.83
1410.0	3640.1	8.77
1450.0	3680.1	8.92
1510.0	3740.1	8.94
1550.0	3780.1	9.04
1610.0	3840.1	9.13
1650.0	3880.1	9.29
1710.0	3940.1	9.43
1750.0	3980.1	9.72
1810.0	4040.1	10.04
1850.0	4080.1	10.30
1910.0	4140.1	10.71

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3490.1001MHz (dB) @LO (dBm) +17
2070.0	1420.1	11.43
2010.0	1480.1	10.85
1950.0	1540.1	10.41
1890.0	1600.1	10.14
1830.0	1660.1	9.94
1770.0	1720.1	10.05
1710.0	1780.1	10.38
1650.0	1840.1	10.55
1590.0	1900.1	9.80
1530.0	1960.1	9.59
1470.0	2020.1	9.79
1410.0	2080.1	9.58
1370.0	2120.1	9.40
1310.0	2180.1	9.32
1270.0	2220.1	9.26
1210.0	2280.1	9.37
1170.0	2320.1	9.30
1110.0	2380.1	9.15
1070.0	2420.1	9.17
1010.0	2480.1	9.23
970.0	2520.1	9.26
910.0	2580.1	9.27
870.0	2620.1	9.34
810.0	2680.1	9.34
770.0	2720.1	9.37
710.0	2780.1	9.37
670.0	2820.1	9.40
610.0	2880.1	9.29
570.0	2920.1	9.31
510.0	2980.1	9.17
470.0	3020.1	9.12
410.0	3080.1	8.97
370.0	3120.1	8.88
310.0	3180.1	8.69
270.0	3220.1	8.60
210.0	3280.1	8.51
170.0	3320.1	8.41
110.0	3380.1	8.32
70.0	3420.1	8.29
10.0	3480.1	8.55

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
350.1	58.94	56.82	54.97	42.21	42.47	42.97
450.1	45.32	45.30	46.21	34.65	35.07	35.56
550.1	34.88	35.55	36.03	26.89	26.98	27.09
650.1	29.65	29.54	29.70	24.97	25.83	26.59
750.1	32.71	32.70	32.54	28.55	29.40	30.21
850.1	34.32	34.68	34.71	30.84	31.34	31.90
950.1	33.96	33.54	33.06	32.62	33.53	34.71
1050.1	34.94	34.36	33.62	32.40	32.87	33.47
1150.1	35.79	34.47	33.59	32.50	32.82	33.43
1250.1	41.95	40.09	39.20	34.60	35.12	35.69
1350.1	53.52	46.90	43.30	34.22	35.31	36.48
1450.1	38.61	37.89	36.69	32.63	34.14	35.56
1550.1	35.26	34.60	33.82	31.77	33.39	34.99
1650.1	32.31	31.54	30.79	31.18	32.66	34.13
1750.1	29.15	27.94	27.02	30.96	31.58	32.03
1850.1	29.56	29.22	28.56	27.09	27.39	27.42
1930.1	32.59	34.13	35.32	24.40	24.95	25.40
2030.1	36.40	37.43	37.16	26.21	27.39	28.55
2110.1	40.10	38.55	37.32	27.82	29.27	30.64
2210.1	42.24	40.41	38.77	30.53	32.58	34.53
2290.1	41.05	40.17	39.12	33.27	36.32	40.07
2390.1	37.37	36.39	36.07	39.65	41.96	41.41
2470.1	35.74	34.83	34.61	38.07	35.54	34.04
2570.1	37.78	37.51	37.57	30.89	29.76	28.84
2650.1	45.97	46.38	47.32	28.65	27.84	27.16
2750.1	42.93	42.73	42.56	27.47	26.84	26.25
2830.1	39.16	38.87	38.80	27.10	26.37	26.18
2930.1	36.63	36.12	35.39	26.39	25.97	25.86
3010.1	35.42	35.37	34.64	25.23	25.18	24.92
3110.1	33.37	33.40	32.78	24.48	24.60	24.51
3190.1	32.34	32.46	32.07	24.46	24.74	24.79
3290.1	32.21	32.58	32.41	24.88	25.45	25.71
3370.1	31.97	32.23	32.04	25.76	26.41	26.75
3470.1	30.92	31.03	30.78	27.91	29.03	29.68
3550.1	29.71	29.64	29.81	29.84	31.35	32.74
3650.1	30.49	30.27	30.36	31.46	33.48	35.60
3730.1	30.96	30.68	30.54	33.76	36.53	39.72
3830.1	31.83	31.47	31.40	37.34	41.70	47.19
3910.1	32.62	32.25	31.94	39.83	44.01	44.82
4010.1	33.52	33.03	32.71	39.54	40.71	40.08

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+14	+17	+20
510.1	350.1	26.96	23.34	22.41
610.1	450.1	20.81	20.80	21.28
710.1	550.1	20.23	20.70	21.32
810.1	650.1	20.62	22.37	25.90
910.1	750.1	21.23	22.17	22.96
1010.1	850.1	20.34	21.95	23.16
1110.1	950.1	18.59	20.84	22.92
1210.1	1050.1	18.39	18.74	19.40
1310.1	1150.1	19.14	18.43	18.02
1410.1	1250.1	20.28	20.33	20.23
1510.1	1350.1	20.05	20.97	21.78
1610.1	1450.1	20.87	21.11	21.36
1710.1	1550.1	20.47	20.08	19.84
1810.1	1650.1	19.10	18.28	17.94
1910.1	1750.1	17.07	15.82	15.10
2010.1	1850.1	18.57	17.13	16.10
2090.1	1930.1	22.84	22.52	22.08
2190.1	2030.1	23.79	23.75	23.42
2270.1	2110.1	24.25	24.02	23.52
2370.1	2210.1	24.11	24.04	23.96
2450.1	2290.1	25.89	26.02	26.24
2550.1	2390.1	32.53	33.98	35.27
2630.1	2470.1	42.08	41.63	39.04
2730.1	2570.1	37.28	34.69	32.75
2810.1	2650.1	33.31	31.43	30.01
2910.1	2750.1	30.40	28.80	27.42
2990.1	2830.1	32.77	31.53	30.35
3090.1	2930.1	37.15	41.81	46.40
3170.1	3010.1	31.51	33.01	34.46
3270.1	3110.1	30.10	30.71	30.67
3350.1	3190.1	31.22	31.82	31.74
3450.1	3290.1	32.12	31.89	31.48
3530.1	3370.1	32.07	30.55	29.65
3630.1	3470.1	31.59	29.45	27.94
3710.1	3550.1	28.67	27.14	26.22
3810.1	3650.1	27.43	26.72	26.01
3890.1	3730.1	26.84	26.84	26.54
3990.1	3830.1	26.17	26.98	27.36
4070.1	3910.1	25.60	26.61	27.20
4170.1	4010.1	24.54	25.39	25.92

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+14	+17	+20
510.1	350.1	4.56	3.90	3.35
610.1	450.1	2.12	1.86	1.75
710.1	550.1	1.24	1.27	1.32
810.1	650.1	1.19	1.51	1.83
910.1	750.1	1.37	1.42	1.54
1010.1	850.1	1.74	1.70	1.71
1110.1	950.1	2.01	1.88	1.88
1210.1	1050.1	2.32	2.08	2.00
1310.1	1150.1	2.58	2.34	2.23
1410.1	1250.1	2.75	2.43	2.26
1510.1	1350.1	2.77	2.43	2.23
1610.1	1450.1	2.63	2.36	2.18
1710.1	1550.1	2.58	2.31	2.13
1810.1	1650.1	2.38	2.17	2.04
1910.1	1750.1	2.14	1.94	1.81
2010.1	1850.1	2.02	1.76	1.60
2090.1	1930.1	2.33	2.07	1.88
2190.1	2030.1	2.06	1.76	1.56
2270.1	2110.1	1.76	1.53	1.42
2370.1	2210.1	1.52	1.36	1.30
2450.1	2290.1	1.45	1.30	1.26
2550.1	2390.1	1.38	1.22	1.19
2630.1	2470.1	1.32	1.17	1.17
2730.1	2570.1	1.27	1.12	1.13
2810.1	2650.1	1.26	1.11	1.11
2910.1	2750.1	1.28	1.15	1.14
2990.1	2830.1	1.28	1.19	1.21
3090.1	2930.1	1.32	1.29	1.34
3170.1	3010.1	1.36	1.37	1.45
3270.1	3110.1	1.48	1.51	1.59
3350.1	3190.1	1.56	1.60	1.69
3450.1	3290.1	1.76	1.79	1.86
3530.1	3370.1	1.87	1.88	1.92
3630.1	3470.1	2.14	2.14	2.18
3710.1	3550.1	2.35	2.33	2.36
3810.1	3650.1	2.67	2.61	2.62
3890.1	3730.1	3.05	2.95	2.91
3990.1	3830.1	3.49	3.34	3.28
4070.1	3910.1	4.09	3.90	3.78
4170.1	4010.1	4.69	4.43	4.28

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+14	+17	+20
350.1	54.29	54.29	52.65
450.1	20.70	20.22	19.76
550.1	3.48	3.40	3.33
650.1	2.73	2.78	2.88
750.1	8.08	8.35	8.51
850.1	13.81	14.26	14.50
950.1	19.11	19.32	19.32
1050.1	23.18	23.81	23.81
1150.1	26.74	27.16	26.74
1250.1	29.96	29.46	28.49
1350.1	31.03	30.49	29.46
1450.1	27.59	27.59	27.16
1550.1	22.87	22.87	22.29
1650.1	16.72	16.41	16.11
1750.1	10.62	9.96	9.38
1850.1	8.16	7.83	7.63
1930.1	9.33	9.04	8.72
2030.1	8.01	7.70	7.41
2110.1	7.02	6.76	6.49
2210.1	5.75	5.47	5.25
2290.1	4.74	4.51	4.29
2390.1	3.97	3.82	3.66
2470.1	3.51	3.40	3.29
2570.1	3.25	3.17	3.10
2650.1	3.13	3.07	3.00
2750.1	3.15	3.13	3.09
2830.1	3.20	3.19	3.16
2930.1	3.35	3.36	3.36
3010.1	3.48	3.49	3.48
3110.1	3.71	3.73	3.74
3190.1	3.98	4.01	4.02
3290.1	4.32	4.35	4.34
3370.1	4.72	4.75	4.78
3470.1	4.95	4.91	4.86
3550.1	5.58	5.63	5.66
3650.1	6.51	6.51	6.49
3730.1	7.20	7.22	7.22
3830.1	8.01	8.01	7.97
3910.1	8.43	8.35	8.16
4010.1	9.18	9.13	8.99

IF (OUT) (MHz)	IF VSWR @LO=3330MHz (:1) @LO (dBm)		
	+14	+17	+20
10.0	1.04	1.18	1.33
90.0	1.27	1.32	1.44
170.0	1.55	1.57	1.64
250.0	1.84	1.82	1.85
330.0	2.13	2.07	2.06
410.0	2.38	2.26	2.23
490.0	2.66	2.49	2.41
570.0	2.79	2.57	2.46
650.0	2.84	2.59	2.45
730.0	2.82	2.54	2.38
810.0	2.71	2.42	2.23
890.0	2.60	2.29	2.09
970.0	2.46	2.12	1.89
1050.0	2.30	1.95	1.72
1130.0	2.05	1.73	1.51
1210.0	1.83	1.54	1.34
1290.0	1.65	1.40	1.22
1370.0	1.46	1.25	1.16
1450.0	1.29	1.17	1.20
1530.0	1.11	1.15	1.30
1610.0	1.07	1.26	1.45
1690.0	1.21	1.39	1.58
1770.0	1.41	1.56	1.75
1870.0	1.67	1.77	1.91
1950.0	1.91	1.96	2.08
2050.0	2.29	2.29	2.35
2130.0	2.56	2.54	2.57
2230.0	2.80	2.70	2.66
2310.0	2.86	2.72	2.64
2410.0	2.93	2.75	2.62
2490.0	3.00	2.81	2.66
2590.0	3.22	3.06	2.92
2670.0	3.55	3.40	3.26
2770.0	3.53	3.38	3.25
2850.0	3.28	3.15	3.04
2950.0	2.78	2.67	2.59
3030.0	2.29	2.18	2.13
3130.0	1.80	1.69	1.64
3210.0	1.45	1.35	1.30
3310.0	1.20	1.11	1.10

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	5	15	30	25	36	50	39	53	---	---
1	-	23	+0	30	20	43	36	41	43	52	58	---
2	60	52	49	68	51	51	62	55	76	66	68	66
3	>90	73	60	77	53	74	59	75	69	77	70	81
4	>90	>84	>84	>84	81	79	78	>84	>84	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	---	---	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	---	---	---	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 2860 MHz; 2.00 dBm.
LO IN: 2700 MHz; +17.00 dBm
IF OUT: 160 MHz; -5.69 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	16	24	34	42	42	53	52	63	---	---
1	-	22	+0	30	21	47	38	43	48	54	71	---
2	40	43	39	54	43	43	54	49	64	58	65	60
3	62	55	40	70	34	58	42	64	54	71	56	76
4	86	74	66	67	61	60	58	58	69	63	80	71
5	>90	78	75	70	61	80	57	65	60	72	69	82
6	>90	>94	93	88	81	74	71	66	69	82	78	80
7	>90	>94	93	>94	87	84	80	89	68	76	75	76
8	>90	>94	90	>94	93	92	>94	83	93	77	75	83
9	---	---	>94	>94	>94	>94	90	88	81	94	77	87
10	---	---	---	>94	>94	>94	>94	>94	92	>94	91	84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2860 MHz; 12.00 dBm.
LO IN: 2700 MHz; +17.00 dBm
IF OUT: 160 MHz; 4.14 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.