

Frequency Mixer

AMCY-ED12639/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=169MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+13dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		-2	+1	+4			-2	+1	+4			-2	+1	+4
180.0	349.0	10.87	10.72	12.61	180.0	349.0	12.87	14.27	16.65	180.0	349.0	0.22	-0.04	-0.36
210.0	379.0	9.17	8.84	9.62	210.0	379.0	16.15	18.79	21.43	210.0	379.0	0.25	0.35	0.05
240.0	409.0	8.39	8.10	8.69	240.0	409.0	17.76	20.00	24.47	240.0	409.0	0.60	0.52	0.20
270.0	439.0	7.73	7.66	8.10	270.0	439.0	18.54	21.07	21.01	270.0	439.0	0.78	0.52	0.47
300.0	469.0	7.39	7.27	7.24	300.0	469.0	18.58	20.15	16.52	300.0	469.0	0.50	0.38	0.68
330.0	499.0	7.24	7.07	7.05	330.0	499.0	17.76	19.08	20.97	330.0	499.0	0.56	0.36	1.25
360.0	529.0	7.10	6.95	8.51	360.0	529.0	19.63	21.81	20.40	360.0	529.0	0.93	0.67	0.99
390.0	559.0	7.13	6.94	8.25	390.0	559.0	18.58	19.04	21.23	390.0	559.0	0.77	0.74	0.60
420.0	589.0	7.22	7.07	7.86	420.0	589.0	19.67	18.84	18.18	420.0	589.0	0.62	0.58	0.36
450.0	619.0	7.38	7.27	7.93	450.0	619.0	20.52	19.47	16.77	450.0	619.0	0.53	0.47	0.22
480.0	649.0	7.71	7.71	8.70	480.0	649.0	21.38	20.50	15.20	480.0	649.0	0.50	0.52	0.19
510.0	679.0	8.09	8.19	8.60	510.0	679.0	21.63	22.24	20.66	510.0	679.0	0.64	0.55	0.74
540.0	709.0	7.25	7.23	7.38	540.0	709.0	26.87	26.96	25.98	540.0	709.0	0.43	0.34	0.42
570.0	739.0	7.15	7.08	7.18	570.0	739.0	29.73	29.87	29.28	570.0	739.0	0.33	0.24	0.27
600.0	769.0	7.10	7.03	7.12	600.0	769.0	30.62	30.67	28.41	600.0	769.0	0.32	0.22	0.26
630.0	799.0	6.90	6.80	6.84	630.0	799.0	28.25	30.64	29.84	630.0	799.0	0.37	0.27	0.30
660.0	829.0	6.96	6.88	6.88	660.0	829.0	24.23	24.56	25.03	660.0	829.0	0.59	0.46	0.53
690.0	859.0	7.04	6.98	7.01	690.0	859.0	26.28	27.10	25.65	690.0	859.0	0.45	0.32	0.32
720.0	889.0	6.94	6.87	6.88	720.0	889.0	25.44	26.12	25.01	720.0	889.0	0.09	0.07	0.08
750.0	919.0	7.03	6.99	6.98	750.0	919.0	24.61	25.60	25.83	750.0	919.0	0.00	0.00	0.04
780.0	949.0	7.47	7.56	7.69	780.0	949.0	26.38	36.36	31.58	780.0	949.0	-0.07	-0.01	-0.04
810.0	979.0	7.52	7.53	7.59	810.0	979.0	31.98	33.00	33.00	810.0	979.0	0.13	0.09	0.10
840.0	1009.0	7.30	7.31	7.35	840.0	1009.0	34.51	34.97	33.79	840.0	1009.0	0.07	0.06	0.07
870.0	1039.0	7.24	7.24	7.23	870.0	1039.0	35.10	34.76	34.15	870.0	1039.0	0.08	0.08	0.08
900.0	1069.0	7.31	7.27	7.25	900.0	1069.0	32.67	33.75	33.32	900.0	1069.0	0.12	0.10	0.09
930.0	1099.0	7.41	7.33	7.30	930.0	1099.0	28.90	29.67	29.86	930.0	1099.0	0.19	0.16	0.15
960.0	1129.0	7.58	7.48	7.44	960.0	1129.0	25.95	26.56	25.73	960.0	1129.0	0.41	0.32	0.32
990.0	1159.0	7.83	7.70	7.66	990.0	1159.0	24.93	25.93	25.30	990.0	1159.0	0.57	0.41	0.39
1020.0	1189.0	8.01	7.79	7.74	1020.0	1189.0	22.71	23.84	23.69	1020.0	1189.0	0.82	0.66	0.64
1050.0	1219.0	8.27	7.96	7.87	1050.0	1219.0	21.26	22.32	22.01	1050.0	1219.0	0.93	0.83	0.82
1080.0	1249.0	8.75	8.36	8.27	1080.0	1249.0	20.23	21.02	20.80	1080.0	1249.0	0.72	0.69	0.66
1110.0	1279.0	9.04	8.58	8.48	1110.0	1279.0	20.34	21.31	21.40	1110.0	1279.0	0.39	0.41	0.38
1140.0	1309.0	9.30	8.77	8.66	1140.0	1309.0	22.20	23.08	23.44	1140.0	1309.0	0.27	0.30	0.29
1170.0	1339.0	9.64	9.06	8.94	1170.0	1339.0	22.64	23.23	23.55	1170.0	1339.0	0.47	0.46	0.52
1210.0	1379.0	9.89	9.27	9.18	1210.0	1379.0	23.77	23.12	23.11	1210.0	1379.0	0.64	0.61	0.66
1240.0	1409.0	10.22	9.51	9.39	1240.0	1409.0	22.96	22.53	22.18	1240.0	1409.0	0.77	0.77	0.86
1280.0	1449.0	10.60	9.82	9.75	1280.0	1449.0	20.41	19.70	18.43	1280.0	1449.0	1.03	1.11	1.23
1310.0	1479.0	10.88	10.11	10.14	1310.0	1479.0	19.88	18.90	18.10	1310.0	1479.0	1.28	1.38	1.41
1350.0	1519.0	11.30	10.57	10.58	1350.0	1519.0	18.52	17.89	18.18	1350.0	1519.0	1.40	1.44	1.41
1380.0	1549.0	11.60	10.83	10.82	1380.0	1549.0	18.59	18.02	18.09	1380.0	1549.0	1.44	1.50	1.53

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=832.5MHz (dB)
		@LO (dBm)
		+1
472.5	360.0	10.99
449.4	383.1	9.89
426.3	406.3	9.31
403.1	429.4	9.19
380.0	452.5	9.27
356.9	475.6	8.97
333.8	498.8	8.63
310.6	521.9	8.42
287.5	545.0	8.25
264.4	568.1	8.15
241.3	591.3	8.10
218.1	614.4	7.94
195.0	637.5	7.87
171.9	660.6	8.55
148.8	683.8	8.12
125.6	706.9	7.18
102.5	730.0	6.97
79.4	753.1	6.91
56.3	776.3	6.86
33.1	799.4	6.90
10.0	822.5	6.91
20.7	853.2	6.98
42.0	874.5	6.80
63.4	895.9	6.77
84.7	917.2	6.81
106.0	938.5	7.10
127.4	959.9	7.60
148.7	981.2	7.53
170.1	1002.6	7.36
191.4	1023.9	7.25
212.7	1045.2	7.22
234.1	1066.6	7.30
255.4	1087.9	7.27
287.4	1119.9	7.49
308.8	1141.3	7.88
340.8	1173.3	8.23
362.1	1194.6	8.62
394.1	1226.6	9.22
415.5	1248.0	9.83
447.5	1280.0	10.41

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=816MHz (dB)
		@LO (dBm)
		+1
10.0	826.0	6.97
20.0	836.0	6.97
30.0	846.0	6.96
40.0	856.0	6.87
50.0	866.0	6.82
60.0	876.0	6.81
70.0	886.0	6.75
80.0	896.0	6.74
90.0	906.0	6.77
100.0	916.0	6.81
110.0	926.0	6.89
120.0	936.0	7.05
130.0	946.0	7.36
140.0	956.0	7.63
150.0	966.0	7.60
160.0	976.0	7.62
170.0	986.0	7.46
180.0	996.0	7.41
190.0	1006.0	7.33
200.0	1016.0	7.30
210.0	1026.0	7.30
220.0	1036.0	7.25
230.0	1046.0	7.23
240.0	1056.0	7.29
250.0	1066.0	7.20
260.0	1076.0	7.28
280.0	1096.0	7.37
290.0	1106.0	7.45
310.0	1126.0	7.63
320.0	1136.0	7.82
340.0	1156.0	8.11
350.0	1166.0	8.20
370.0	1186.0	8.42
380.0	1196.0	8.60
400.0	1216.0	9.03
410.0	1226.0	9.32
430.0	1246.0	9.88
440.0	1256.0	10.12
460.0	1276.0	10.40
470.0	1286.0	10.58

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=849MHz (dB)
		@LO (dBm)
		+1
480.0	369.0	10.52
470.0	379.0	10.05
460.0	389.0	9.63
450.0	399.0	9.40
440.0	409.0	9.23
430.0	419.0	9.19
420.0	429.0	9.17
410.0	439.0	9.15
400.0	449.0	9.16
390.0	459.0	9.16
380.0	469.0	9.15
370.0	479.0	9.00
360.0	489.0	8.87
350.0	499.0	8.81
340.0	509.0	8.70
330.0	519.0	8.60
320.0	529.0	8.51
310.0	539.0	8.40
300.0	549.0	8.37
290.0	559.0	8.34
280.0	569.0	8.29
270.0	579.0	8.30
260.0	589.0	8.13
250.0	599.0	8.21
230.0	619.0	8.03
220.0	629.0	7.98
200.0	649.0	7.94
190.0	659.0	8.53
170.0	679.0	8.47
160.0	689.0	7.74
140.0	709.0	7.16
130.0	719.0	7.04
110.0	739.0	6.96
100.0	749.0	6.90
80.0	769.0	6.89
70.0	779.0	6.89
50.0	799.0	6.91
40.0	809.0	6.97
20.0	829.0	6.96
10.0	839.0	6.97

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	-2	+1	+4	-2	+1	+4
349.0	22.68	22.00	21.85	34.95	40.91	37.29
379.0	26.85	26.95	30.41	26.71	28.39	30.50
409.0	24.34	24.81	27.80	23.83	24.97	27.67
439.0	23.22	24.22	26.31	22.70	23.76	25.86
469.0	22.07	23.03	24.67	21.31	22.68	24.51
499.0	20.78	21.37	23.23	19.83	20.82	23.74
529.0	20.00	20.60	23.44	18.88	19.98	27.02
559.0	19.82	20.48	23.32	18.74	20.07	27.36
589.0	19.08	19.85	22.44	19.22	20.85	26.63
619.0	18.00	18.70	21.49	20.22	22.38	27.68
649.0	15.22	15.49	18.68	22.61	25.88	30.37
679.0	15.16	15.55	17.54	18.17	19.38	23.06
709.0	21.39	21.69	23.74	14.17	15.47	18.78
739.0	22.84	23.57	26.42	13.72	15.00	18.33
769.0	22.82	23.60	26.59	13.51	14.75	17.77
799.0	23.52	24.40	26.69	13.39	14.82	18.01
829.0	25.14	26.82	29.83	13.09	14.78	17.97
859.0	25.29	27.01	30.29	12.09	13.84	17.02
889.0	24.26	24.92	27.06	10.62	12.43	15.54
919.0	15.95	16.48	19.05	11.47	13.52	16.61
949.0	12.72	14.88	17.44	18.35	22.93	26.21
979.0	28.40	30.37	30.69	18.31	20.10	23.37
1009.0	24.96	23.74	27.68	12.80	14.88	18.16
1039.0	20.98	23.80	28.83	9.91	12.33	15.26
1069.0	24.75	28.34	33.34	8.70	10.88	13.55
1099.0	30.63	30.45	30.70	7.81	9.66	12.29
1129.0	25.98	27.89	31.64	9.28	10.94	13.49
1159.0	17.18	18.01	19.95	13.29	15.24	18.04
1189.0	21.07	22.18	24.14	15.23	17.36	20.14
1219.0	22.69	24.16	26.31	16.06	18.38	21.21
1249.0	22.61	24.52	26.67	16.48	18.88	21.79
1279.0	22.94	25.44	28.10	16.39	18.70	21.60
1309.0	23.72	26.65	29.76	15.59	17.75	20.65
1339.0	25.72	29.72	34.23	15.04	16.96	19.72
1379.0	26.91	29.26	31.57	13.87	15.57	18.16
1409.0	26.42	28.18	31.07	13.24	14.85	17.40
1449.0	31.99	34.28	38.18	12.30	13.81	16.33
1479.0	36.99	38.79	45.64	11.69	13.19	15.71
1519.0	30.80	31.91	33.05	10.43	11.95	14.52
1549.0	24.74	25.84	27.72	9.77	11.24	13.73

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		-2	+1	+4
180.0	349.0	27.62	26.57	18.48
210.0	379.0	28.64	26.29	17.87
240.0	409.0	29.94	28.75	19.83
270.0	439.0	30.31	26.28	24.66
300.0	469.0	30.56	28.13	24.89
330.0	499.0	28.51	28.11	18.76
360.0	529.0	25.43	22.45	28.97
390.0	559.0	25.32	22.56	31.59
420.0	589.0	26.51	24.03	25.53
450.0	619.0	26.44	24.37	22.24
480.0	649.0	27.47	26.63	21.05
510.0	679.0	21.10	19.63	18.54
540.0	709.0	24.15	23.58	22.50
570.0	739.0	27.84	27.77	27.95
600.0	769.0	30.63	30.76	31.00
630.0	799.0	30.99	31.29	31.36
660.0	829.0	31.24	31.49	31.96
690.0	859.0	39.03	40.11	42.76
720.0	889.0	34.81	34.44	33.38
750.0	919.0	32.14	31.88	30.29
780.0	949.0	31.13	30.58	29.31
810.0	979.0	30.29	30.04	29.40
840.0	1009.0	28.18	27.90	27.58
870.0	1039.0	27.26	27.15	27.14
900.0	1069.0	26.21	26.18	26.16
930.0	1099.0	27.22	27.27	27.26
960.0	1129.0	27.28	27.40	27.72
990.0	1159.0	27.51	27.65	28.19
1020.0	1189.0	28.79	29.16	30.00
1050.0	1219.0	30.95	31.55	32.83
1080.0	1249.0	33.96	34.60	35.10
1110.0	1279.0	35.23	35.99	36.78
1140.0	1309.0	38.08	39.07	39.71
1170.0	1339.0	37.67	37.36	37.41
1210.0	1379.0	37.19	35.86	35.63
1240.0	1409.0	41.78	38.85	38.36
1280.0	1449.0	59.95	47.26	45.84
1310.0	1479.0	41.85	43.55	42.78
1350.0	1519.0	33.86	32.92	31.33
1380.0	1549.0	30.90	29.88	29.02

Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1020MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		-2	+1	+4		-2	+1	+4		-2	+1	+4
180.0	349.0	2.86	2.61	2.46	349.0	5.54	5.61	5.85	10.0	1.59	1.64	1.65
210.0	379.0	2.08	1.99	1.99	379.0	4.70	4.77	5.00	40.0	1.56	1.61	1.62
240.0	409.0	1.65	1.66	1.70	409.0	4.11	4.19	4.44	70.0	1.57	1.62	1.63
270.0	439.0	1.36	1.45	1.44	439.0	3.69	3.77	4.08	100.0	1.54	1.59	1.60
300.0	469.0	1.22	1.34	1.21	469.0	3.44	3.50	3.80	130.0	1.54	1.58	1.59
330.0	499.0	1.13	1.26	1.05	499.0	3.19	3.24	3.46	160.0	1.58	1.62	1.63
360.0	529.0	1.10	1.19	1.11	529.0	3.01	3.04	3.10	180.0	1.63	1.67	1.68
390.0	559.0	1.17	1.20	1.17	559.0	2.85	2.84	2.83	210.0	1.67	1.71	1.72
420.0	589.0	1.27	1.27	1.26	589.0	2.68	2.64	2.62	230.0	1.63	1.66	1.67
450.0	619.0	1.37	1.35	1.39	619.0	2.53	2.48	2.44	260.0	1.64	1.66	1.67
480.0	649.0	1.44	1.39	1.47	649.0	2.37	2.32	2.28	280.0	1.75	1.78	1.78
510.0	679.0	1.43	1.41	1.42	679.0	2.25	2.19	2.14	310.0	1.80	1.82	1.83
540.0	709.0	1.45	1.40	1.40	709.0	2.09	2.04	1.99	330.0	1.79	1.81	1.81
570.0	739.0	1.46	1.39	1.39	739.0	1.96	1.91	1.86	360.0	1.86	1.88	1.88
600.0	769.0	1.44	1.37	1.37	769.0	1.84	1.79	1.75	380.0	1.97	1.99	2.00
630.0	799.0	1.48	1.39	1.39	799.0	1.71	1.68	1.64	410.0	2.07	2.09	2.09
660.0	829.0	1.53	1.45	1.46	829.0	1.60	1.56	1.54	430.0	2.04	2.05	2.05
690.0	859.0	1.53	1.44	1.45	859.0	1.48	1.46	1.46	460.0	2.11	2.12	2.12
720.0	889.0	1.52	1.45	1.47	889.0	1.37	1.36	1.37	480.0	2.24	2.24	2.25
750.0	919.0	1.54	1.48	1.49	919.0	1.27	1.27	1.30	510.0	2.40	2.28	2.35
780.0	949.0	1.44	1.29	1.28	949.0	1.20	1.21	1.25	530.0	2.31	2.31	2.31
810.0	979.0	1.22	1.19	1.18	979.0	1.16	1.18	1.21	560.0	2.41	2.41	2.41
840.0	1009.0	1.30	1.27	1.26	1009.0	1.31	1.30	1.30	580.0	2.53	2.53	2.53
870.0	1039.0	1.37	1.35	1.35	1039.0	1.46	1.43	1.42	610.0	2.60	2.60	2.60
900.0	1069.0	1.50	1.48	1.47	1069.0	1.56	1.51	1.48	630.0	2.68	2.68	2.68
930.0	1099.0	1.63	1.60	1.60	1099.0	1.60	1.54	1.50	660.0	2.79	2.79	2.79
960.0	1129.0	1.61	1.56	1.56	1129.0	1.59	1.53	1.48	680.0	2.78	2.80	2.77
990.0	1159.0	1.63	1.56	1.54	1159.0	1.56	1.51	1.45	710.0	2.88	2.86	2.86
1020.0	1189.0	1.70	1.62	1.61	1189.0	1.52	1.47	1.44	730.0	2.92	2.90	2.89
1050.0	1219.0	1.71	1.61	1.60	1219.0	1.48	1.44	1.41	760.0	2.99	2.97	2.96
1080.0	1249.0	1.89	1.78	1.77	1249.0	1.42	1.39	1.37	780.0	3.06	3.04	3.03
1110.0	1279.0	1.92	1.79	1.77	1279.0	1.38	1.36	1.36	810.0	3.14	3.12	3.11
1140.0	1309.0	1.91	1.77	1.75	1309.0	1.36	1.34	1.33	830.0	3.15	3.13	3.12
1170.0	1339.0	1.89	1.73	1.71	1339.0	1.32	1.31	1.31	860.0	3.19	3.17	3.16
1210.0	1379.0	1.87	1.70	1.69	1379.0	1.29	1.28	1.29	880.0	3.25	3.23	3.22
1240.0	1409.0	1.84	1.66	1.65	1409.0	1.26	1.26	1.27	910.0	3.45	3.44	3.43
1280.0	1449.0	1.85	1.67	1.65	1449.0	1.23	1.22	1.23	930.0	3.48	3.47	3.47
1310.0	1479.0	1.83	1.64	1.59	1479.0	1.20	1.19	1.22	960.0	3.40	3.40	3.40
1350.0	1519.0	1.78	1.56	1.47	1519.0	1.19	1.18	1.19	980.0	3.29	3.30	3.30
1380.0	1549.0	1.76	1.52	1.43	1549.0	1.16	1.15	1.14	1010.0	2.90	2.90	2.90

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	4	4	16	25	29	31	42	28	45	33
1	-	21	+0	33	19	37	58	62	45	47	50	60
2	69	56	65	54	69	54	71	77	80	69	72	78
3	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
4	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
5	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 832.5 MHz; -2.00 dBm.
LO IN: 1011.5 MHz; +1.00 dBm
IF OUT: 179 MHz; -9.19 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	14	14	26	35	39	42	52	39	57	43
1	-	21	+0	33	20	37	59	63	45	48	50	61
2	48	45	55	43	59	44	62	68	72	61	64	71
3	68	72	60	68	59	69	66	84	>91	85	85	83
4	>90	>91	86	85	85	80	>91	82	>91	>91	89	>91
5	>90	>91	>91	>91	>91	89	86	>91	89	>91	>91	>91
6	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
7	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
8	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
10	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 832.5 MHz; 8.00 dBm.
LO IN: 1011.5 MHz; +1.00 dBm
IF OUT: 179 MHz; 0.77 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.