

Frequency Mixer

AMCY-ED12679/1

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=15dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		-3	0	+3			-3	0	+3			-3	0	+3
190.1	359.1	11.28	11.04	13.34	190.1	359.1	13.54	14.96	18.00	190.1	359.1	1.90	1.73	0.56
220.1	389.1	9.74	9.14	9.30	220.1	389.1	16.30	17.73	22.09	220.1	389.1	1.91	1.13	0.62
250.1	419.1	8.84	8.29	8.58	250.1	419.1	17.55	18.71	22.81	250.1	419.1	2.15	1.35	0.69
280.1	449.1	7.91	7.62	8.81	280.1	449.1	18.52	20.88	22.16	280.1	449.1	2.35	1.38	0.23
310.1	479.1	7.58	7.73	8.84	310.1	479.1	20.48	23.88	20.46	310.1	479.1	1.56	1.06	0.62
340.1	509.1	7.12	7.69	8.08	340.1	509.1	20.63	20.07	19.58	340.1	509.1	1.65	1.40	1.02
370.1	539.1	7.02	7.22	7.11	370.1	539.1	21.29	25.74	27.33	370.1	539.1	1.32	0.84	0.71
400.1	569.1	6.90	7.16	7.28	400.1	569.1	23.14	27.74	26.61	400.1	569.1	0.97	0.50	0.56
430.1	599.1	6.90	7.22	7.32	430.1	599.1	23.52	25.26	21.12	430.1	599.1	0.78	0.44	0.96
460.1	629.1	6.99	7.36	7.70	460.1	629.1	24.77	22.11	18.93	460.1	629.1	0.62	0.54	0.96
500.1	669.1	7.06	7.31	8.02	500.1	669.1	31.61	20.70	20.61	500.1	669.1	0.57	0.56	0.56
530.1	699.1	7.36	8.07	8.74	530.1	699.1	22.65	24.28	28.15	530.1	699.1	0.87	0.61	0.46
570.1	739.1	7.20	7.18	7.19	570.1	739.1	28.79	30.10	31.36	570.1	739.1	0.40	0.29	0.29
600.1	769.1	7.10	7.12	7.12	600.1	769.1	29.93	31.36	32.72	600.1	769.1	0.44	0.30	0.23
640.1	809.1	6.77	6.76	6.82	640.1	809.1	27.48	31.59	30.40	640.1	809.1	0.43	0.30	0.31
670.1	839.1	6.57	6.51	6.55	670.1	839.1	27.03	29.20	30.60	670.1	839.1	0.47	0.36	0.37
710.1	879.1	6.83	6.78	6.84	710.1	879.1	25.51	25.38	25.49	710.1	879.1	0.50	0.51	0.46
740.1	909.1	6.96	6.92	6.89	740.1	909.1	26.40	27.91	27.53	740.1	909.1	0.08	0.09	0.11
780.1	949.1	7.02	7.00	6.88	780.1	949.1	30.03	32.22	27.88	780.1	949.1	0.02	0.07	0.19
810.1	979.1	6.85	6.84	6.81	810.1	979.1	30.49	32.11	30.40	810.1	979.1	0.12	0.14	0.19
850.1	1019.1	6.50	6.42	6.30	850.1	1019.1	29.37	31.36	29.37	850.1	1019.1	0.14	0.13	0.17
880.1	1049.1	6.90	7.01	6.84	880.1	1049.1	29.97	30.52	30.24	880.1	1049.1	0.28	0.23	0.29
920.1	1089.1	7.62	7.73	7.70	920.1	1089.1	32.08	33.31	33.35	920.1	1089.1	0.16	0.11	0.08
950.1	1119.1	7.41	7.36	7.27	950.1	1119.1	30.56	32.07	32.14	950.1	1119.1	0.32	0.20	0.18
990.1	1159.1	7.44	7.35	7.29	990.1	1159.1	28.77	29.61	30.04	990.1	1159.1	0.41	0.23	0.18
1020.1	1189.1	7.31	7.22	7.16	1020.1	1189.1	27.67	28.58	29.39	1020.1	1189.1	0.45	0.23	0.20
1060.1	1229.1	7.34	7.19	7.11	1060.1	1229.1	26.04	27.47	28.67	1060.1	1229.1	0.52	0.25	0.21
1090.1	1259.1	7.28	7.03	6.91	1090.1	1259.1	25.92	27.48	28.46	1090.1	1259.1	0.57	0.30	0.26
1130.1	1299.1	7.31	6.97	6.83	1130.1	1299.1	24.64	25.93	26.58	1130.1	1299.1	0.64	0.41	0.37
1160.1	1329.1	7.53	7.12	6.95	1160.1	1329.1	23.26	24.21	24.56	1160.1	1329.1	0.85	0.51	0.47
1200.1	1369.1	7.93	7.50	7.27	1200.1	1369.1	22.72	23.72	24.05	1200.1	1369.1	1.31	0.82	0.71
1230.1	1399.1	8.22	7.80	7.62	1230.1	1399.1	22.98	23.26	23.05	1230.1	1399.1	1.50	0.98	0.76
1270.1	1439.1	8.50	8.10	8.02	1270.1	1439.1	24.00	25.17	26.78	1270.1	1439.1	1.71	1.23	1.01
1300.1	1469.1	8.62	8.28	8.25	1300.1	1469.1	23.20	24.67	26.64	1300.1	1469.1	1.80	1.38	1.20
1340.1	1509.1	8.76	8.54	8.51	1340.1	1509.1	21.43	23.68	24.92	1340.1	1509.1	2.04	1.56	1.47
1370.1	1539.1	8.68	8.53	8.40	1370.1	1539.1	20.44	22.16	22.53	1370.1	1539.1	2.14	1.67	1.85
1410.1	1579.1	8.78	8.85	8.92	1410.1	1579.1	19.62	21.13	22.52	1410.1	1579.1	2.15	1.56	1.70
1440.1	1609.1	9.12	9.49	10.01	1440.1	1609.1	19.29	21.78	23.02	1440.1	1609.1	2.17	1.45	1.28
1480.1	1649.1	9.99	10.69	11.77	1480.1	1649.1	18.98	20.69	20.89	1480.1	1649.1	2.12	1.41	1.04
1510.1	1679.1	10.64	11.28	12.89	1510.1	1679.1	20.65	21.48	21.57	1510.1	1679.1	1.80	1.16	0.26

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=897.5MHz (dB)
		@LO (dBm)
		0
507.4	390.1	10.31
481.2	416.3	9.39
455.0	442.5	8.94
428.9	468.6	8.91
402.7	494.8	9.38
376.5	521.0	8.59
350.3	547.2	7.74
324.2	573.4	7.36
298.0	599.5	7.09
271.8	625.7	7.14
245.6	651.9	7.39
219.4	678.1	7.20
193.3	704.3	7.97
167.1	730.4	6.82
140.9	756.6	6.76
114.7	782.8	7.03
88.5	809.0	7.32
62.4	835.1	7.86
36.2	861.3	9.00
10.0	887.5	16.30
32.2	929.7	9.25
65.4	962.9	7.69
98.6	996.1	7.08
131.9	1029.4	6.68
165.1	1062.6	7.56
198.4	1095.9	7.52
231.6	1129.1	7.22
264.8	1162.3	7.09
298.1	1195.6	7.00
331.3	1228.8	7.08
364.5	1262.0	7.34
397.8	1295.3	7.71
431.0	1328.5	8.11
464.3	1361.8	8.54
497.5	1395.0	8.98
530.7	1428.2	9.31
564.0	1461.5	9.50
597.2	1494.7	9.70
619.4	1516.9	9.87
652.6	1550.1	10.18

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=880.1MHz (dB)
		@LO (dBm)
		0
10.0	890.1	16.40
31.6	911.7	9.33
53.3	933.4	7.77
74.9	955.0	7.52
96.6	976.7	7.25
118.2	998.3	6.83
139.8	1019.9	6.54
150.7	1030.8	6.54
172.3	1052.4	7.15
183.1	1063.2	7.43
204.8	1084.9	7.49
215.6	1095.7	7.49
237.2	1117.3	7.11
248.0	1128.1	7.17
269.7	1149.8	7.01
280.5	1160.6	7.03
302.1	1182.2	6.94
313.0	1193.1	6.93
334.6	1214.7	7.00
345.4	1225.5	7.08
367.1	1247.2	7.18
377.9	1258.0	7.31
399.5	1279.6	7.44
410.3	1290.4	7.61
432.0	1312.1	7.92
442.8	1322.9	8.08
464.4	1344.5	8.28
475.3	1355.4	8.47
496.9	1377.0	8.74
507.7	1387.8	8.87
529.3	1409.4	9.14
540.2	1420.3	9.25
561.8	1441.9	9.41
572.6	1452.7	9.47
594.3	1474.4	9.54
605.1	1485.2	9.65
626.7	1506.8	9.83
637.5	1517.6	9.94
659.2	1539.3	10.20
670.0	1550.1	10.25

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=915.1MHz (dB)
		@LO (dBm)
		0
530.1	385.0	10.79
520.1	395.0	10.29
510.1	405.0	9.85
500.1	415.0	9.54
490.1	425.0	9.30
480.1	435.0	9.16
470.1	445.0	8.98
460.1	455.0	8.99
450.1	465.0	8.91
440.1	475.0	9.11
430.1	485.0	9.18
420.1	495.0	9.50
410.1	505.0	9.60
400.1	515.0	9.23
380.1	535.0	8.29
370.1	545.0	8.06
350.1	565.0	7.68
340.1	575.0	7.52
320.1	595.0	7.33
310.1	605.0	7.22
290.1	625.0	7.26
280.1	635.0	7.31
260.1	655.0	7.46
250.1	665.0	7.45
230.1	685.0	7.26
220.1	695.0	7.35
200.1	715.0	7.44
190.1	725.0	6.99
170.1	745.0	6.83
160.1	755.0	6.86
140.1	775.0	6.98
130.1	785.0	7.01
110.1	805.0	7.26
100.1	815.0	7.32
80.1	835.0	7.62
70.1	845.0	7.74
50.1	865.0	8.08
40.1	875.0	8.63
20.1	895.0	11.52
10.1	905.0	16.32

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	-3	0	+3	-3	0	+3
359.1	27.25	25.59	26.97	37.95	39.93	35.96
389.1	33.69	33.26	36.05	31.15	30.24	28.39
419.1	32.12	32.84	37.46	29.15	28.45	27.72
449.1	31.41	33.48	43.30	27.28	27.04	28.70
479.1	28.25	28.64	44.05	25.03	26.31	32.94
509.1	24.50	23.48	28.43	22.57	22.62	27.16
539.1	22.39	21.99	24.90	19.77	19.71	22.84
569.1	20.32	20.32	22.78	17.71	17.98	20.73
599.1	20.23	21.54	22.68	16.62	18.40	21.69
629.1	20.16	22.36	20.41	15.11	17.42	23.38
669.1	18.36	19.64	20.28	14.23	16.60	20.50
699.1	13.48	13.90	15.16	16.11	17.99	21.78
739.1	16.91	17.20	18.86	14.14	16.03	18.49
769.1	18.64	19.00	20.76	13.67	15.20	17.58
809.1	20.63	21.37	23.48	12.44	13.51	16.04
839.1	22.06	22.98	25.54	11.51	12.55	14.96
879.1	25.69	24.13	24.40	10.52	11.50	13.83
909.1	23.13	22.48	20.85	9.30	10.28	12.66
949.1	17.10	17.50	20.45	8.21	9.14	11.16
979.1	15.92	16.33	18.95	6.29	7.03	8.88
1019.1	16.56	17.43	19.82	3.90	5.04	7.10
1049.1	16.32	18.05	17.91	2.78	4.62	6.77
1089.1	19.55	23.13	24.53	6.02	8.01	10.40
1119.1	20.92	25.56	30.81	6.76	8.32	10.48
1159.1	18.37	19.62	21.02	6.07	7.23	9.26
1189.1	20.29	22.16	23.98	8.19	9.27	11.32
1229.1	21.84	23.54	24.61	11.81	13.03	15.24
1259.1	19.96	21.99	24.01	12.41	13.42	15.63
1299.1	13.14	13.82	15.94	13.32	14.23	16.45
1329.1	11.27	11.39	13.25	13.46	14.36	16.58
1369.1	10.00	9.70	11.04	13.71	14.90	16.78
1399.1	9.79	9.47	10.38	14.25	15.89	18.40
1439.1	10.14	10.19	10.98	15.20	17.16	20.24
1469.1	10.46	10.75	11.78	16.11	18.38	21.67
1509.1	10.93	11.29	12.48	17.24	19.88	23.17
1539.1	11.20	11.50	12.65	18.03	20.97	24.08
1579.1	12.31	13.02	14.52	18.23	21.08	23.74
1609.1	13.48	14.76	16.71	17.63	20.24	23.29
1649.1	15.15	17.28	20.25	16.47	18.74	22.39
1679.1	15.32	17.57	21.06	15.98	18.20	21.95

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		-3	0	+3
190.1	359.1	25.75	20.76	16.77
220.1	389.1	25.95	20.18	15.14
250.1	419.1	26.31	20.28	15.01
280.1	449.1	25.98	18.92	14.42
310.1	479.1	25.73	18.22	15.36
340.1	509.1	31.81	29.65	25.18
370.1	539.1	26.52	18.39	19.54
400.1	569.1	23.14	17.68	15.92
430.1	599.1	22.29	17.53	15.78
460.1	629.1	22.00	17.70	16.75
500.1	669.1	20.98	17.60	17.04
530.1	699.1	26.08	24.13	29.41
570.1	739.1	31.37	29.53	27.36
600.1	769.1	31.05	30.65	29.58
640.1	809.1	30.05	29.81	29.97
670.1	839.1	28.79	28.47	28.67
710.1	879.1	27.28	27.74	28.68
740.1	909.1	28.29	28.44	30.05
780.1	949.1	33.64	32.53	32.45
810.1	979.1	29.57	29.68	29.45
850.1	1019.1	26.40	27.79	30.77
880.1	1049.1	24.21	24.35	29.62
920.1	1089.1	25.41	24.07	26.67
950.1	1119.1	23.23	23.72	24.78
990.1	1159.1	22.51	23.11	23.90
1020.1	1189.1	21.97	22.38	22.90
1060.1	1229.1	22.15	22.40	22.98
1090.1	1259.1	23.01	24.11	25.15
1130.1	1299.1	21.79	22.86	23.80
1160.1	1329.1	20.20	21.15	21.79
1200.1	1369.1	18.06	18.71	19.39
1230.1	1399.1	16.92	17.18	17.62
1270.1	1439.1	16.06	16.01	16.24
1300.1	1469.1	15.76	15.58	15.65
1340.1	1509.1	15.77	15.58	15.66
1370.1	1539.1	15.98	15.89	15.87
1410.1	1579.1	16.29	16.28	16.21
1440.1	1609.1	16.47	16.27	15.89
1480.1	1649.1	16.70	16.52	16.41
1510.1	1679.1	16.97	17.30	17.56

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RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=84MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		-3	0	+3		-3	0	+3		-3	0	+3
190.1	359.1	2.77	2.50	2.42	359.1	5.25	5.27	5.36	10.0	12.61	12.44	12.44
220.1	389.1	2.05	1.85	1.77	389.1	4.40	4.43	4.50	30.0	4.43	4.39	4.38
250.1	419.1	1.58	1.45	1.47	419.1	3.79	3.81	3.88	50.0	2.89	2.92	2.92
280.1	449.1	1.25	1.20	1.31	449.1	3.29	3.34	3.47	70.0	2.34	2.39	2.39
310.1	479.1	1.04	1.07	1.19	479.1	3.01	3.07	3.23	90.0	2.18	2.25	2.25
340.1	509.1	1.14	1.17	1.14	509.1	2.65	2.67	2.81	110.0	1.98	2.06	2.05
370.1	539.1	1.31	1.43	1.44	539.1	2.44	2.46	2.63	130.0	1.92	2.00	2.00
400.1	569.1	1.44	1.54	1.50	569.1	2.31	2.38	2.62	150.0	1.90	1.98	1.98
430.1	599.1	1.56	1.62	1.56	599.1	2.26	2.36	2.47	170.0	1.74	1.81	1.81
460.1	629.1	1.65	1.65	1.61	629.1	2.26	2.29	2.30	190.0	1.74	1.81	1.81
500.1	669.1	1.78	1.80	1.68	669.1	2.22	2.15	2.08	210.0	1.72	1.79	1.80
530.1	699.1	1.75	1.67	1.53	699.1	2.17	2.06	2.00	230.0	1.67	1.74	1.74
570.1	739.1	1.75	1.77	1.78	739.1	2.05	1.94	1.95	250.0	1.67	1.73	1.74
600.1	769.1	1.70	1.71	1.72	769.1	1.96	1.88	1.87	270.0	1.63	1.68	1.69
640.1	809.1	1.61	1.59	1.58	809.1	1.87	1.82	1.78	290.0	1.66	1.71	1.73
670.1	839.1	1.62	1.59	1.57	839.1	1.78	1.74	1.69	310.0	1.71	1.76	1.78
710.1	879.1	1.66	1.63	1.63	879.1	1.65	1.62	1.57	330.0	1.63	1.67	1.69
740.1	909.1	1.56	1.53	1.55	909.1	1.53	1.51	1.47	350.0	1.74	1.78	1.80
780.1	949.1	1.31	1.25	1.23	949.1	1.35	1.34	1.34	370.0	1.77	1.81	1.82
810.1	979.1	1.20	1.15	1.15	979.1	1.18	1.18	1.21	390.0	1.81	1.85	1.86
850.1	1019.1	1.19	1.13	1.13	1019.1	1.09	1.12	1.15	410.0	1.94	1.97	1.99
880.1	1049.1	1.09	1.04	1.03	1049.1	1.21	1.22	1.24	440.0	2.03	2.07	2.07
920.1	1089.1	1.20	1.23	1.24	1089.1	1.43	1.41	1.39	460.0	2.01	2.05	2.05
950.1	1119.1	1.27	1.26	1.26	1119.1	1.53	1.49	1.45	490.0	2.11	2.16	2.15
990.1	1159.1	1.35	1.35	1.35	1159.1	1.64	1.59	1.53	510.0	2.24	2.29	2.27
1020.1	1189.1	1.43	1.42	1.41	1189.1	1.75	1.68	1.60	540.0	2.34	2.39	2.36
1060.1	1229.1	1.57	1.55	1.54	1229.1	1.76	1.72	1.60	560.0	2.34	2.38	2.35
1090.1	1259.1	1.62	1.57	1.54	1259.1	1.72	1.68	1.56	590.0	2.42	2.46	2.42
1130.1	1299.1	1.62	1.55	1.51	1299.1	1.70	1.68	1.56	610.0	2.56	2.59	2.56
1160.1	1329.1	1.60	1.51	1.46	1329.1	1.65	1.63	1.52	640.0	2.67	2.69	2.65
1200.1	1369.1	1.55	1.43	1.36	1369.1	1.60	1.57	1.47	660.0	2.65	2.66	2.62
1230.1	1399.1	1.49	1.40	1.32	1399.1	1.54	1.52	1.44	690.0	2.80	2.81	2.77
1270.1	1439.1	1.40	1.34	1.33	1439.1	1.51	1.48	1.42	710.0	3.04	3.03	3.00
1300.1	1469.1	1.35	1.31	1.31	1469.1	1.49	1.46	1.41	740.0	3.14	3.14	3.10
1340.1	1509.1	1.29	1.26	1.27	1509.1	1.49	1.47	1.42	760.0	3.19	3.17	3.13
1370.1	1539.1	1.26	1.23	1.28	1539.1	1.51	1.48	1.42	790.0	3.42	3.40	3.35
1410.1	1579.1	1.26	1.27	1.38	1579.1	1.50	1.47	1.40	810.0	3.61	3.58	3.53
1440.1	1609.1	1.31	1.37	1.54	1609.1	1.50	1.46	1.39	840.0	3.83	3.80	3.74
1480.1	1649.1	1.44	1.54	1.76	1649.1	1.49	1.45	1.35	860.0	3.91	3.88	3.82
1510.1	1679.1	1.59	1.67	1.91	1679.1	1.49	1.45	1.35	890.0	4.11	4.09	4.03

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Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)											
	0	-	-	+1	5	16	20	22	34	21	35	36	39
	1	-	15	+0	21	19	39	52	41	42	54	48	48
	2	61	71	64	54	70	56	71	81	68	73	75	78
	3	>90	81	72	81	74	>83	76	>83	>83	>83	>83	>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: 897.50 MHz; 0.00 dBm.
LO IN: 1066.50 MHz; 0.00 dBm
IF OUT: 169.00 MHz; -7.23 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)											
	0	-	-	8	15	26	31	32	45	32	45	47	51
	1	-	15	+0	21	19	40	50	42	42	54	49	49
	2	42	62	56	45	58	46	61	70	58	63	66	70
	3	65	62	53	62	55	69	58	76	77	83	78	80
	4	90	85	75	83	84	83	90	84	>93	>93	>93	>93
	5	>90	>93	92	86	>93	>93	>93	>93	>93	>93	>93	>93
	6	>90	>93	>93	>93	>93	>93	90	>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: 897.50 MHz; 10.00 dBm.
LO IN: 1066.50 MHz; 0.00 dBm
IF OUT: 169.00 MHz; +2.71 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.