

Frequency Mixer

AMCY-ED12781/1

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	-2	+1	+4			
106.00	275.00	12.82	11.15	10.06	106.00	275.00	14.14	16.41	18.38	106.00	275.00	-0.61	-0.08	0.26
146.00	315.00	7.92	7.84	7.96	146.00	315.00	24.53	26.43	33.08	146.00	315.00	0.19	0.14	0.13
186.00	355.00	7.72	7.64	7.68	186.00	355.00	20.13	22.07	23.72	186.00	355.00	0.72	0.46	0.30
226.00	395.00	7.68	7.43	7.33	226.00	395.00	20.59	22.24	24.12	226.00	395.00	0.81	0.51	0.39
266.00	435.00	7.57	7.29	7.42	266.00	435.00	20.93	22.53	26.71	266.00	435.00	0.97	0.64	0.40
306.00	475.00	7.53	7.31	7.43	306.00	475.00	23.15	25.43	25.77	306.00	475.00	0.61	0.44	0.33
346.00	515.00	7.96	7.97	8.40	346.00	515.00	31.61	31.35	28.09	346.00	515.00	0.38	0.28	0.22
386.00	555.00	7.70	7.66	8.16	386.00	555.00	26.67	28.52	23.28	386.00	555.00	0.24	0.28	0.85
426.00	595.00	7.48	7.37	7.98	426.00	595.00	25.34	27.69	22.58	426.00	595.00	0.59	0.72	0.98
466.00	635.00	7.67	7.44	7.48	466.00	635.00	24.25	24.78	20.54	466.00	635.00	0.39	0.39	0.45
506.00	675.00	7.70	7.47	7.50	506.00	675.00	21.43	25.41	19.21	506.00	675.00	0.60	0.46	0.36
546.00	715.00	7.78	7.55	7.55	546.00	715.00	19.69	20.73	22.19	546.00	715.00	0.25	0.21	0.22
586.00	755.00	7.98	7.82	7.84	586.00	755.00	20.80	23.97	27.33	586.00	755.00	0.06	0.10	0.09
626.00	795.00	8.15	8.09	8.15	626.00	795.00	26.20	27.59	29.60	626.00	795.00	0.41	0.34	0.25
666.00	835.00	7.95	7.83	7.84	666.00	835.00	27.49	28.44	29.57	666.00	835.00	0.35	0.31	0.27
706.00	875.00	7.88	7.78	7.85	706.00	875.00	27.59	27.92	28.05	706.00	875.00	0.33	0.31	0.31
746.00	915.00	7.93	7.89	8.06	746.00	915.00	27.70	30.06	32.32	746.00	915.00	0.37	0.21	0.15
786.00	955.00	7.87	7.86	7.94	786.00	955.00	29.63	32.20	32.98	786.00	955.00	0.23	0.14	0.12
826.00	995.00	7.69	7.66	7.63	826.00	995.00	28.79	30.20	30.78	826.00	995.00	0.27	0.19	0.16
866.00	1035.00	7.72	7.68	7.68	866.00	1035.00	29.06	30.46	31.07	866.00	1035.00	0.28	0.21	0.19
906.00	1075.00	7.93	7.90	7.92	906.00	1075.00	30.64	32.17	32.52	906.00	1075.00	0.24	0.18	0.16
936.00	1105.00	7.93	7.86	7.88	936.00	1105.00	30.37	31.69	32.58	936.00	1105.00	0.30	0.21	0.18
976.00	1145.00	7.94	7.79	7.75	976.00	1145.00	28.44	28.64	29.07	976.00	1145.00	0.42	0.31	0.27
1006.00	1175.00	8.00	7.84	7.78	1006.00	1175.00	27.96	28.67	28.97	1006.00	1175.00	0.50	0.34	0.29
1046.00	1215.00	8.08	7.93	7.88	1046.00	1215.00	24.74	25.59	25.78	1046.00	1215.00	0.68	0.42	0.32
1076.00	1245.00	8.34	8.24	8.25	1076.00	1245.00	23.73	24.94	26.20	1076.00	1245.00	0.66	0.40	0.26
1116.00	1285.00	8.85	8.78	8.78	1116.00	1285.00	25.57	27.91	29.48	1116.00	1285.00	0.57	0.34	0.23
1146.00	1315.00	9.16	9.10	9.11	1146.00	1315.00	25.98	29.73	31.30	1146.00	1315.00	0.58	0.34	0.23
1186.00	1355.00	9.26	9.01	8.95	1186.00	1355.00	24.74	25.72	27.13	1186.00	1355.00	0.64	0.52	0.40
1216.00	1385.00	9.30	8.98	8.85	1216.00	1385.00	24.62	27.09	28.07	1216.00	1385.00	0.66	0.49	0.40
1256.00	1425.00	9.28	8.87	8.70	1256.00	1425.00	21.51	24.22	26.40	1256.00	1425.00	1.12	0.89	0.63
1286.00	1455.00	9.43	8.92	8.72	1286.00	1455.00	20.85	23.91	26.58	1286.00	1455.00	1.33	1.03	0.66
1326.00	1495.00	9.87	9.37	9.16	1326.00	1495.00	22.76	24.85	26.76	1326.00	1495.00	0.87	0.73	0.53
1356.00	1525.00	10.57	9.89	9.57	1356.00	1525.00	23.32	24.48	25.98	1356.00	1525.00	0.77	0.79	0.65
1396.00	1565.00	9.78	9.36	9.16	1396.00	1565.00	23.63	24.21	24.65	1396.00	1565.00	0.63	0.55	0.46
1426.00	1595.00	9.66	9.35	9.22	1426.00	1595.00	24.48	26.21	27.54	1426.00	1595.00	0.61	0.49	0.39
1466.00	1635.00	9.77	9.51	9.41	1466.00	1635.00	24.21	26.32	27.91	1466.00	1635.00	0.60	0.50	0.39
1496.00	1665.00	9.91	9.68	9.58	1496.00	1665.00	24.82	26.72	28.28	1496.00	1665.00	0.53	0.43	0.34
1536.00	1705.00	10.57	10.39	10.32	1536.00	1705.00	26.33	28.16	29.31	1536.00	1705.00	0.37	0.29	0.23
1566.00	1735.00	11.73	11.61	11.58	1566.00	1735.00	28.23	29.70	30.12	1566.00	1735.00	0.17	0.14	0.11

REV. X2

AMCY-ED12781/1

101012

Page 1 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=791.5MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=776MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=807MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+1			+1			+1
505.50	286.00	10.40	10.00	786.00	8.32	520.00	287.00	10.27
482.27	309.23	8.30	30.00	806.00	8.10	510.00	297.00	9.24
459.05	332.45	8.01	50.00	826.00	7.69	500.00	307.00	8.66
435.82	355.68	8.08	70.00	846.00	7.63	490.00	317.00	8.23
412.59	378.91	8.22	90.00	866.00	7.63	480.00	327.00	8.20
389.37	402.13	8.57	110.00	886.00	7.71	470.00	337.00	8.17
366.14	425.36	8.83	130.00	906.00	7.71	460.00	347.00	8.14
342.91	448.59	8.86	150.00	926.00	7.74	450.00	357.00	8.25
319.69	471.81	8.60	170.00	946.00	7.86	440.00	367.00	8.25
296.46	495.04	8.36	190.00	966.00	7.98	430.00	377.00	8.24
273.23	518.27	8.90	210.00	986.00	8.07	420.00	387.00	8.29
250.01	541.49	7.88	230.00	1006.00	7.91	410.00	397.00	8.35
226.78	564.72	7.94	250.00	1026.00	7.96	400.00	407.00	8.42
203.55	587.95	7.78	270.00	1046.00	8.01	390.00	417.00	8.60
172.59	618.91	7.53	290.00	1066.00	8.12	380.00	427.00	8.77
149.36	642.14	7.27	310.00	1086.00	8.26	370.00	437.00	8.84
118.39	673.11	7.08	330.00	1106.00	8.44	350.00	457.00	8.94
95.16	696.34	7.19	350.00	1126.00	8.56	340.00	467.00	8.79
64.20	727.30	7.24	370.00	1146.00	8.60	320.00	487.00	8.62
40.97	750.53	7.61	390.00	1166.00	8.69	310.00	497.00	8.57
10.00	781.50	8.28	410.00	1186.00	8.75	290.00	517.00	8.90
34.14	825.64	7.87	430.00	1206.00	9.20	280.00	527.00	8.48
82.42	873.92	7.61	450.00	1226.00	9.52	260.00	547.00	7.98
118.62	910.12	7.71	470.00	1246.00	9.64	250.00	557.00	7.96
166.90	958.40	7.84	490.00	1266.00	9.74	230.00	577.00	7.97
203.11	994.61	7.95	510.00	1286.00	9.87	220.00	587.00	7.89
251.38	1042.88	7.85	530.00	1306.00	10.08	200.00	607.00	7.67
287.59	1079.09	8.17	550.00	1326.00	10.24	190.00	617.00	7.49
335.87	1127.37	8.56	570.00	1346.00	10.31	170.00	637.00	7.35
372.08	1163.58	8.57	590.00	1366.00	10.31	160.00	647.00	7.26
420.35	1211.85	9.10	610.00	1386.00	10.38	140.00	667.00	7.16
456.56	1248.06	9.51	630.00	1406.00	10.51	130.00	677.00	7.12
504.84	1296.34	9.91	650.00	1426.00	10.69	110.00	697.00	7.17
541.05	1332.55	10.18	670.00	1446.00	10.74	100.00	707.00	7.23
589.32	1380.82	10.25	690.00	1466.00	10.80	80.00	727.00	7.26
625.53	1417.03	10.45	710.00	1486.00	10.78	70.00	737.00	7.36
673.81	1465.31	10.79	730.00	1506.00	11.15	50.00	757.00	7.80
710.02	1501.52	10.91	760.00	1536.00	11.22	40.00	767.00	8.19
758.29	1549.79	10.86	780.00	1556.00	10.96	20.00	787.00	8.27
794.50	1586.00	10.64	810.00	1586.00	10.75	10.00	797.00	8.12

REV. X2

AMCY-ED12781/1

101012

Page 2 of 5



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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
275.00	45.51	43.40	42.69	34.39	33.43	32.75	106.00	275.00	22.60	22.47	23.82
315.00	23.10	22.94	23.29	24.31	23.99	24.58	146.00	315.00	29.06	32.31	35.62
355.00	26.29	26.09	26.49	34.73	34.12	34.62	186.00	355.00	27.27	30.69	31.69
395.00	32.40	32.86	34.54	29.46	29.74	30.19	226.00	395.00	27.97	32.03	36.69
435.00	32.80	33.24	35.28	25.60	26.07	26.87	266.00	435.00	30.75	31.76	24.84
475.00	32.95	35.78	36.84	22.37	23.23	25.15	306.00	475.00	31.10	25.34	21.03
515.00	25.97	23.06	21.73	18.81	18.99	19.80	346.00	515.00	22.81	19.39	17.68
555.00	19.08	19.52	21.82	21.51	22.44	24.69	386.00	555.00	23.24	19.99	16.98
595.00	18.39	18.99	21.28	20.58	21.79	25.08	426.00	595.00	27.39	24.36	21.57
635.00	17.25	17.67	19.35	20.74	21.77	24.10	466.00	635.00	29.33	27.92	27.26
675.00	14.91	15.30	16.61	22.32	24.25	26.75	506.00	675.00	35.66	34.64	34.85
715.00	18.64	18.72	19.82	18.43	22.18	26.65	546.00	715.00	38.45	39.00	39.21
755.00	19.70	18.77	19.13	16.32	18.63	21.02	586.00	755.00	33.40	34.26	32.19
795.00	33.40	31.69	30.54	10.81	11.78	13.45	626.00	795.00	30.34	30.88	31.61
835.00	33.01	34.83	36.94	10.47	11.35	12.89	666.00	835.00	28.06	27.72	27.35
875.00	30.53	28.13	26.92	10.88	12.10	13.95	706.00	875.00	26.81	24.93	22.29
915.00	34.97	34.33	32.76	9.63	10.49	11.93	746.00	915.00	27.52	23.15	19.71
955.00	33.57	28.40	28.43	7.78	8.57	10.68	786.00	955.00	29.76	25.03	22.54
995.00	28.69	28.31	29.54	7.81	8.92	11.36	826.00	995.00	34.75	30.00	30.47
1035.00	23.01	24.77	26.81	9.13	10.62	13.12	866.00	1035.00	32.04	34.71	34.78
1075.00	32.73	34.68	32.63	10.68	12.63	15.47	906.00	1075.00	27.88	28.97	29.90
1105.00	28.58	29.67	28.41	11.72	13.55	16.50	936.00	1105.00	26.95	27.35	28.11
1145.00	31.33	29.94	28.74	13.44	15.12	17.91	976.00	1145.00	26.82	26.70	27.79
1175.00	25.55	28.80	29.55	15.14	16.95	19.42	1006.00	1175.00	26.59	26.23	27.43
1215.00	21.76	24.28	25.47	17.59	20.41	23.44	1046.00	1215.00	26.48	26.02	27.02
1245.00	24.77	28.93	29.53	20.11	24.40	29.07	1076.00	1245.00	27.07	26.56	27.20
1285.00	29.67	25.97	25.34	20.78	23.23	26.17	1116.00	1285.00	26.83	26.42	26.71
1315.00	24.36	23.48	23.97	19.34	21.33	24.08	1146.00	1315.00	25.23	23.62	23.29
1355.00	26.25	26.33	27.56	18.80	19.64	21.22	1186.00	1355.00	24.39	22.72	22.25
1385.00	31.25	32.53	33.64	20.27	21.42	23.07	1216.00	1385.00	26.01	25.79	25.81
1425.00	31.09	29.90	30.35	24.56	27.66	31.04	1256.00	1425.00	26.76	27.53	28.33
1455.00	23.68	23.34	24.34	24.08	23.92	24.48	1286.00	1455.00	26.81	28.07	29.25
1495.00	16.86	17.00	18.03	20.39	21.15	22.38	1326.00	1495.00	28.69	29.45	30.09
1525.00	12.78	13.24	14.42	18.61	19.68	20.82	1356.00	1525.00	31.54	31.08	30.87
1565.00	14.36	15.53	17.12	21.39	22.50	23.75	1396.00	1565.00	36.43	35.73	36.22
1595.00	14.43	15.15	16.42	24.16	25.68	27.11	1426.00	1595.00	34.41	33.78	34.52
1635.00	14.16	14.97	16.26	24.89	26.25	27.76	1466.00	1635.00	33.90	33.06	33.03
1665.00	14.75	15.86	17.30	23.55	24.50	25.99	1496.00	1665.00	32.67	32.37	32.21
1705.00	16.25	17.61	19.12	20.87	21.65	23.08	1536.00	1705.00	30.62	30.39	30.15
1735.00	16.94	18.05	19.35	18.81	19.61	20.92	1566.00	1735.00	28.81	28.54	28.13

Frequency Mixer

AMCY-ED12781/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=976MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		-2	+1	+4		-2	+1	+4		-2	+1	+4
106.00	275.00	4.47	3.75	3.38	275.00	4.45	4.47	4.54	10.00	1.01	1.07	1.07
146.00	315.00	1.94	2.00	2.10	315.00	4.80	4.79	4.72	30.00	1.07	1.09	1.09
186.00	355.00	1.44	1.54	1.64	355.00	3.78	3.79	3.82	50.00	1.14	1.17	1.17
226.00	395.00	1.11	1.23	1.30	395.00	3.79	3.80	3.83	70.00	1.21	1.21	1.21
266.00	435.00	1.14	1.10	1.19	435.00	3.85	3.83	3.76	90.00	1.24	1.25	1.25
306.00	475.00	1.28	1.24	1.26	475.00	3.89	3.84	3.75	110.00	1.37	1.39	1.39
346.00	515.00	1.44	1.39	1.42	515.00	3.88	3.79	3.62	130.00	1.37	1.39	1.39
386.00	555.00	1.50	1.39	1.36	555.00	3.65	3.49	3.27	150.00	1.41	1.43	1.43
426.00	595.00	1.63	1.58	1.57	595.00	3.26	3.14	2.98	170.00	1.51	1.52	1.52
466.00	635.00	1.86	1.80	1.77	635.00	2.87	2.80	2.72	200.00	1.58	1.59	1.59
506.00	675.00	1.78	1.65	1.58	675.00	2.56	2.51	2.46	220.00	1.57	1.60	1.60
546.00	715.00	1.82	1.64	1.52	715.00	2.31	2.29	2.26	250.00	1.63	1.65	1.65
586.00	755.00	1.66	1.44	1.33	755.00	2.13	2.13	2.13	270.00	1.70	1.73	1.73
626.00	795.00	1.33	1.22	1.21	795.00	2.01	2.02	2.04	300.00	1.73	1.76	1.76
666.00	835.00	1.41	1.36	1.36	835.00	1.90	1.91	1.96	320.00	1.70	1.73	1.73
706.00	875.00	1.49	1.43	1.40	875.00	1.92	1.94	1.99	350.00	1.75	1.78	1.78
746.00	915.00	1.45	1.43	1.41	915.00	2.03	2.05	2.11	370.00	1.81	1.83	1.83
786.00	955.00	1.48	1.51	1.51	955.00	2.22	2.26	2.24	400.00	1.80	1.82	1.82
826.00	995.00	1.52	1.54	1.54	995.00	2.64	2.64	2.57	420.00	1.76	1.78	1.77
866.00	1035.00	1.41	1.44	1.45	1035.00	2.93	2.89	2.80	450.00	1.80	1.82	1.82
906.00	1075.00	1.36	1.40	1.41	1075.00	3.07	3.00	2.89	470.00	1.86	1.88	1.88
936.00	1105.00	1.29	1.33	1.34	1105.00	3.02	2.99	2.89	500.00	1.83	1.84	1.84
976.00	1145.00	1.12	1.18	1.19	1145.00	2.88	2.85	2.80	520.00	1.77	1.77	1.77
1006.00	1175.00	1.01	1.08	1.09	1175.00	2.78	2.73	2.70	550.00	1.76	1.76	1.76
1046.00	1215.00	1.17	1.17	1.19	1215.00	2.62	2.57	2.54	570.00	1.78	1.77	1.77
1076.00	1245.00	1.34	1.34	1.36	1245.00	2.47	2.40	2.37	600.00	1.79	1.76	1.75
1116.00	1285.00	1.55	1.58	1.61	1285.00	2.29	2.25	2.25	620.00	1.81	1.77	1.77
1146.00	1315.00	1.70	1.72	1.76	1315.00	2.23	2.18	2.20	650.00	1.96	1.92	1.91
1186.00	1355.00	1.88	1.89	1.91	1355.00	2.11	2.07	2.10	670.00	2.12	2.08	2.07
1216.00	1385.00	2.01	2.00	2.02	1385.00	2.03	2.00	2.03	700.00	2.30	2.26	2.25
1256.00	1425.00	2.14	2.10	2.10	1425.00	1.98	1.96	2.01	720.00	2.36	2.32	2.32
1286.00	1455.00	2.20	2.12	2.10	1455.00	1.95	1.95	2.00	750.00	2.45	2.42	2.41
1326.00	1495.00	2.31	2.16	2.11	1495.00	2.02	2.01	2.07	770.00	2.56	2.53	2.52
1356.00	1525.00	2.50	2.23	2.12	1525.00	2.35	2.31	2.33	800.00	2.67	2.65	2.65
1396.00	1565.00	2.38	2.18	2.08	1565.00	2.04	2.04	2.11	820.00	2.64	2.62	2.62
1426.00	1595.00	2.42	2.20	2.11	1595.00	2.04	2.09	2.19	850.00	2.62	2.60	2.60
1466.00	1635.00	2.62	2.38	2.26	1635.00	2.28	2.35	2.46	870.00	2.68	2.66	2.66
1496.00	1665.00	2.78	2.57	2.47	1665.00	2.58	2.67	2.78	900.00	2.71	2.71	2.71
1536.00	1705.00	3.20	3.05	2.98	1705.00	3.25	3.32	3.35	920.00	2.67	2.68	2.68
1566.00	1735.00	3.71	3.58	3.50	1735.00	4.12	4.14	4.03	950.00	2.49	2.52	2.52

REV. X2

AMCY-ED12781/1

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Page 4 of 5

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	12	17	31	27	28	43	34	49	45
1	-	17	+0	19	17	30	39	46	37	51	47	72
2	63	57	56	61	65	59	71	73	66	77	75	81
3	>90	>83	73	82	69	77	78	>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: 791.5 MHz; 0.00 dBm.
LO IN: 960.5 MHz; +1.00 dBm
IF OUT: 169 MHz; -7.37 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	22	27	40	36	38	51	46	66	57
1	-	17	+0	19	17	30	40	46	38	51	48	75
2	44	47	47	50	56	49	62	63	56	70	64	77
3	64	61	52	58	48	57	54	68	67	83	74	82
4	>90	92	74	78	78	75	74	76	>93	90	89	87
5	>90	>93	85	86	73	86	74	82	82	>93	>93	>93
6	>90	>93	>93	>93	90	>93	87	>93	91	>93	>93	>93
7	>90	>93	>93	>93	92	92	85	>93	89	>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: 791.5 MHz; 10.00 dBm.
LO IN: 960.5 MHz; +1.00 dBm
IF OUT: 169 MHz; 2.57 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.

REV. X2
AMCY-ED12781/1
101012
Page 5 of 5

