

Frequency Mixer

AMCY-ED11311A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=112.5MHz (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
217.5	330.0	12.25	10.84	10.06	217.5	330.0	17.77	19.85	22.28	217.5	330.0	-0.13	0.06	0.06
277.5	390.0	8.89	8.36	8.06	277.5	390.0	20.87	22.88	25.83	277.5	390.0	0.06	-0.05	-0.05
337.5	450.0	7.70	7.30	7.07	337.5	450.0	18.45	18.96	22.28	337.5	450.0	0.36	0.00	-0.06
397.5	510.0	7.56	7.41	7.47	397.5	510.0	22.84	24.96	25.05	397.5	510.0	0.67	0.53	0.37
457.5	570.0	6.97	7.15	7.51	457.5	570.0	23.22	24.42	26.78	457.5	570.0	0.62	0.41	0.31
517.5	630.0	6.65	6.73	6.92	517.5	630.0	24.15	24.83	25.76	517.5	630.0	0.71	0.56	0.46
577.5	690.0	6.85	7.00	7.18	577.5	690.0	24.25	26.03	26.14	577.5	690.0	0.56	0.38	0.36
637.5	750.0	6.81	6.92	7.20	637.5	750.0	25.00	27.18	29.13	637.5	750.0	0.51	0.31	0.21
697.5	810.0	6.76	6.79	6.97	697.5	810.0	26.39	28.74	30.51	697.5	810.0	0.43	0.26	0.18
757.5	870.0	6.84	6.84	6.93	757.5	870.0	24.84	26.98	28.66	757.5	870.0	0.59	0.32	0.22
817.5	930.0	7.08	7.00	7.01	817.5	930.0	24.00	25.90	27.87	817.5	930.0	0.83	0.56	0.39
877.5	990.0	7.34	7.27	7.28	877.5	990.0	24.64	28.94	33.13	877.5	990.0	1.06	0.68	0.41
937.5	1050.0	7.69	7.62	7.69	937.5	1050.0	24.53	25.71	27.49	937.5	1050.0	1.56	1.31	1.12
997.5	1110.0	7.73	7.59	7.55	997.5	1110.0	25.01	27.32	26.86	997.5	1110.0	1.09	0.82	0.70
1057.5	1170.0	7.56	7.39	7.33	1057.5	1170.0	26.60	30.11	32.45	1057.5	1170.0	0.79	0.51	0.36
1117.5	1230.0	7.55	7.31	7.20	1117.5	1230.0	26.92	30.19	32.83	1117.5	1230.0	0.70	0.45	0.28
1177.5	1290.0	7.62	7.33	7.16	1177.5	1290.0	27.29	28.57	29.81	1177.5	1290.0	0.59	0.38	0.25
1237.5	1350.0	7.69	7.40	7.22	1237.5	1350.0	26.37	26.85	27.14	1237.5	1350.0	0.47	0.33	0.24
1297.5	1410.0	7.75	7.45	7.32	1297.5	1410.0	25.43	26.55	28.48	1297.5	1410.0	0.42	0.31	0.22
1357.5	1470.0	7.77	7.54	7.43	1357.5	1470.0	23.43	24.65	26.68	1357.5	1470.0	0.38	0.24	0.19
1417.5	1530.0	7.77	7.61	7.62	1417.5	1530.0	21.78	24.45	28.05	1417.5	1530.0	0.35	0.22	0.17
1487.5	1600.0	7.92	7.62	7.56	1487.5	1600.0	24.64	26.75	27.83	1487.5	1600.0	0.55	0.43	0.37
1547.5	1660.0	7.89	7.51	7.41	1547.5	1660.0	22.50	25.23	27.75	1547.5	1660.0	0.99	0.72	0.52
1617.5	1730.0	7.84	7.48	7.41	1617.5	1730.0	22.00	25.80	28.94	1617.5	1730.0	1.06	0.66	0.39
1677.5	1790.0	7.83	7.54	7.52	1677.5	1790.0	22.72	26.82	29.81	1677.5	1790.0	0.85	0.53	0.30
1747.5	1860.0	7.92	7.60	7.50	1747.5	1860.0	23.52	27.09	29.60	1747.5	1860.0	0.68	0.49	0.32
1807.5	1920.0	7.91	7.55	7.40	1807.5	1920.0	23.75	27.12	29.62	1807.5	1920.0	0.57	0.39	0.27
1877.5	1990.0	7.85	7.42	7.23	1877.5	1990.0	24.11	26.51	27.81	1877.5	1990.0	0.56	0.41	0.31
1937.5	2050.0	7.94	7.47	7.27	1937.5	2050.0	23.80	25.81	26.89	1937.5	2050.0	0.54	0.43	0.36
2007.5	2120.0	8.15	7.67	7.46	2007.5	2120.0	23.99	27.25	29.49	2007.5	2120.0	0.54	0.42	0.32
2067.5	2180.0	8.16	7.66	7.43	2067.5	2180.0	23.64	26.50	27.51	2067.5	2180.0	0.68	0.58	0.46
2137.5	2250.0	8.35	7.83	7.58	2137.5	2250.0	22.81	25.20	26.11	2137.5	2250.0	0.71	0.65	0.57
2197.5	2310.0	8.72	8.16	7.89	2197.5	2310.0	22.27	24.07	25.09	2197.5	2310.0	0.70	0.66	0.61
2267.5	2380.0	8.97	8.41	8.13	2267.5	2380.0	21.70	22.60	23.06	2267.5	2380.0	0.80	0.71	0.63
2327.5	2440.0	9.08	8.54	8.30	2327.5	2440.0	22.44	23.18	23.73	2327.5	2440.0	0.86	0.70	0.59
2397.5	2510.0	9.32	8.70	8.42	2397.5	2510.0	24.48	24.38	25.33	2397.5	2510.0	0.91	0.72	0.58
2457.5	2570.0	9.64	8.94	8.61	2457.5	2570.0	25.93	25.44	25.92	2457.5	2570.0	0.99	0.77	0.62
2527.5	2640.0	10.09	9.30	8.95	2527.5	2640.0	25.82	26.51	26.11	2527.5	2640.0	1.00	0.77	0.61
2587.5	2700.0	10.69	9.77	9.38	2587.5	2700.0	23.60	27.11	26.65	2587.5	2700.0	0.92	0.72	0.54
2657.5	2770.0	11.53	10.48	10.01	2657.5	2770.0	21.86	24.04	24.78	2657.5	2770.0	0.89	0.79	0.59

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1087.5MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=477.5MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1697.5MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		0			0			0
750.0	337.5	10.39	10.0	487.5	7.98	1190.0	507.5	10.61
709.3	378.2	9.05	30.0	507.5	7.14	1160.0	537.5	10.09
668.7	418.8	8.39	50.0	527.5	6.97	1130.0	567.5	9.84
628.0	459.5	7.74	70.0	547.5	6.97	1100.0	597.5	9.68
587.4	500.1	8.93	90.0	567.5	6.99	1070.0	627.5	9.39
546.7	540.8	9.35	110.0	587.5	6.91	1040.0	657.5	9.17
506.0	581.5	9.41	130.0	607.5	6.96	1010.0	687.5	9.06
465.4	622.1	8.99	150.0	627.5	6.93	980.0	717.5	8.97
424.7	662.8	8.67	170.0	647.5	7.07	950.0	747.5	8.84
384.1	703.4	8.23	200.0	677.5	7.48	920.0	777.5	8.73
343.4	744.1	7.80	220.0	697.5	7.44	890.0	807.5	8.61
302.7	784.8	7.53	250.0	727.5	7.44	860.0	837.5	8.72
262.1	825.4	7.38	270.0	747.5	7.50	830.0	867.5	9.02
221.4	866.1	7.35	300.0	777.5	7.61	800.0	897.5	9.29
180.8	906.7	7.34	320.0	797.5	7.61	770.0	927.5	9.32
140.1	947.4	7.43	350.0	827.5	7.66	740.0	957.5	9.38
99.5	988.0	7.50	370.0	847.5	7.74	710.0	987.5	9.36
58.8	1028.7	7.49	400.0	877.5	7.85	680.0	1017.5	9.19
26.3	1061.2	7.36	420.0	897.5	7.86	650.0	1047.5	9.03
33.5	1121.0	7.40	450.0	927.5	7.96	620.0	1077.5	8.84
80.4	1167.9	7.40	470.0	947.5	8.00	590.0	1107.5	8.64
139.1	1226.6	7.38	500.0	977.5	8.06	560.0	1137.5	8.49
186.1	1273.6	7.43	520.0	997.5	8.16	530.0	1167.5	8.34
244.8	1332.3	7.61	550.0	1027.5	8.27	500.0	1197.5	8.15
291.7	1379.2	7.71	570.0	1047.5	8.30	470.0	1227.5	8.03
350.4	1437.9	7.87	600.0	1077.5	8.28	440.0	1257.5	7.90
397.4	1484.9	8.14	620.0	1097.5	8.36	410.0	1287.5	7.86
456.1	1543.6	8.48	650.0	1127.5	8.42	380.0	1317.5	7.83
503.0	1590.5	8.54	670.0	1147.5	8.45	350.0	1347.5	7.77
561.7	1649.2	8.68	700.0	1177.5	8.51	320.0	1377.5	7.67
608.7	1696.2	8.73	720.0	1197.5	8.57	290.0	1407.5	7.55
667.4	1754.9	8.87	750.0	1227.5	8.79	260.0	1437.5	7.45
714.3	1801.8	8.91	770.0	1247.5	8.79	230.0	1467.5	7.39
773.0	1860.5	9.21	800.0	1277.5	8.98	200.0	1497.5	7.42
820.0	1907.5	9.35	820.0	1297.5	9.05	170.0	1527.5	7.48
878.7	1966.2	9.50	850.0	1327.5	9.32	140.0	1557.5	7.57
925.7	2013.2	9.75	870.0	1347.5	9.49	110.0	1587.5	7.56
984.3	2071.8	9.76	900.0	1377.5	9.76	80.0	1617.5	7.56
1031.3	2118.8	9.86	920.0	1397.5	9.95	40.0	1657.5	7.51
1090.0	2177.5	10.15	950.0	1427.5	10.12	10.0	1687.5	7.84

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Frequency Mixer

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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
330.0	38.76	39.81	40.85	26.25	25.55	25.40
390.0	31.02	33.71	38.38	20.02	20.45	21.57
450.0	22.30	22.98	24.57	19.16	19.36	20.02
510.0	15.14	15.64	16.37	19.71	18.50	18.31
570.0	15.78	16.59	18.69	16.39	16.64	18.41
630.0	16.54	18.33	20.30	14.35	15.28	17.41
690.0	20.32	22.80	24.37	13.72	14.59	16.76
750.0	19.25	20.64	22.74	14.94	15.32	16.49
810.0	21.77	23.34	26.05	14.44	14.66	15.44
870.0	24.74	26.61	28.20	14.00	14.06	14.70
930.0	19.17	18.25	18.08	15.33	15.81	16.86
990.0	15.96	15.35	15.88	19.34	21.98	24.69
1050.0	14.98	14.12	14.44	19.52	21.74	23.14
1110.0	16.14	15.06	15.25	18.39	20.17	21.18
1170.0	16.95	15.82	15.77	17.34	19.12	20.72
1230.0	17.86	16.72	16.37	16.83	18.54	20.36
1290.0	18.20	17.26	16.94	17.45	18.97	20.48
1350.0	19.02	18.68	18.40	17.60	18.38	19.55
1410.0	20.86	20.74	20.62	15.59	16.84	18.37
1470.0	22.75	23.13	23.81	15.11	17.04	19.60
1530.0	29.33	34.75	44.93	14.36	15.48	17.11
1600.0	24.92	22.51	22.33	11.57	12.31	13.79
1660.0	20.32	19.35	20.03	9.54	10.06	11.50
1730.0	19.65	19.41	20.19	8.58	8.80	10.10
1790.0	23.20	23.33	24.02	9.58	10.03	11.50
1860.0	25.14	23.65	23.26	12.53	13.43	14.86
1920.0	23.21	23.33	24.14	13.02	13.84	15.23
1990.0	25.05	23.78	23.30	12.83	13.41	14.63
2050.0	23.24	22.52	23.27	12.65	13.44	14.88
2120.0	19.84	19.61	20.68	13.27	14.11	15.47
2180.0	20.19	20.87	22.41	14.01	14.95	16.24
2250.0	22.00	24.28	26.46	14.95	15.82	16.89
2310.0	21.12	24.35	27.08	16.36	16.71	17.41
2380.0	19.88	23.11	26.28	18.94	19.03	19.51
2440.0	19.16	22.08	25.08	22.91	22.77	23.24
2510.0	18.10	20.29	22.83	28.64	29.85	32.23
2570.0	17.71	19.64	22.01	24.99	26.27	29.09
2640.0	19.40	21.32	23.87	21.40	21.62	23.00
2700.0	20.96	21.88	23.89	21.11	20.41	21.26
2770.0	20.82	20.61	21.82	21.10	19.54	19.78

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		-3	0	+3
217.5	330.0	30.38	30.18	30.51
277.5	390.0	32.04	35.22	32.99
337.5	450.0	29.14	30.90	36.98
397.5	510.0	34.12	27.38	22.28
457.5	570.0	32.10	29.60	27.02
517.5	630.0	34.94	33.98	31.85
577.5	690.0	54.54	36.12	33.61
637.5	750.0	39.71	31.20	24.60
697.5	810.0	32.57	28.89	25.33
757.5	870.0	27.86	25.27	23.74
817.5	930.0	23.98	21.40	19.99
877.5	990.0	22.91	20.41	19.21
937.5	1050.0	24.77	22.92	21.76
997.5	1110.0	23.30	22.44	21.84
1057.5	1170.0	22.94	22.25	21.97
1117.5	1230.0	23.44	22.57	22.03
1177.5	1290.0	24.02	23.07	22.32
1237.5	1350.0	24.35	23.79	23.15
1297.5	1410.0	26.09	26.07	26.26
1357.5	1470.0	28.79	29.28	30.16
1417.5	1530.0	31.02	32.33	34.26
1487.5	1600.0	33.69	37.22	45.29
1547.5	1660.0	36.54	41.09	41.85
1617.5	1730.0	41.41	38.38	33.09
1677.5	1790.0	39.55	33.68	29.53
1747.5	1860.0	36.79	32.48	30.13
1807.5	1920.0	36.80	33.36	32.36
1877.5	1990.0	45.78	44.33	46.24
1937.5	2050.0	36.27	38.82	39.74
2007.5	2120.0	31.16	32.98	33.60
2067.5	2180.0	28.24	29.84	30.48
2137.5	2250.0	26.00	27.37	27.91
2197.5	2310.0	24.22	25.48	26.06
2267.5	2380.0	22.52	23.48	23.95
2327.5	2440.0	21.63	22.40	22.77
2397.5	2510.0	20.83	21.35	21.61
2457.5	2570.0	20.33	20.78	20.98
2527.5	2640.0	20.22	20.67	20.88
2587.5	2700.0	20.45	20.83	21.00
2657.5	2770.0	21.10	21.30	21.43

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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=1800MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		-3	0	+3		-3	0	+3		-3	0	+3
217.5	330.0	7.28	6.44	5.99	330.0	2.35	2.35	2.36	10.0	1.20	1.38	1.51
277.5	390.0	3.80	3.60	3.48	390.0	2.45	2.44	2.44	50.0	1.22	1.39	1.51
337.5	450.0	2.55	2.47	2.43	450.0	2.21	2.21	2.21	90.0	1.32	1.44	1.53
397.5	510.0	1.95	2.08	2.17	510.0	1.96	1.96	1.96	130.0	1.40	1.49	1.57
457.5	570.0	1.68	1.86	1.98	570.0	1.74	1.73	1.76	170.0	1.52	1.55	1.59
517.5	630.0	1.52	1.65	1.77	630.0	1.66	1.62	1.64	210.0	1.64	1.65	1.69
577.5	690.0	1.56	1.71	1.82	690.0	1.72	1.66	1.62	250.0	1.73	1.69	1.68
637.5	750.0	1.53	1.68	1.78	750.0	1.81	1.77	1.72	290.0	1.89	1.83	1.82
697.5	810.0	1.53	1.65	1.73	810.0	1.81	1.80	1.77	330.0	1.93	1.84	1.80
757.5	870.0	1.55	1.61	1.67	870.0	1.78	1.74	1.69	370.0	2.10	1.98	1.93
817.5	930.0	1.65	1.64	1.66	930.0	1.70	1.66	1.61	410.0	2.10	1.96	1.90
877.5	990.0	1.80	1.72	1.70	990.0	1.65	1.61	1.57	450.0	2.19	2.04	1.96
937.5	1050.0	1.91	1.79	1.73	1050.0	1.59	1.56	1.54	490.0	2.17	2.02	1.94
997.5	1110.0	1.91	1.78	1.71	1110.0	1.53	1.51	1.50	530.0	2.14	1.98	1.90
1057.5	1170.0	1.92	1.76	1.67	1170.0	1.46	1.45	1.45	570.0	2.14	1.98	1.91
1117.5	1230.0	2.00	1.83	1.72	1230.0	1.40	1.40	1.41	610.0	2.07	1.90	1.83
1177.5	1290.0	2.09	1.90	1.79	1290.0	1.38	1.38	1.40	650.0	2.05	1.89	1.82
1237.5	1350.0	2.15	1.96	1.83	1350.0	1.39	1.39	1.41	690.0	1.96	1.81	1.73
1297.5	1410.0	2.15	1.95	1.80	1410.0	1.44	1.44	1.47	730.0	1.90	1.76	1.69
1357.5	1470.0	2.07	1.88	1.74	1470.0	1.54	1.54	1.56	790.0	1.78	1.66	1.59
1417.5	1530.0	1.97	1.73	1.57	1530.0	1.66	1.67	1.68	830.0	1.69	1.59	1.53
1487.5	1600.0	1.79	1.55	1.42	1600.0	1.85	1.87	1.88	890.0	1.53	1.46	1.42
1547.5	1660.0	1.71	1.49	1.38	1660.0	2.04	2.07	2.09	930.0	1.42	1.36	1.34
1617.5	1730.0	1.65	1.45	1.36	1730.0	2.24	2.28	2.31	990.0	1.35	1.32	1.31
1677.5	1790.0	1.62	1.44	1.35	1790.0	2.40	2.43	2.45	1030.0	1.37	1.35	1.35
1747.5	1860.0	1.59	1.44	1.38	1860.0	2.57	2.58	2.57	1090.0	1.47	1.46	1.46
1807.5	1920.0	1.59	1.46	1.41	1920.0	2.67	2.66	2.60	1130.0	1.56	1.55	1.55
1877.5	1990.0	1.68	1.55	1.49	1990.0	2.71	2.66	2.56	1190.0	1.75	1.75	1.75
1937.5	2050.0	1.63	1.49	1.43	2050.0	2.68	2.59	2.47	1230.0	1.88	1.87	1.87
2007.5	2120.0	1.61	1.47	1.40	2120.0	2.54	2.44	2.31	1290.0	2.13	2.11	2.11
2067.5	2180.0	1.57	1.44	1.37	2180.0	2.39	2.28	2.17	1330.0	2.37	2.34	2.34
2137.5	2250.0	1.54	1.42	1.36	2250.0	2.16	2.05	1.96	1390.0	2.68	2.66	2.65
2197.5	2310.0	1.54	1.45	1.40	2310.0	1.96	1.87	1.80	1430.0	2.82	2.78	2.76
2267.5	2380.0	1.61	1.55	1.52	2380.0	1.77	1.70	1.66	1490.0	3.12	3.07	3.04
2327.5	2440.0	1.70	1.65	1.64	2440.0	1.62	1.58	1.57	1530.0	3.30	3.24	3.21
2397.5	2510.0	1.86	1.80	1.79	2510.0	1.47	1.45	1.47	1590.0	3.53	3.45	3.41
2457.5	2570.0	2.03	1.96	1.94	2570.0	1.39	1.38	1.41	1630.0	3.60	3.52	3.47
2527.5	2640.0	2.26	2.17	2.14	2640.0	1.30	1.30	1.35	1690.0	3.66	3.53	3.47
2587.5	2700.0	2.52	2.42	2.37	2700.0	1.25	1.25	1.29	1730.0	3.67	3.50	3.42
2657.5	2770.0	2.90	2.77	2.71	2770.0	1.19	1.19	1.24	1790.0	3.80	3.59	3.48

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	16	30	26	33	32	49	42	43	50
1	-	15	+0	30	18	45	33	44	54	50	50	50
2	54	39	55	46	42	49	59	51	74	62	66	66
3	>90	67	55	58	50	70	60	62	72	69	82	78
4	>90	>83	>83	>83	79	77	74	>83	77	>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: 1087.50 MHz; 0.00 dBm.

LO IN: 1200.00 MHz; +0.00 dBm

IF OUT: 112.50 MHz; -7.44 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	23	37	33	46	43	51	52	61	63
1	-	15	+0	29	19	43	34	50	57	59	55	50
2	40	30	52	36	34	41	60	46	62	59	68	64
3	66	48	36	39	32	57	43	48	56	59	67	69
4	90	58	57	72	51	56	50	65	54	61	81	92
5	>90	71	68	69	59	63	54	68	69	73	76	72
6	>90	81	81	73	70	70	61	64	67	73	66	85
7	>90	85	>92	83	91	79	73	70	71	85	84	91
8	>90	>92	92	91	>92	89	83	87	74	76	77	83
9	>90	>92	>92	>92	>92	87	>92	85	80	82	87	86
10	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	87	85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1087.50 MHz; +10.00 dBm.

LO IN: 1200.00 MHz; +0.00 dBm

IF OUT: 112.50 MHz; +2.43 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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