

Frequency Mixer

AMCY-ED12565

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=161MHz (dB)		
		@LO (dBm)		
		-2	+1	+4
200.1	361.1	10.89	10.49	13.65
240.1	401.1	9.27	8.83	9.43
280.1	441.1	8.05	8.18	9.08
320.1	481.1	7.69	8.33	8.95
360.1	521.1	7.48	8.75	7.66
400.1	561.1	7.19	7.24	7.17
440.1	601.1	7.12	7.30	7.82
480.1	641.1	7.41	8.13	9.12
520.1	681.1	7.49	8.73	9.58
560.1	721.1	8.29	10.29	10.70
600.1	761.1	7.23	7.40	7.97
640.1	801.1	6.84	6.95	7.13
680.1	841.1	6.90	7.07	7.22
720.1	881.1	6.99	7.06	7.14
760.1	921.1	6.89	6.89	6.93
800.1	961.1	6.82	6.80	6.85
840.1	1001.1	6.94	6.99	7.23
880.1	1041.1	7.80	7.82	7.89
920.1	1081.1	7.46	7.43	7.45
960.1	1121.1	7.25	7.12	7.10
1000.1	1161.1	7.43	7.22	7.15
1040.1	1201.1	7.24	7.13	7.13
1080.1	1241.1	7.16	7.07	7.07
1120.1	1281.1	7.03	6.95	6.91
1160.1	1321.1	7.08	6.95	6.89
1210.1	1371.1	7.25	7.10	7.02
1250.1	1411.1	7.40	7.25	7.19
1300.1	1461.1	7.60	7.47	7.45
1340.1	1501.1	7.90	7.73	7.67
1390.1	1551.1	8.24	8.12	8.02
1430.1	1591.1	8.46	8.49	8.70
1480.1	1641.1	9.00	9.05	9.48
1520.1	1681.1	9.25	9.03	9.08
1570.1	1731.1	9.41	9.11	9.01
1610.1	1771.1	9.43	9.10	8.98
1660.1	1821.1	9.41	9.02	8.90
1700.1	1861.1	9.54	9.09	8.91
1750.1	1911.1	9.65	9.21	9.01
1790.1	1951.1	10.04	9.57	9.36
1840.1	2001.1	10.95	10.57	10.46

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		-2	+1	+4
200.1	361.1	14.53	16.26	23.49
240.1	401.1	17.89	19.72	23.07
280.1	441.1	20.15	24.34	24.36
320.1	481.1	23.96	23.41	21.19
360.1	521.1	21.35	21.10	19.13
400.1	561.1	28.29	30.45	25.02
440.1	601.1	27.33	25.15	19.59
480.1	641.1	25.10	24.99	21.64
520.1	681.1	24.74	20.84	19.01
560.1	721.1	21.90	29.92	25.02
600.1	761.1	26.24	23.73	24.93
640.1	801.1	26.32	27.12	28.05
680.1	841.1	26.12	28.97	25.77
720.1	881.1	27.06	28.06	29.02
760.1	921.1	27.77	28.60	27.76
800.1	961.1	28.78	31.60	30.20
840.1	1001.1	26.69	27.51	24.90
880.1	1041.1	33.93	35.66	35.91
920.1	1081.1	35.73	37.18	36.63
960.1	1121.1	31.47	33.01	33.36
1000.1	1161.1	31.70	32.03	32.26
1040.1	1201.1	29.37	29.28	28.99
1080.1	1241.1	26.44	26.95	27.18
1120.1	1281.1	26.11	26.23	26.35
1160.1	1321.1	26.90	27.31	27.82
1210.1	1371.1	25.02	25.89	26.87
1250.1	1411.1	25.11	25.82	26.49
1300.1	1461.1	24.54	25.81	27.50
1340.1	1501.1	23.80	24.12	26.21
1390.1	1551.1	24.07	22.72	22.12
1430.1	1591.1	25.65	24.91	23.02
1480.1	1641.1	28.65	30.56	30.40
1520.1	1681.1	27.87	28.78	26.01
1570.1	1731.1	23.93	24.69	26.46
1610.1	1771.1	24.34	23.70	23.59
1660.1	1821.1	25.18	25.91	25.94
1700.1	1861.1	22.61	23.86	24.18
1750.1	1911.1	21.91	23.81	24.69
1790.1	1951.1	21.75	23.61	24.24
1840.1	2001.1	22.66	23.71	23.81

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		-2	+1	+4
200.1	361.1	0.94	0.80	-0.25
240.1	401.1	1.16	0.61	0.29
280.1	441.1	1.63	0.83	0.05
320.1	481.1	1.07	0.59	-0.14
360.1	521.1	1.32	0.79	1.23
400.1	561.1	0.66	0.49	0.66
440.1	601.1	0.43	0.40	0.69
480.1	641.1	0.27	0.11	0.38
520.1	681.1	0.24	-0.26	1.67
560.1	721.1	0.52	0.06	0.20
600.1	761.1	0.55	0.71	0.65
640.1	801.1	0.48	0.43	0.46
680.1	841.1	0.48	0.39	0.42
720.1	881.1	0.20	0.16	0.18
760.1	921.1	-0.03	-0.03	-0.03
800.1	961.1	-0.02	0.01	0.00
840.1	1001.1	0.17	0.21	0.22
880.1	1041.1	0.12	0.09	0.09
920.1	1081.1	0.08	0.07	0.07
960.1	1121.1	0.24	0.17	0.15
1000.1	1161.1	0.18	0.16	0.16
1040.1	1201.1	0.26	0.26	0.29
1080.1	1241.1	0.46	0.44	0.45
1120.1	1281.1	0.57	0.56	0.56
1160.1	1321.1	0.48	0.46	0.42
1210.1	1371.1	0.55	0.47	0.42
1250.1	1411.1	0.55	0.43	0.39
1300.1	1461.1	0.65	0.48	0.38
1340.1	1501.1	0.69	0.60	0.54
1390.1	1551.1	0.69	0.67	0.75
1430.1	1591.1	0.61	0.49	0.41
1480.1	1641.1	0.45	0.33	0.17
1520.1	1681.1	0.37	0.39	0.49
1570.1	1731.1	0.38	0.31	0.38
1610.1	1771.1	0.40	0.26	0.26
1660.1	1821.1	0.63	0.51	0.45
1700.1	1861.1	0.77	0.67	0.62
1750.1	1911.1	0.82	0.68	0.59
1790.1	1951.1	0.61	0.55	0.50
1840.1	2001.1	0.40	0.50	0.51

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=942MHz (dB)
		@LO (dBm) +1
552.0	390.0	10.73
520.6	421.4	9.62
489.2	452.8	9.61
457.7	484.3	9.53
426.3	515.7	10.50
394.9	547.1	8.56
363.5	578.5	7.92
332.1	609.9	7.70
300.6	641.4	7.81
277.1	664.9	8.35
245.7	696.3	9.03
222.1	719.9	10.35
190.7	751.3	7.65
167.1	774.9	7.30
135.7	806.3	7.41
112.1	829.9	7.51
80.7	861.3	7.70
57.1	884.9	8.15
25.7	916.3	11.10
10.0	952.0	17.53
57.9	999.9	8.18
93.8	1035.8	8.31
141.7	1083.7	7.39
177.6	1119.6	7.15
225.5	1167.5	7.21
261.4	1203.4	7.16
309.3	1251.3	7.26
345.2	1287.2	7.50
393.1	1335.1	7.76
429.0	1371.0	7.91
476.9	1418.9	8.06
512.8	1454.8	8.20
560.7	1502.7	8.46
596.6	1538.6	8.64
644.5	1586.5	9.36
680.4	1622.4	9.57
728.3	1670.3	10.31
764.2	1706.2	10.75
812.1	1754.1	10.69
848.0	1790.0	10.44

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=902MHz (dB)
		@LO (dBm) +1
10.0	912.0	17.74
30.0	932.0	10.27
50.0	952.0	8.35
70.0	972.0	7.63
90.0	992.0	7.26
110.0	1012.0	8.04
130.0	1032.0	8.11
150.0	1052.0	7.71
170.0	1072.0	7.45
200.0	1102.0	7.15
220.0	1122.0	7.03
250.0	1152.0	7.18
270.0	1172.0	7.08
300.0	1202.0	7.11
320.0	1222.0	7.14
350.0	1252.0	7.32
370.0	1272.0	7.39
400.0	1302.0	7.61
420.0	1322.0	7.72
450.0	1352.0	7.88
470.0	1372.0	8.01
500.0	1402.0	8.05
520.0	1422.0	8.09
550.0	1452.0	8.17
570.0	1472.0	8.26
600.0	1502.0	8.45
620.0	1522.0	8.59
650.0	1552.0	8.98
670.0	1572.0	9.30
700.0	1602.0	9.48
720.0	1622.0	9.88
750.0	1652.0	10.33
770.0	1672.0	10.62
800.0	1702.0	10.83
820.0	1722.0	10.86
850.0	1752.0	10.75
870.0	1772.0	10.56
900.0	1802.0	10.44
920.0	1822.0	10.73
950.0	1852.0	10.94

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=982MHz (dB)
		@LO (dBm) +1
610.0	372.0	11.99
590.0	392.0	10.89
570.0	412.0	9.95
550.0	432.0	9.57
530.0	452.0	9.64
520.0	462.0	9.89
500.0	482.0	9.72
490.0	492.0	9.40
470.0	512.0	9.66
460.0	522.0	10.28
440.0	542.0	8.96
430.0	552.0	8.54
410.0	572.0	8.10
400.0	582.0	8.04
380.0	602.0	7.79
370.0	612.0	7.75
350.0	632.0	7.74
340.0	642.0	7.83
320.0	662.0	8.17
310.0	672.0	8.33
290.0	692.0	8.20
280.0	702.0	10.39
260.0	722.0	10.33
250.0	732.0	9.47
230.0	752.0	7.47
220.0	762.0	7.23
200.0	782.0	7.04
190.0	792.0	7.11
170.0	812.0	7.20
160.0	822.0	7.23
140.0	842.0	7.23
130.0	852.0	7.19
110.0	872.0	7.23
100.0	882.0	7.21
80.0	902.0	7.44
70.0	912.0	7.60
50.0	932.0	8.28
40.0	942.0	8.99
20.0	962.0	12.35
10.0	972.0	17.44

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	-2	+1	+4	-2	+1	+4
361.1	26.30	24.94	26.50	31.61	31.13	29.29
401.1	29.96	30.42	34.41	28.20	27.16	26.36
441.1	30.69	34.16	37.83	25.99	25.45	27.03
481.1	28.43	31.96	31.62	22.99	24.11	30.26
521.1	23.84	26.00	28.74	20.90	23.04	27.87
561.1	21.13	21.92	26.08	18.30	19.48	24.35
601.1	19.11	20.84	22.93	17.43	19.71	23.41
641.1	18.89	20.50	23.33	15.54	17.31	26.63
681.1	15.46	19.29	23.00	15.79	17.80	24.98
721.1	14.53	16.46	20.02	18.05	20.36	21.61
761.1	20.29	23.52	27.78	15.74	19.74	25.00
801.1	18.04	19.22	21.32	13.97	16.61	19.72
841.1	19.38	20.59	22.82	12.58	14.51	17.06
881.1	19.78	19.92	21.92	12.11	13.94	16.66
921.1	19.81	18.91	20.53	11.86	13.76	16.60
961.1	15.31	15.67	17.34	9.03	10.59	13.61
1001.1	10.46	11.42	12.85	7.09	8.99	12.27
1041.1	27.36	28.64	30.08	7.67	9.98	13.54
1081.1	26.72	29.50	32.64	5.94	8.50	12.08
1121.1	27.77	25.53	26.40	4.49	6.91	10.36
1161.1	15.68	19.40	24.25	7.33	9.96	13.53
1201.1	18.91	20.52	22.58	10.08	14.47	19.08
1241.1	17.38	19.17	21.19	12.82	16.14	19.66
1281.1	17.61	19.61	21.97	12.67	15.62	18.53
1321.1	16.18	18.05	20.41	12.59	15.40	18.16
1371.1	14.68	16.26	18.62	12.95	15.53	18.07
1411.1	14.06	15.53	17.95	13.14	15.65	18.17
1461.1	13.30	14.30	16.39	13.46	15.91	18.47
1501.1	13.20	14.25	16.01	13.35	15.66	18.23
1551.1	13.11	14.52	16.57	13.45	15.82	18.65
1591.1	13.51	15.15	17.62	13.82	15.51	18.04
1641.1	14.47	15.79	17.79	13.27	14.54	16.66
1681.1	14.22	15.21	16.90	13.01	14.28	16.37
1731.1	13.81	14.63	16.11	13.54	14.92	16.91
1771.1	13.51	14.13	15.35	13.78	15.41	17.86
1821.1	14.62	15.10	16.15	13.76	15.46	18.16
1861.1	15.02	15.04	15.73	13.41	15.02	17.77
1911.1	16.34	15.72	15.49	13.76	15.68	18.77
1951.1	17.74	16.79	16.17	12.65	14.40	17.35
2001.1	19.95	19.03	18.14	8.96	10.40	13.03

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		-2	+1	+4
200.1	361.1	29.01	21.89	17.78
240.1	401.1	28.54	19.54	14.62
280.1	441.1	26.34	17.13	14.69
320.1	481.1	25.77	16.34	15.56
360.1	521.1	31.86	30.31	21.11
400.1	561.1	20.92	18.22	20.43
440.1	601.1	19.64	17.24	15.60
480.1	641.1	19.16	17.49	15.92
520.1	681.1	19.32	16.00	20.22
560.1	721.1	34.00	36.90	38.88
600.1	761.1	31.20	29.08	35.31
640.1	801.1	30.41	30.02	29.95
680.1	841.1	28.31	28.11	28.29
720.1	881.1	29.48	30.77	32.50
760.1	921.1	30.18	32.97	32.78
800.1	961.1	32.90	38.02	38.85
840.1	1001.1	28.52	30.83	36.42
880.1	1041.1	27.91	27.87	30.53
920.1	1081.1	26.39	28.02	31.68
960.1	1121.1	21.15	24.34	27.18
1000.1	1161.1	19.34	22.46	25.51
1040.1	1201.1	20.90	23.25	24.02
1080.1	1241.1	26.31	29.23	30.42
1120.1	1281.1	28.38	29.53	29.71
1160.1	1321.1	23.83	24.16	24.26
1210.1	1371.1	20.11	20.26	20.28
1250.1	1411.1	19.05	19.24	19.31
1300.1	1461.1	18.18	18.52	18.68
1340.1	1501.1	17.75	18.14	18.28
1390.1	1551.1	17.28	17.74	17.95
1430.1	1591.1	16.88	17.30	17.49
1480.1	1641.1	16.75	17.21	17.40
1520.1	1681.1	16.70	17.05	17.26
1570.1	1731.1	16.70	16.90	17.05
1610.1	1771.1	17.05	17.16	17.20
1660.1	1821.1	17.83	18.02	18.03
1700.1	1861.1	18.62	18.79	18.71
1750.1	1911.1	19.51	19.54	19.34
1790.1	1951.1	20.04	19.86	19.50
1840.1	2001.1	19.94	19.47	18.98

Frequency Mixer

AMCY-ED12565

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1098MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		-2	+1	+4		-2	+1	+4		-2	+1	+4
200.1	361.1	2.38	2.16	2.13	361.1	5.04	5.07	5.19	10.0	11.69	11.53	11.53
240.1	401.1	1.68	1.53	1.53	401.1	4.13	4.17	4.27	30.0	4.74	4.70	4.70
280.1	441.1	1.24	1.18	1.23	441.1	3.47	3.55	3.65	50.0	2.95	2.94	2.94
320.1	481.1	1.09	1.08	1.12	481.1	3.04	3.13	3.31	70.0	2.35	2.36	2.35
360.1	521.1	1.31	1.26	1.25	521.1	2.65	2.70	2.91	90.0	1.96	1.97	1.97
400.1	561.1	1.49	1.54	1.45	561.1	2.43	2.51	2.69	110.0	1.81	1.83	1.82
440.1	601.1	1.67	1.67	1.66	601.1	2.35	2.44	2.53	130.0	1.71	1.73	1.72
480.1	641.1	1.77	1.71	1.80	641.1	2.31	2.33	2.29	150.0	1.61	1.63	1.62
520.1	681.1	1.81	1.82	1.68	681.1	2.24	2.15	2.09	170.0	1.58	1.60	1.60
560.1	721.1	1.67	1.51	1.51	721.1	2.11	1.98	1.97	190.0	1.46	1.49	1.48
600.1	761.1	1.70	1.67	1.65	761.1	2.04	1.94	1.92	210.0	1.47	1.50	1.49
640.1	801.1	1.64	1.60	1.58	801.1	1.93	1.84	1.80	230.0	1.51	1.54	1.53
680.1	841.1	1.62	1.55	1.52	841.1	1.83	1.75	1.71	250.0	1.44	1.47	1.47
720.1	881.1	1.62	1.56	1.54	881.1	1.72	1.67	1.63	270.0	1.47	1.50	1.51
760.1	921.1	1.50	1.46	1.46	921.1	1.60	1.56	1.53	290.0	1.52	1.56	1.56
800.1	961.1	1.39	1.31	1.31	961.1	1.40	1.39	1.40	310.0	1.51	1.54	1.54
840.1	1001.1	1.40	1.29	1.24	1001.1	1.25	1.25	1.28	330.0	1.60	1.63	1.64
880.1	1041.1	1.14	1.15	1.15	1041.1	1.12	1.15	1.20	350.0	1.58	1.61	1.61
920.1	1081.1	1.31	1.30	1.29	1081.1	1.21	1.21	1.21	370.0	1.64	1.67	1.68
960.1	1121.1	1.39	1.37	1.36	1121.1	1.37	1.35	1.30	390.0	1.74	1.77	1.77
1000.1	1161.1	1.47	1.47	1.46	1161.1	1.51	1.46	1.41	410.0	1.75	1.77	1.77
1040.1	1201.1	1.50	1.48	1.48	1201.1	1.61	1.54	1.48	440.0	1.80	1.83	1.83
1080.1	1241.1	1.61	1.56	1.55	1241.1	1.66	1.57	1.50	460.0	1.92	1.95	1.95
1120.1	1281.1	1.55	1.52	1.51	1281.1	1.73	1.61	1.53	490.0	2.01	2.04	2.04
1160.1	1321.1	1.40	1.37	1.36	1321.1	1.77	1.64	1.54	510.0	1.98	2.00	2.00
1210.1	1371.1	1.25	1.23	1.23	1371.1	1.80	1.66	1.55	540.0	2.03	2.05	2.05
1250.1	1411.1	1.21	1.23	1.23	1411.1	1.78	1.65	1.53	560.0	2.19	2.20	2.20
1300.1	1461.1	1.25	1.30	1.33	1461.1	1.71	1.61	1.49	590.0	2.29	2.30	2.30
1340.1	1501.1	1.29	1.36	1.39	1501.1	1.68	1.58	1.46	610.0	2.28	2.29	2.28
1390.1	1551.1	1.28	1.35	1.39	1551.1	1.62	1.53	1.42	640.0	2.42	2.43	2.42
1430.1	1591.1	1.32	1.35	1.38	1591.1	1.57	1.51	1.41	660.0	2.57	2.57	2.57
1480.1	1641.1	1.43	1.47	1.52	1641.1	1.51	1.46	1.36	690.0	2.71	2.72	2.72
1520.1	1681.1	1.57	1.57	1.58	1681.1	1.48	1.42	1.33	710.0	2.75	2.75	2.76
1570.1	1731.1	1.72	1.69	1.68	1731.1	1.47	1.41	1.32	740.0	2.86	2.86	2.88
1610.1	1771.1	1.90	1.86	1.85	1771.1	1.48	1.41	1.32	760.0	2.99	2.99	3.00
1660.1	1821.1	2.08	2.01	1.99	1821.1	1.50	1.44	1.35	790.0	3.18	3.18	3.20
1700.1	1861.1	2.32	2.24	2.22	1861.1	1.51	1.45	1.35	810.0	3.26	3.27	3.29
1750.1	1911.1	2.52	2.42	2.40	1911.1	1.54	1.48	1.38	840.0	3.45	3.47	3.49
1790.1	1951.1	2.78	2.66	2.62	1951.1	1.57	1.49	1.40	860.0	3.62	3.63	3.66
1840.1	2001.1	2.89	2.77	2.73	2001.1	1.62	1.54	1.45	890.0	3.86	3.88	3.91

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+1	10	20	13	27	25	38	40	31	48
1	-	18	+0	27	17	40	39	37	51	41	54	47
2	61	52	54	47	54	49	65	64	71	65	66	88
3	95	85	79	81	>93	86	81	>93	91	>93	87	>93
4	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
5	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
6	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
7	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
8	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 942 MHz; 0.00 dBm.
LO IN: 1103 MHz; +1.00 dBm
IF OUT: 161 MHz; -7.37 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	9	21	31	22	37	35	52	50	43	64
1	-	18	+0	27	17	40	40	38	51	42	55	47
2	41	42	44	37	44	39	55	54	61	56	58	77
3	65	63	57	58	64	64	60	73	70	76	69	100
4	91	79	70	70	66	65	70	72	79	77	80	85
5	>100	92	89	79	79	84	82	83	88	87	91	88
6	>100	100	>103	102	92	>103	88	95	95	100	>103	>103
7	>100	>103	>103	>103	>103	101	95	100	101	99	>103	>103
8	>100	>103	>103	>103	>103	>103	>103	>103	>103	>103	>103	>103
9	>100	>103	>103	>103	>103	>103	>103	>103	>103	>103	>103	>103
10	>100	>103	>103	>103	>103	>103	>103	>103	>103	>103	>103	>103
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 942 MHz; 10.00 dBm.
LO IN: 1103 MHz; +1.00 dBm
IF OUT: 161 MHz; 2.62 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.