

Frequency Mixer

AMCY-ED12566/1

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)		
		-2	+1	+4			-2	+1	+4			-2	+1	+4
190.10	359.10	12.17	11.81	13.63	190.10	359.10	12.95	14.41	16.24	190.10	359.10	0.36	0.18	-0.56
220.10	389.10	10.36	9.68	10.05	220.10	389.10	15.97	17.86	21.06	220.10	389.10	0.68	0.18	-0.15
250.10	419.10	9.36	8.91	9.70	250.10	419.10	18.05	21.00	20.61	250.10	419.10	1.18	0.63	-0.03
280.10	449.10	8.35	8.69	10.08	280.10	449.10	20.99	24.09	17.63	280.10	449.10	1.34	0.37	-0.43
310.10	479.10	8.00	8.95	9.30	310.10	479.10	25.85	20.72	20.28	310.10	479.10	1.01	0.71	0.07
340.10	509.10	7.64	8.63	7.92	340.10	509.10	20.97	20.69	19.20	340.10	509.10	1.30	1.03	1.21
370.10	539.10	7.33	7.45	7.29	370.10	539.10	23.87	26.58	24.60	370.10	539.10	0.91	0.56	1.00
400.10	569.10	7.14	7.29	7.34	400.10	569.10	25.51	27.49	21.78	400.10	569.10	0.65	0.49	0.78
430.10	599.10	7.11	7.29	7.62	430.10	599.10	25.49	24.84	21.46	430.10	599.10	0.54	0.47	0.84
460.10	629.10	7.21	7.53	8.20	460.10	629.10	25.27	22.87	20.33	460.10	629.10	0.42	0.54	0.34
500.10	669.10	7.28	7.92	8.42	500.10	669.10	29.77	25.09	18.77	500.10	669.10	0.43	0.28	0.92
530.10	699.10	7.57	8.89	9.00	530.10	699.10	23.04	24.82	22.46	530.10	699.10	0.60	0.44	0.56
570.10	739.10	7.25	7.29	7.32	570.10	739.10	30.91	32.21	32.65	570.10	739.10	0.26	0.23	0.24
600.10	769.10	7.06	7.09	7.12	600.10	769.10	31.52	33.14	34.35	600.10	769.10	0.24	0.20	0.17
640.10	809.10	6.68	6.68	6.76	640.10	809.10	27.88	29.18	28.51	640.10	809.10	0.28	0.21	0.18
670.10	839.10	6.65	6.62	6.68	670.10	839.10	27.43	29.29	31.58	670.10	839.10	0.32	0.28	0.26
710.10	879.10	6.75	6.70	6.70	710.10	879.10	27.19	27.38	28.49	710.10	879.10	0.23	0.25	0.26
740.10	909.10	6.71	6.64	6.63	740.10	909.10	29.25	30.90	30.93	740.10	909.10	0.04	0.04	0.05
780.10	949.10	6.45	6.37	6.40	780.10	949.10	27.22	28.81	30.23	780.10	949.10	-0.10	-0.08	-0.09
810.10	979.10	7.94	8.39	8.77	810.10	979.10	23.60	25.43	28.30	810.10	979.10	-0.25	-0.22	-0.25
850.10	1019.10	7.62	7.64	7.71	850.10	1019.10	34.19	35.77	35.51	850.10	1019.10	0.11	0.08	0.08
880.10	1049.10	7.30	7.27	7.30	880.10	1049.10	36.27	36.59	35.58	880.10	1049.10	0.08	0.07	0.08
920.10	1089.10	7.46	7.36	7.28	920.10	1089.10	32.60	32.82	32.99	920.10	1089.10	0.21	0.18	0.18
950.10	1119.10	7.39	7.31	7.25	950.10	1119.10	29.70	30.52	31.32	950.10	1119.10	0.26	0.22	0.20
990.10	1159.10	7.57	7.44	7.38	990.10	1159.10	30.41	31.93	32.69	990.10	1159.10	0.24	0.18	0.15
1020.10	1189.10	7.46	7.30	7.24	1020.10	1189.10	29.25	30.56	31.57	1020.10	1189.10	0.31	0.22	0.18
1060.10	1229.10	7.51	7.29	7.20	1060.10	1229.10	26.08	27.76	28.88	1060.10	1229.10	0.55	0.41	0.36
1090.10	1259.10	7.49	7.21	7.09	1090.10	1259.10	25.04	26.62	27.26	1090.10	1259.10	0.54	0.45	0.38
1130.10	1299.10	7.51	7.17	7.07	1130.10	1299.10	25.29	26.61	27.16	1130.10	1299.10	0.41	0.36	0.32
1160.10	1329.10	7.77	7.36	7.25	1160.10	1329.10	24.69	26.20	26.39	1160.10	1329.10	0.45	0.37	0.34
1200.10	1369.10	8.02	7.58	7.46	1200.10	1369.10	24.66	25.15	25.12	1200.10	1369.10	0.69	0.52	0.50
1230.10	1399.10	8.27	7.82	7.67	1230.10	1399.10	24.95	25.31	24.69	1230.10	1399.10	0.70	0.49	0.43
1270.10	1439.10	8.58	8.19	8.05	1270.10	1439.10	26.58	27.37	24.26	1270.10	1439.10	0.86	0.61	0.49
1300.10	1469.10	8.72	8.39	8.30	1300.10	1469.10	25.36	27.84	25.68	1300.10	1469.10	1.00	0.79	0.80
1340.10	1509.10	8.83	8.60	8.58	1340.10	1509.10	23.17	25.37	22.95	1340.10	1509.10	1.28	1.04	1.10
1370.10	1539.10	8.64	8.44	8.51	1370.10	1539.10	21.45	23.24	23.41	1370.10	1539.10	1.61	1.39	1.54
1410.10	1579.10	8.55	8.36	8.57	1410.10	1579.10	19.72	20.78	20.17	1410.10	1579.10	1.95	1.85	2.11
1440.10	1609.10	8.80	8.81	9.51	1440.10	1609.10	18.78	20.13	21.38	1440.10	1609.10	2.04	1.89	1.79
1480.10	1649.10	9.59	10.04	11.41	1480.10	1649.10	19.10	21.00	21.94	1480.10	1649.10	1.92	1.64	1.14
1510.10	1679.10	10.24	10.62	12.06	1510.10	1679.10	20.26	22.76	23.08	1510.10	1679.10	1.51	1.26	0.68

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=897.5MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=880.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=915.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+1			+1			+1
507.40	390.10	11.11	10.00	890.10	17.96	530.10	385.00	11.56
481.22	416.28	10.28	31.64	911.74	10.07	520.10	395.00	11.03
455.04	442.46	10.15	53.28	933.38	7.96	510.10	405.00	10.61
428.86	468.64	10.37	74.92	955.02	7.22	500.10	415.00	10.35
402.68	494.82	10.71	96.56	976.66	8.14	490.10	425.00	10.27
376.51	520.99	9.41	118.20	998.30	8.27	480.10	435.00	10.36
350.33	547.17	8.28	139.84	1019.94	7.70	470.10	445.00	10.25
324.15	573.35	7.87	150.66	1030.76	7.55	460.10	455.00	10.34
297.97	599.53	7.60	172.30	1052.40	7.27	450.10	465.00	10.33
271.79	625.71	7.77	183.11	1063.21	7.18	440.10	475.00	10.48
245.61	651.89	8.34	204.75	1084.85	7.15	430.10	485.00	10.29
219.43	678.07	7.77	215.57	1095.67	7.17	420.10	495.00	10.76
193.25	704.25	8.55	237.21	1117.31	7.03	410.10	505.00	10.95
167.07	730.43	7.12	248.03	1128.13	7.14	400.10	515.00	10.28
140.89	756.61	6.98	269.67	1149.77	7.18	380.10	535.00	8.82
114.72	782.78	7.23	280.49	1160.59	7.22	370.10	545.00	8.55
88.54	808.96	7.53	302.13	1182.23	7.18	350.10	565.00	8.17
62.36	835.14	8.08	312.95	1193.05	7.21	340.10	575.00	7.99
36.18	861.32	9.66	334.59	1214.69	7.33	320.10	595.00	7.81
10.00	887.50	17.91	345.41	1225.51	7.43	310.10	605.00	7.70
32.16	929.66	9.99	367.05	1247.15	7.59	290.10	625.00	7.83
65.40	962.90	7.54	377.87	1257.97	7.71	280.10	635.00	8.00
98.63	996.13	8.44	399.51	1279.61	7.86	260.10	655.00	8.56
131.87	1029.37	7.69	410.33	1290.43	8.01	250.10	665.00	8.56
165.11	1062.61	7.32	431.97	1312.07	8.30	230.10	685.00	7.71
198.35	1095.85	7.22	442.79	1322.89	8.44	220.10	695.00	8.55
231.59	1129.09	7.21	464.43	1344.53	8.64	200.10	715.00	7.78
264.82	1162.32	7.27	475.25	1355.35	8.80	190.10	725.00	7.26
298.06	1195.56	7.26	496.89	1376.99	9.05	170.10	745.00	7.02
331.30	1228.80	7.43	507.70	1387.80	9.16	160.10	755.00	7.04
364.54	1262.04	7.73	529.34	1409.44	9.50	140.10	775.00	7.12
397.78	1295.28	8.10	540.16	1420.26	9.67	130.10	785.00	7.17
431.01	1328.51	8.47	561.80	1441.90	10.04	110.10	805.00	7.38
464.25	1361.75	8.81	572.62	1452.72	10.18	100.10	815.00	7.44
497.49	1394.99	9.24	594.26	1474.36	10.39	80.10	835.00	7.73
530.73	1428.23	9.79	605.08	1485.18	10.53	70.10	845.00	7.86
563.97	1461.47	10.29	626.72	1506.82	10.70	50.10	865.00	8.43
597.20	1494.70	10.59	637.54	1517.64	10.79	40.10	875.00	9.17
619.36	1516.86	10.76	659.18	1539.28	11.05	20.10	895.00	12.69
652.60	1550.10	11.07	670.00	1550.10	11.05	10.10	905.00	17.89

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Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	-2	+1	+4	-2	+1	+4			-2	+1	+4
359.10	26.77	25.41	27.09	33.37	33.05	31.57	190.10	359.10	26.51	20.84	16.37
389.10	31.06	30.72	32.82	29.17	28.24	27.47	220.10	389.10	26.64	20.15	15.48
419.10	31.41	33.66	36.96	27.43	26.56	26.87	250.10	419.10	26.23	19.03	15.66
449.10	31.65	38.78	35.21	25.76	25.29	27.87	280.10	449.10	24.94	17.04	15.84
479.10	27.34	32.09	32.11	23.09	23.96	28.39	310.10	479.10	25.15	16.98	16.26
509.10	24.22	23.75	29.07	21.38	21.93	29.12	340.10	509.10	33.51	28.18	25.23
539.10	22.15	22.51	26.96	19.54	20.46	25.82	370.10	539.10	24.43	19.76	25.15
569.10	20.80	21.63	25.21	18.16	19.37	24.24	400.10	569.10	22.30	18.65	18.45
599.10	19.75	20.71	24.62	17.84	19.41	25.14	430.10	599.10	21.80	18.55	19.43
629.10	20.09	20.79	22.98	16.93	19.01	26.32	460.10	629.10	21.36	19.48	23.21
669.10	16.39	17.17	19.24	17.90	22.96	27.85	500.10	669.10	22.00	16.82	15.08
699.10	13.13	14.09	17.19	19.73	23.97	24.61	530.10	699.10	30.13	36.53	23.70
739.10	17.60	19.01	21.00	13.99	16.14	18.31	570.10	739.10	30.83	28.60	27.20
769.10	18.87	20.15	22.26	13.91	15.79	18.15	600.10	769.10	32.56	31.26	30.48
809.10	19.24	20.02	21.81	12.83	14.55	17.33	640.10	809.10	31.47	31.47	31.69
839.10	19.56	20.88	23.10	11.87	13.41	16.10	670.10	839.10	30.56	30.99	31.35
879.10	19.66	19.37	20.90	11.66	13.09	15.67	710.10	879.10	31.23	33.42	35.11
909.10	17.29	16.62	17.35	12.61	14.05	16.61	740.10	909.10	29.14	29.86	30.55
949.10	8.13	9.04	11.36	11.73	13.08	16.10	780.10	949.10	28.09	28.25	28.58
979.10	8.21	10.52	12.53	17.31	18.64	22.15	810.10	979.10	36.27	34.59	31.44
1019.10	14.01	15.27	18.97	8.17	10.07	12.96	850.10	1019.10	28.93	32.21	35.49
1049.10	15.05	17.85	24.08	7.33	9.48	12.57	880.10	1049.10	25.16	31.14	46.96
1089.10	18.73	22.61	27.89	6.64	8.51	11.57	920.10	1089.10	21.05	23.14	26.56
1119.10	19.94	21.29	22.85	6.16	8.07	10.91	950.10	1119.10	22.38	23.92	24.59
1159.10	16.27	18.03	20.17	10.13	12.19	14.66	990.10	1159.10	22.04	22.62	22.91
1189.10	19.35	21.04	22.82	13.57	15.81	18.23	1020.10	1189.10	21.68	22.08	22.17
1229.10	19.77	21.70	23.57	16.39	18.83	21.28	1060.10	1229.10	21.98	22.24	22.26
1259.10	18.57	20.62	23.03	15.60	17.65	20.00	1090.10	1259.10	25.14	26.07	26.47
1299.10	14.87	16.25	18.50	15.14	17.10	19.60	1130.10	1299.10	24.83	25.77	25.95
1329.10	14.20	15.32	17.50	14.86	16.62	19.02	1160.10	1329.10	21.95	22.87	23.09
1369.10	12.80	13.10	14.94	14.96	16.80	19.29	1200.10	1369.10	18.82	19.55	19.85
1399.10	12.19	12.59	14.30	15.20	17.01	19.68	1230.10	1399.10	17.50	17.96	18.26
1439.10	11.87	12.61	14.14	15.83	17.69	20.59	1270.10	1439.10	16.70	16.79	16.97
1469.10	11.95	12.90	14.62	16.63	18.64	21.91	1300.10	1469.10	16.33	16.28	16.40
1509.10	12.33	13.32	15.41	17.85	19.87	22.96	1340.10	1509.10	16.37	16.30	16.43
1539.10	12.13	13.06	15.34	19.21	21.40	24.30	1370.10	1539.10	16.47	16.37	16.36
1579.10	13.01	13.71	15.75	21.49	24.79	28.33	1410.10	1579.10	16.63	16.46	16.19
1609.10	13.85	14.61	17.35	21.44	25.46	32.11	1440.10	1609.10	17.02	17.00	16.74
1649.10	16.40	18.20	22.23	19.26	22.13	26.68	1480.10	1649.10	17.48	17.74	17.64
1679.10	18.12	20.29	24.90	17.80	20.03	23.42	1510.10	1679.10	17.61	18.24	18.40

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=1084MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		-2	+1	+4		-2	+1	+4		-2	+1	+4
190.10	359.10	3.12	2.74	2.61	359.10	5.02	5.06	5.17	10.00	12.09	12.01	12.01
220.10	389.10	2.33	2.02	1.90	389.10	4.30	4.34	4.44	30.00	5.13	5.09	5.07
250.10	419.10	1.77	1.56	1.53	419.10	3.76	3.81	3.90	50.00	3.06	3.04	3.04
280.10	449.10	1.42	1.28	1.30	449.10	3.30	3.39	3.52	70.00	2.33	2.33	2.32
310.10	479.10	1.24	1.11	1.14	479.10	3.01	3.09	3.29	90.00	2.04	2.05	2.05
340.10	509.10	1.20	1.10	1.10	509.10	2.71	2.74	2.94	110.00	1.75	1.77	1.76
370.10	539.10	1.28	1.33	1.28	539.10	2.52	2.57	2.75	130.00	1.67	1.69	1.69
400.10	569.10	1.40	1.43	1.42	569.10	2.39	2.50	2.64	150.00	1.62	1.64	1.64
430.10	599.10	1.56	1.55	1.64	599.10	2.34	2.45	2.46	170.00	1.46	1.48	1.48
460.10	629.10	1.68	1.68	1.68	629.10	2.28	2.31	2.28	190.00	1.44	1.47	1.48
500.10	669.10	1.76	1.65	1.77	669.10	2.23	2.16	2.11	210.00	1.42	1.46	1.47
530.10	699.10	1.71	1.55	1.55	699.10	2.13	2.03	2.02	230.00	1.39	1.42	1.43
570.10	739.10	1.67	1.67	1.67	739.10	2.07	1.96	2.00	250.00	1.40	1.44	1.45
600.10	769.10	1.62	1.61	1.61	769.10	2.02	1.92	1.92	270.00	1.39	1.42	1.44
640.10	809.10	1.58	1.54	1.52	809.10	1.91	1.85	1.82	290.00	1.43	1.47	1.48
670.10	839.10	1.58	1.54	1.52	839.10	1.85	1.80	1.75	310.00	1.51	1.55	1.57
710.10	879.10	1.57	1.55	1.56	879.10	1.73	1.68	1.64	330.00	1.46	1.49	1.51
740.10	909.10	1.48	1.45	1.47	909.10	1.60	1.57	1.54	350.00	1.58	1.62	1.64
780.10	949.10	1.53	1.48	1.51	949.10	1.38	1.37	1.38	370.00	1.65	1.68	1.69
810.10	979.10	1.32	1.12	1.11	979.10	1.26	1.26	1.29	390.00	1.68	1.71	1.73
850.10	1019.10	1.14	1.15	1.14	1019.10	1.17	1.19	1.20	410.00	1.82	1.85	1.87
880.10	1049.10	1.23	1.20	1.17	1049.10	1.29	1.29	1.27	440.00	1.93	1.96	1.97
920.10	1089.10	1.41	1.40	1.40	1089.10	1.45	1.41	1.38	460.00	1.92	1.94	1.95
950.10	1119.10	1.55	1.53	1.53	1119.10	1.55	1.49	1.44	490.00	2.04	2.05	2.06
990.10	1159.10	1.69	1.67	1.67	1159.10	1.66	1.58	1.52	510.00	2.18	2.19	2.19
1020.10	1189.10	1.80	1.78	1.77	1189.10	1.72	1.62	1.54	540.00	2.32	2.33	2.33
1060.10	1229.10	1.74	1.70	1.68	1229.10	1.76	1.64	1.54	560.00	2.35	2.36	2.35
1090.10	1259.10	1.86	1.80	1.77	1259.10	1.81	1.66	1.54	590.00	2.47	2.48	2.47
1130.10	1299.10	1.81	1.72	1.70	1299.10	1.79	1.66	1.53	610.00	2.67	2.67	2.67
1160.10	1329.10	1.72	1.62	1.60	1329.10	1.75	1.64	1.52	640.00	2.88	2.88	2.88
1200.10	1369.10	1.58	1.46	1.44	1369.10	1.68	1.58	1.47	660.00	2.94	2.94	2.94
1230.10	1399.10	1.52	1.41	1.38	1399.10	1.63	1.54	1.44	690.00	3.11	3.12	3.13
1270.10	1439.10	1.48	1.40	1.39	1439.10	1.55	1.48	1.41	710.00	3.33	3.34	3.35
1300.10	1469.10	1.48	1.43	1.44	1469.10	1.52	1.45	1.39	740.00	3.51	3.52	3.53
1340.10	1509.10	1.45	1.41	1.40	1509.10	1.49	1.42	1.37	760.00	3.59	3.60	3.62
1370.10	1539.10	1.43	1.38	1.37	1539.10	1.48	1.42	1.36	790.00	3.86	3.88	3.92
1410.10	1579.10	1.40	1.36	1.38	1579.10	1.48	1.42	1.36	810.00	4.08	4.09	4.15
1440.10	1609.10	1.44	1.40	1.47	1609.10	1.51	1.44	1.36	840.00	4.32	4.35	4.41
1480.10	1649.10	1.53	1.54	1.70	1649.10	1.53	1.46	1.36	860.00	4.42	4.44	4.51
1510.10	1679.10	1.68	1.71	1.87	1679.10	1.53	1.46	1.36	890.00	4.62	4.66	4.72

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	6	19	27	36	34	23	39	37	37
1	-	19	+0	25	20	39	45	51	45	59	55	58
2	61	61	56	45	59	47	65	64	62	61	69	74
3	>90	78	75	73	75	78	79	>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: 897.5 MHz; 0.00 dBm.
LO IN: 1066.5 MHz; +1.00 dBm
IF OUT: 169 MHz; -7.22 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	16	28	40	45	40	34	50	49	48
1	-	19	+0	25	21	39	45	50	45	60	56	58
2	42	49	45	35	47	37	54	54	52	52	60	66
3	65	56	53	52	51	57	55	64	74	62	67	71
4	>90	71	63	65	63	60	68	66	76	78	75	90
5	>90	81	80	72	78	77	79	80	83	83	86	>93
6	>90	92	89	>93	87	>93	84	81	>93	>93	>93	>93
7	>90	>93	>93	>93	>93	>93	90	91	>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: 897.5 MHz; 10.00 dBm.
LO IN: 1066.5 MHz; +1.00 dBm
IF OUT: 169 MHz; 2.74 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.