

Frequency Mixer

AMCY-ED12682/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=161MHz (dB)		
		@LO (dBm)		
		-1	+1	+3
240.1	401.1	8.92	8.72	8.99
280.1	441.1	7.86	7.95	8.42
320.1	481.1	7.54	7.91	8.44
360.1	521.1	7.30	7.72	7.28
400.1	561.1	7.11	7.12	7.05
440.1	601.1	6.97	7.07	7.22
480.1	641.1	7.25	7.59	8.31
520.1	681.1	7.47	8.44	8.42
560.1	721.1	8.48	10.30	11.04
600.1	761.1	7.27	7.43	7.79
640.1	801.1	6.82	6.91	7.01
680.1	841.1	6.71	6.83	6.92
720.1	881.1	6.81	6.84	6.88
760.1	921.1	6.79	6.80	6.81
800.1	961.1	6.65	6.63	6.64
840.1	1001.1	6.54	6.48	6.47
880.1	1041.1	7.60	7.61	7.65
920.1	1081.1	7.37	7.34	7.32
960.1	1121.1	7.15	7.11	7.09
1000.1	1161.1	7.32	7.24	7.18
1040.1	1201.1	7.18	7.12	7.08
1080.1	1241.1	7.09	7.02	6.99
1120.1	1281.1	6.91	6.85	6.83
1160.1	1321.1	6.87	6.79	6.74
1210.1	1371.1	6.99	6.89	6.83
1250.1	1411.1	7.12	7.01	6.96
1300.1	1461.1	7.37	7.26	7.21
1340.1	1501.1	7.73	7.60	7.54
1390.1	1551.1	8.10	7.94	7.85
1430.1	1591.1	8.32	8.23	8.26
1480.1	1641.1	8.72	8.60	8.65
1520.1	1681.1	9.15	8.89	8.76
1570.1	1731.1	9.24	8.93	8.73
1610.1	1771.1	9.28	8.99	8.80
1660.1	1821.1	9.13	8.78	8.53
1700.1	1861.1	9.35	8.95	8.67
1750.1	1911.1	9.38	8.97	8.68
1790.1	1951.1	9.85	9.42	9.12
1840.1	2001.1	11.20	10.84	10.60

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		-1	+1	+3
240.1	401.1	18.32	19.65	22.35
280.1	441.1	19.54	20.97	24.39
320.1	481.1	21.75	23.45	21.52
360.1	521.1	19.67	18.37	18.60
400.1	561.1	26.83	29.52	27.26
440.1	601.1	26.65	24.71	19.84
480.1	641.1	24.39	23.02	20.71
520.1	681.1	23.76	20.77	19.87
560.1	721.1	20.54	26.70	27.23
600.1	761.1	22.35	21.72	22.82
640.1	801.1	29.51	29.65	28.88
680.1	841.1	27.86	28.99	26.08
720.1	881.1	26.12	26.96	27.22
760.1	921.1	27.03	27.09	26.68
800.1	961.1	31.96	32.60	32.42
840.1	1001.1	30.27	29.59	28.30
880.1	1041.1	29.90	31.12	31.21
920.1	1081.1	31.58	31.54	31.41
960.1	1121.1	29.69	30.48	31.69
1000.1	1161.1	31.53	32.01	32.18
1040.1	1201.1	29.46	29.36	28.96
1080.1	1241.1	24.55	24.87	25.18
1120.1	1281.1	24.90	25.26	25.56
1160.1	1321.1	24.74	25.02	25.38
1210.1	1371.1	25.05	26.37	27.44
1250.1	1411.1	24.19	25.22	25.98
1300.1	1461.1	23.98	25.00	26.19
1340.1	1501.1	23.39	23.63	24.55
1390.1	1551.1	23.85	23.14	22.62
1430.1	1591.1	24.93	25.22	25.12
1480.1	1641.1	27.46	29.04	39.97
1520.1	1681.1	25.08	24.24	23.79
1570.1	1731.1	21.01	21.57	22.74
1610.1	1771.1	21.54	21.99	22.90
1660.1	1821.1	26.14	24.81	23.98
1700.1	1861.1	22.06	22.08	22.34
1750.1	1911.1	20.42	21.26	22.24
1790.1	1951.1	20.47	21.36	22.08
1840.1	2001.1	19.54	20.47	20.91

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		-1	+1	+3
240.1	401.1	1.53	1.07	0.79
280.1	441.1	1.91	1.33	0.77
320.1	481.1	1.30	0.75	0.18
360.1	521.1	1.65	1.29	1.47
400.1	561.1	0.83	0.60	0.68
440.1	601.1	0.58	0.58	0.93
480.1	641.1	0.51	0.47	0.38
520.1	681.1	0.44	0.03	0.77
560.1	721.1	0.65	0.08	0.04
600.1	761.1	0.82	0.93	0.85
640.1	801.1	0.62	0.56	0.58
680.1	841.1	0.53	0.45	0.47
720.1	881.1	0.48	0.42	0.41
760.1	921.1	-0.01	-0.02	-0.03
800.1	961.1	0.07	0.09	0.09
840.1	1001.1	0.23	0.26	0.29
880.1	1041.1	0.32	0.25	0.21
920.1	1081.1	0.16	0.15	0.15
960.1	1121.1	0.32	0.25	0.21
1000.1	1161.1	0.22	0.18	0.17
1040.1	1201.1	0.43	0.38	0.37
1080.1	1241.1	0.64	0.61	0.61
1120.1	1281.1	0.81	0.72	0.69
1160.1	1321.1	0.82	0.71	0.65
1210.1	1371.1	0.74	0.59	0.52
1250.1	1411.1	0.72	0.62	0.57
1300.1	1461.1	0.68	0.60	0.55
1340.1	1501.1	0.71	0.67	0.63
1390.1	1551.1	0.73	0.74	0.79
1430.1	1591.1	0.88	0.72	0.60
1480.1	1641.1	0.92	0.62	0.42
1520.1	1681.1	0.97	0.68	0.56
1570.1	1731.1	1.02	0.63	0.42
1610.1	1771.1	0.72	0.39	0.20
1660.1	1821.1	0.79	0.77	0.77
1700.1	1861.1	0.93	0.93	0.94
1750.1	1911.1	1.14	1.01	0.90
1790.1	1951.1	1.02	0.93	0.84
1840.1	2001.1	0.50	0.56	0.62

Frequency Mixer

AMCY-ED12682/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=942MHz (dB)
		@LO (dBm)
		+1
552.0	390.0	10.97
520.6	421.4	9.41
489.2	452.8	9.15
457.7	484.3	9.19
426.3	515.7	9.18
394.9	547.1	8.49
363.5	578.5	7.69
332.1	609.9	7.43
300.6	641.4	7.36
277.1	664.9	7.73
245.7	696.3	8.09
222.1	719.9	10.02
190.7	751.3	7.61
167.1	774.9	7.04
135.7	806.3	7.16
112.1	829.9	7.44
80.7	861.3	7.56
57.1	884.9	7.78
25.7	916.3	10.18
10.0	952.0	16.70
57.9	999.9	7.61
93.8	1035.8	7.98
141.7	1083.7	7.28
177.6	1119.6	7.01
225.5	1167.5	7.13
261.4	1203.4	7.06
309.3	1251.3	7.18
345.2	1287.2	7.36
393.1	1335.1	7.68
429.0	1371.0	7.89
476.9	1418.9	8.12
512.8	1454.8	8.26
560.7	1502.7	8.55
596.6	1538.6	8.74
644.5	1586.5	9.35
680.4	1622.4	9.98
728.3	1670.3	10.59
764.2	1706.2	11.02
812.1	1754.1	11.14
848.0	1790.0	11.06

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=902MHz (dB)
		@LO (dBm)
		+1
10.0	912.0	16.75
30.0	932.0	9.51
50.0	952.0	7.91
70.0	972.0	7.28
90.0	992.0	6.95
110.0	1012.0	6.95
130.0	1032.0	7.70
150.0	1052.0	7.60
170.0	1072.0	7.36
200.0	1102.0	6.94
220.0	1122.0	6.92
250.0	1152.0	7.13
270.0	1172.0	7.07
300.0	1202.0	7.06
320.0	1222.0	7.12
350.0	1252.0	7.24
370.0	1272.0	7.35
400.0	1302.0	7.55
420.0	1322.0	7.71
450.0	1352.0	7.85
470.0	1372.0	8.06
500.0	1402.0	8.18
520.0	1422.0	8.19
550.0	1452.0	8.27
570.0	1472.0	8.34
600.0	1502.0	8.51
620.0	1522.0	8.65
650.0	1552.0	8.96
670.0	1572.0	9.36
700.0	1602.0	9.82
720.0	1622.0	10.20
750.0	1652.0	10.68
770.0	1672.0	10.92
800.0	1702.0	11.15
820.0	1722.0	11.20
850.0	1752.0	11.10
870.0	1772.0	11.10
900.0	1802.0	11.07
920.0	1822.0	11.40
950.0	1852.0	11.46

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=982MHz (dB)
		@LO (dBm)
		+1
610.0	372.0	12.63
590.0	392.0	11.16
570.0	412.0	10.01
550.0	432.0	9.32
530.0	452.0	9.11
520.0	462.0	9.32
500.0	482.0	9.41
490.0	492.0	8.97
470.0	512.0	8.83
460.0	522.0	9.18
440.0	542.0	9.08
430.0	552.0	8.51
410.0	572.0	8.03
400.0	582.0	7.90
380.0	602.0	7.66
370.0	612.0	7.55
350.0	632.0	7.45
340.0	642.0	7.44
320.0	662.0	7.63
310.0	672.0	7.80
290.0	692.0	7.94
280.0	702.0	8.65
260.0	722.0	10.29
250.0	732.0	9.47
230.0	752.0	7.50
220.0	762.0	7.05
200.0	782.0	6.81
190.0	792.0	6.92
170.0	812.0	7.05
160.0	822.0	7.09
140.0	842.0	7.14
130.0	852.0	7.17
110.0	872.0	7.13
100.0	882.0	7.12
80.0	902.0	7.20
70.0	912.0	7.34
50.0	932.0	7.97
40.0	942.0	8.45
20.0	962.0	11.46
10.0	972.0	16.62

REV. X2

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101012

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Frequency Mixer

AMCY-ED12682/1

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	-1	+1	+3	-1	+1	+3
401.1	30.77	31.29	33.49	28.48	27.32	26.51
441.1	30.71	32.57	35.68	27.46	26.85	26.78
481.1	28.59	30.55	31.05	26.02	27.45	30.76
521.1	23.88	25.47	28.52	23.79	25.72	30.63
561.1	21.08	21.72	23.39	20.69	21.89	24.51
601.1	20.23	21.53	23.13	19.88	21.08	22.05
641.1	19.60	20.93	22.78	17.59	18.98	22.14
681.1	18.30	21.44	25.29	17.35	18.49	22.18
721.1	15.68	17.34	20.74	19.38	20.19	19.82
761.1	21.48	23.73	26.49	15.44	16.98	18.74
801.1	20.72	22.56	25.02	14.96	16.70	18.72
841.1	22.11	23.34	25.22	13.61	14.83	16.39
881.1	21.94	22.70	24.17	13.03	14.27	15.82
921.1	20.61	20.29	21.02	13.71	15.10	16.80
961.1	26.88	26.06	25.95	11.07	12.08	13.73
1001.1	23.80	25.03	27.85	9.40	10.50	12.35
1041.1	18.73	19.57	21.03	9.40	10.58	12.44
1081.1	19.44	20.70	22.12	8.94	10.51	12.50
1121.1	16.85	17.59	18.78	7.97	9.56	11.48
1161.1	19.06	21.36	23.90	9.74	11.16	12.80
1201.1	21.47	23.60	25.76	12.24	14.64	17.50
1241.1	23.40	24.66	25.71	18.55	21.54	25.30
1281.1	21.59	22.96	24.17	17.86	19.97	22.05
1321.1	19.17	20.42	21.68	17.37	19.20	20.89
1371.1	17.22	18.45	19.82	17.44	19.05	20.48
1411.1	16.10	17.32	18.83	17.03	18.45	19.72
1461.1	15.29	16.21	17.44	16.74	18.06	19.25
1501.1	15.50	16.48	17.62	16.00	17.16	18.34
1551.1	15.55	16.82	18.40	16.31	17.14	18.18
1591.1	16.25	17.59	19.48	16.71	17.11	17.86
1641.1	16.99	18.32	19.97	15.74	16.12	16.72
1681.1	16.89	18.05	19.54	15.55	16.07	16.76
1731.1	17.07	18.05	19.36	16.15	16.75	17.43
1771.1	17.25	18.00	19.03	16.52	17.23	17.99
1821.1	18.00	18.50	19.30	17.23	18.05	18.78
1861.1	18.85	19.05	19.60	17.96	19.07	20.13
1911.1	18.58	18.10	18.01	20.48	22.13	23.26
1951.1	20.62	19.42	18.58	19.62	20.77	21.49
2001.1	30.90	27.29	24.49	15.93	17.28	19.02

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		-1	+1	+3
240.1	401.1	21.49	17.83	14.65
280.1	441.1	20.43	16.35	14.24
320.1	481.1	20.15	15.67	14.51
360.1	521.1	30.95	22.20	17.74
400.1	561.1	21.21	19.62	20.74
440.1	601.1	19.62	17.77	16.41
480.1	641.1	19.47	18.17	16.88
520.1	681.1	19.50	17.24	16.90
560.1	721.1	30.61	32.34	32.63
600.1	761.1	28.04	26.59	29.30
640.1	801.1	28.40	27.92	27.70
680.1	841.1	27.38	27.16	27.00
720.1	881.1	27.82	28.27	28.74
760.1	921.1	29.17	30.94	32.74
800.1	961.1	29.65	31.38	34.39
840.1	1001.1	25.82	26.48	28.54
880.1	1041.1	24.76	24.28	24.27
920.1	1081.1	26.20	26.15	26.73
960.1	1121.1	23.92	25.94	27.74
1000.1	1161.1	21.02	22.72	24.98
1040.1	1201.1	22.58	23.58	24.46
1080.1	1241.1	24.64	25.84	27.27
1120.1	1281.1	25.87	26.72	27.15
1160.1	1321.1	24.86	24.96	24.96
1210.1	1371.1	20.99	21.04	21.04
1250.1	1411.1	19.68	19.76	19.81
1300.1	1461.1	19.02	19.17	19.26
1340.1	1501.1	18.92	19.14	19.24
1390.1	1551.1	18.54	18.81	18.99
1430.1	1591.1	18.23	18.39	18.43
1480.1	1641.1	18.20	18.38	18.48
1520.1	1681.1	18.20	18.31	18.42
1570.1	1731.1	18.41	18.44	18.51
1610.1	1771.1	18.99	19.01	19.04
1660.1	1821.1	20.36	20.49	20.64
1700.1	1861.1	21.88	22.07	22.21
1750.1	1911.1	23.75	23.70	23.47
1790.1	1951.1	24.62	24.16	23.47
1840.1	2001.1	24.11	23.38	22.74

Frequency Mixer

AMCY-ED12682/1

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)		
		-1	+1	+3		-1	+1	+3		-1	+1	+3
240.1	401.1	1.59	1.57	1.59	401.1	4.02	4.07	4.14	30.0	4.82	4.79	4.78
280.1	441.1	1.23	1.29	1.36	441.1	3.34	3.40	3.47	50.0	2.90	2.90	2.90
320.1	481.1	1.13	1.24	1.30	481.1	2.88	2.95	3.05	70.0	2.29	2.30	2.31
360.1	521.1	1.25	1.27	1.27	521.1	2.49	2.55	2.67	90.0	2.00	2.02	2.02
400.1	561.1	1.50	1.55	1.51	561.1	2.25	2.33	2.46	110.0	1.86	1.88	1.88
440.1	601.1	1.61	1.60	1.52	601.1	2.19	2.27	2.34	130.0	1.76	1.77	1.78
480.1	641.1	1.68	1.65	1.63	641.1	2.08	2.11	2.11	150.0	1.70	1.72	1.72
520.1	681.1	1.73	1.72	1.80	681.1	1.97	1.96	1.94	170.0	1.62	1.64	1.64
560.1	721.1	1.60	1.51	1.54	721.1	1.91	1.85	1.80	190.0	1.61	1.62	1.63
600.1	761.1	1.62	1.63	1.64	761.1	1.80	1.76	1.75	210.0	1.59	1.61	1.62
640.1	801.1	1.53	1.52	1.52	801.1	1.75	1.70	1.67	230.0	1.60	1.62	1.62
680.1	841.1	1.48	1.45	1.44	841.1	1.69	1.64	1.61	250.0	1.59	1.61	1.61
720.1	881.1	1.49	1.47	1.45	881.1	1.62	1.58	1.54	270.0	1.62	1.64	1.64
760.1	921.1	1.35	1.33	1.33	921.1	1.52	1.49	1.45	290.0	1.65	1.67	1.68
800.1	961.1	1.23	1.20	1.19	961.1	1.38	1.37	1.35	310.0	1.68	1.70	1.70
840.1	1001.1	1.28	1.24	1.22	1001.1	1.23	1.22	1.23	330.0	1.70	1.72	1.73
880.1	1041.1	1.15	1.17	1.19	1041.1	1.10	1.09	1.11	350.0	1.75	1.77	1.77
920.1	1081.1	1.22	1.22	1.21	1081.1	1.10	1.11	1.10	370.0	1.83	1.84	1.85
960.1	1121.1	1.34	1.34	1.33	1121.1	1.22	1.24	1.25	390.0	1.88	1.89	1.89
1000.1	1161.1	1.40	1.40	1.40	1161.1	1.30	1.30	1.31	410.0	1.96	1.97	1.97
1040.1	1201.1	1.44	1.44	1.43	1201.1	1.39	1.38	1.39	440.0	2.05	2.07	2.07
1080.1	1241.1	1.54	1.52	1.51	1241.1	1.42	1.41	1.40	460.0	2.10	2.11	2.11
1120.1	1281.1	1.50	1.49	1.48	1281.1	1.48	1.44	1.41	490.0	2.19	2.21	2.21
1160.1	1321.1	1.38	1.37	1.36	1321.1	1.52	1.48	1.44	510.0	2.22	2.23	2.23
1210.1	1371.1	1.19	1.17	1.16	1371.1	1.59	1.54	1.48	540.0	2.39	2.39	2.39
1250.1	1411.1	1.08	1.08	1.08	1411.1	1.64	1.58	1.51	560.0	2.46	2.46	2.46
1300.1	1461.1	1.18	1.22	1.24	1461.1	1.68	1.63	1.56	590.0	2.54	2.54	2.54
1340.1	1501.1	1.24	1.29	1.32	1501.1	1.68	1.64	1.57	610.0	2.69	2.70	2.70
1390.1	1551.1	1.26	1.32	1.35	1551.1	1.70	1.66	1.58	640.0	2.84	2.84	2.84
1430.1	1591.1	1.27	1.32	1.35	1591.1	1.67	1.64	1.57	660.0	2.95	2.95	2.94
1480.1	1641.1	1.37	1.41	1.46	1641.1	1.63	1.58	1.51	690.0	3.10	3.11	3.11
1520.1	1681.1	1.47	1.49	1.51	1681.1	1.61	1.57	1.51	710.0	3.20	3.21	3.21
1570.1	1731.1	1.60	1.58	1.58	1731.1	1.64	1.60	1.54	740.0	3.31	3.31	3.32
1610.1	1771.1	1.69	1.66	1.65	1771.1	1.66	1.62	1.56	760.0	3.37	3.37	3.37
1660.1	1821.1	1.92	1.88	1.84	1821.1	1.67	1.63	1.57	790.0	3.62	3.61	3.61
1700.1	1861.1	2.15	2.10	2.06	1861.1	1.67	1.61	1.55	810.0	3.79	3.78	3.78
1750.1	1911.1	2.60	2.54	2.49	1911.1	1.68	1.61	1.54	840.0	3.98	3.97	3.98
1790.1	1951.1	2.82	2.75	2.71	1951.1	1.70	1.63	1.54	860.0	4.17	4.17	4.18
1840.1	2001.1	3.16	3.09	3.06	2001.1	1.72	1.61	1.48	890.0	4.39	4.40	4.41

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	3	18	5	28	34	26	29	51	30	36
1	-	19	+0	32	18	30	39	34	42	49	55	55
2	62	45	60	41	56	46	60	68	63	64	68	75
3	>90	>83	74	>83	79	>83	78	>83	>83	>83	82	>83
4	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
5	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
6	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	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: 1080.5 MHz; +1.00 dBm
IF OUT: 138.5 MHz; -7.33 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	24	16	37	40	36	38	58	42	45
1	-	19	+0	33	18	31	39	34	43	50	56	56
2	42	35	50	32	45	37	50	58	53	55	59	66
3	66	63	54	66	60	66	58	71	75	76	64	75
4	>90	79	72	74	71	70	73	76	81	90	85	80
5	>90	>93	92	84	90	84	82	86	85	92	>93	>93
6	>90	>93	>93	>93	92	>93	>93	>93	>93	>93	>93	>93
7	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
8	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	>90	>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; 10.00 dBm.
LO IN: 1080.5 MHz; +1.00 dBm
IF OUT: 138.5 MHz; 2.61 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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