

Frequency Mixer

AMCY-ED12681

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
420.00	251.00	14.58	12.50	13.18	420.00	251.00	13.53	13.49	13.53	420.00	251.00	5.44	5.08	3.94
470.00	301.00	7.37	6.66	6.67	470.00	301.00	15.08	17.24	18.80	470.00	301.00	5.22	3.95	3.13
530.00	361.00	6.66	6.80	7.90	530.00	361.00	20.58	21.75	22.24	530.00	361.00	1.56	1.15	0.86
580.00	411.00	6.50	6.44	6.63	580.00	411.00	20.97	23.40	24.36	580.00	411.00	1.58	0.98	0.71
640.00	471.00	6.88	6.56	6.44	640.00	471.00	19.15	21.07	23.01	640.00	471.00	0.65	0.41	0.47
690.00	521.00	7.36	7.32	7.68	690.00	521.00	24.69	25.67	25.54	690.00	521.00	0.58	0.40	0.32
750.00	581.00	6.99	7.18	7.42	750.00	581.00	26.06	26.81	26.64	750.00	581.00	0.43	0.35	0.37
800.00	631.00	6.84	6.90	6.86	800.00	631.00	26.10	26.95	27.39	800.00	631.00	0.45	0.41	0.41
860.00	691.00	6.99	7.00	7.07	860.00	691.00	25.66	26.91	28.12	860.00	691.00	0.51	0.39	0.30
910.00	741.00	7.06	7.11	7.37	910.00	741.00	26.56	28.38	28.59	910.00	741.00	0.54	0.38	0.35
970.00	801.00	7.77	7.92	8.89	970.00	801.00	25.58	27.15	23.74	970.00	801.00	1.48	1.09	1.63
1020.00	851.00	8.08	8.25	9.87	1020.00	851.00	23.02	22.15	23.44	1020.00	851.00	1.36	1.21	1.32
1080.00	911.00	8.19	8.30	8.70	1080.00	911.00	28.29	24.73	28.20	1080.00	911.00	0.33	0.14	0.29
1130.00	961.00	8.22	8.25	8.57	1130.00	961.00	30.12	30.40	25.49	1130.00	961.00	0.19	0.01	-0.17
1190.00	1021.00	7.84	7.64	7.67	1190.00	1021.00	26.58	25.92	25.49	1190.00	1021.00	0.51	0.39	0.41
1240.00	1071.00	7.72	7.57	7.58	1240.00	1071.00	28.00	27.89	27.57	1240.00	1071.00	0.60	0.39	0.39
1300.00	1131.00	7.56	7.39	7.36	1300.00	1131.00	27.33	29.03	29.14	1300.00	1131.00	0.63	0.43	0.38
1350.00	1181.00	7.52	7.32	7.27	1350.00	1181.00	26.46	29.01	30.62	1350.00	1181.00	0.53	0.35	0.32
1410.00	1241.00	7.45	7.27	7.21	1410.00	1241.00	25.70	27.68	28.96	1410.00	1241.00	0.55	0.36	0.29
1460.00	1291.00	7.47	7.30	7.23	1460.00	1291.00	24.80	26.42	26.80	1460.00	1291.00	0.63	0.43	0.35
1520.00	1351.00	7.42	7.30	7.27	1520.00	1351.00	25.57	27.26	27.70	1520.00	1351.00	0.63	0.45	0.40
1570.00	1401.00	7.29	7.20	7.20	1570.00	1401.00	27.83	29.42	29.73	1570.00	1401.00	0.52	0.34	0.30
1630.00	1461.00	7.13	7.11	7.14	1630.00	1461.00	30.22	31.82	32.25	1630.00	1461.00	0.31	0.19	0.16
1680.00	1511.00	7.19	7.23	7.26	1680.00	1511.00	33.12	32.62	33.02	1680.00	1511.00	0.16	0.10	0.09
1740.00	1571.00	7.55	7.56	7.55	1740.00	1571.00	31.12	32.60	32.95	1740.00	1571.00	0.17	0.15	0.13
1790.00	1621.00	7.61	7.66	7.69	1790.00	1621.00	33.62	35.11	35.20	1790.00	1621.00	0.12	0.10	0.08
1850.00	1681.00	7.49	7.54	7.56	1850.00	1681.00	32.28	33.71	34.25	1850.00	1681.00	0.15	0.12	0.12
1900.00	1731.00	7.53	7.55	7.58	1900.00	1731.00	30.37	31.77	32.22	1900.00	1731.00	0.27	0.20	0.18
1960.00	1791.00	7.88	7.91	7.97	1960.00	1791.00	29.07	30.37	31.39	1960.00	1791.00	0.35	0.24	0.19
2010.00	1841.00	7.91	7.90	7.92	2010.00	1841.00	28.36	29.69	30.74	2010.00	1841.00	0.42	0.28	0.21
2070.00	1901.00	7.87	7.80	7.78	2070.00	1901.00	26.54	28.98	30.09	2070.00	1901.00	0.53	0.36	0.29
2120.00	1951.00	7.78	7.62	7.55	2120.00	1951.00	24.47	26.53	28.62	2120.00	1951.00	0.65	0.47	0.37
2180.00	2011.00	8.12	7.91	7.80	2180.00	2011.00	22.10	23.82	25.55	2180.00	2011.00	0.75	0.51	0.36
2230.00	2061.00	8.37	8.11	7.98	2230.00	2061.00	21.99	23.46	24.98	2230.00	2061.00	0.82	0.51	0.31
2290.00	2121.00	8.75	8.38	8.20	2290.00	2121.00	21.71	23.11	24.39	2290.00	2121.00	0.95	0.61	0.39
2340.00	2171.00	9.17	8.71	8.47	2340.00	2171.00	21.23	22.92	24.46	2340.00	2171.00	1.21	0.82	0.57
2400.00	2231.00	9.65	8.98	8.64	2400.00	2231.00	20.80	22.19	24.00	2400.00	2231.00	1.53	1.17	0.92
2450.00	2281.00	10.35	9.56	9.16	2450.00	2281.00	19.98	21.20	23.30	2450.00	2281.00	1.55	1.21	0.97
2510.00	2341.00	11.24	10.20	9.77	2510.00	2341.00	21.00	22.04	23.49	2510.00	2341.00	1.56	1.30	1.05
2560.00	2391.00	12.27	11.20	10.83	2560.00	2391.00	24.61	28.81	26.53	2560.00	2391.00	1.44	1.23	0.90

REV. X2

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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)=1750.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1710.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1790.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+0			+0			+0
1190.00	560.10	11.40	10.00	1720.10	7.22	1190.00	600.10	11.34
1124.44	625.66	10.47	30.00	1740.10	7.26	1160.00	630.10	10.80
1058.89	691.21	9.79	50.00	1760.10	7.33	1130.00	660.10	10.41
993.33	756.77	9.84	70.00	1780.10	7.45	1100.00	690.10	10.23
927.78	822.32	9.95	90.00	1800.10	7.53	1070.00	720.10	10.04
862.22	887.88	9.60	110.00	1820.10	7.62	1040.00	750.10	9.99
796.67	953.43	9.62	130.00	1840.10	7.62	1010.00	780.10	10.24
731.11	1018.99	8.91	150.00	1860.10	7.69	980.00	810.10	10.38
665.56	1084.54	8.24	170.00	1880.10	7.61	950.00	840.10	10.23
600.00	1150.10	7.88	190.00	1900.10	7.61	920.00	870.10	9.95
534.44	1215.66	7.70	210.00	1920.10	7.54	890.00	900.10	9.76
468.89	1281.21	7.54	230.00	1940.10	7.60	860.00	930.10	9.74
403.33	1346.77	7.42	250.00	1960.10	7.67	830.00	960.10	9.64
337.78	1412.32	7.18	260.00	1970.10	7.68	800.00	990.10	9.48
285.33	1464.77	7.08	280.00	1990.10	7.84	770.00	1020.10	9.11
219.78	1530.32	7.41	290.00	2000.10	7.90	740.00	1050.10	8.74
167.33	1582.77	7.66	310.00	2020.10	8.02	710.00	1080.10	8.51
101.78	1648.32	7.57	320.00	2030.10	8.10	680.00	1110.10	8.23
49.33	1700.77	7.32	340.00	2050.10	8.22	650.00	1140.10	8.07
16.81	1766.91	7.53	350.00	2060.10	8.29	620.00	1170.10	7.99
44.07	1794.17	7.57	370.00	2080.10	8.45	590.00	1200.10	7.87
78.13	1828.23	7.68	380.00	2090.10	8.54	560.00	1230.10	7.78
105.38	1855.48	7.64	400.00	2110.10	8.66	530.00	1260.10	7.68
139.45	1889.55	7.58	410.00	2120.10	8.75	500.00	1290.10	7.60
166.70	1916.80	7.58	430.00	2140.10	8.91	470.00	1320.10	7.50
200.77	1950.87	7.55	440.00	2150.10	8.98	440.00	1350.10	7.47
228.02	1978.12	7.69	460.00	2170.10	9.14	410.00	1380.10	7.40
262.09	2012.19	7.91	470.00	2180.10	9.18	380.00	1410.10	7.22
289.34	2039.44	8.03	490.00	2200.10	9.31	350.00	1440.10	7.12
323.41	2073.51	8.28	500.00	2210.10	9.40	320.00	1470.10	7.10
350.66	2100.76	8.48	520.00	2230.10	9.55	290.00	1500.10	7.16
384.73	2134.83	8.70	530.00	2240.10	9.64	260.00	1530.10	7.40
411.98	2162.08	8.87	550.00	2260.10	9.75	230.00	1560.10	7.55
446.04	2196.14	9.14	560.00	2270.10	9.87	200.00	1590.10	7.61
473.30	2223.40	9.40	580.00	2290.10	10.10	170.00	1620.10	7.66
507.36	2257.46	9.72	590.00	2300.10	10.21	140.00	1650.10	7.57
534.62	2284.72	9.92	610.00	2320.10	10.46	110.00	1680.10	7.42
568.68	2318.78	10.23	620.00	2330.10	10.60	80.00	1710.10	7.32
595.93	2346.03	10.66	640.00	2350.10	10.97	40.00	1750.10	7.40
630.00	2380.10	11.25	650.00	2360.10	11.11	10.00	1780.10	7.44

Frequency Mixer

AMCY-ED12681

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)		
	-3	+0	+3	-3	+0	+3			-3	+0	+3
251.00	46.69	44.14	39.98	37.79	38.61	45.55	420.00	251.00	37.05	33.96	21.58
301.00	46.11	43.31	36.84	26.00	25.90	26.54	470.00	301.00	28.59	22.67	17.34
361.00	39.14	35.25	34.62	21.86	25.20	31.32	530.00	361.00	39.26	35.57	35.62
411.00	39.04	42.10	36.12	19.40	20.37	22.45	580.00	411.00	36.91	33.27	29.43
471.00	24.51	26.47	27.42	21.10	20.46	20.07	640.00	471.00	29.84	28.16	30.67
521.00	19.17	19.82	20.54	21.75	22.22	23.22	690.00	521.00	24.25	21.45	18.40
581.00	18.83	19.37	20.83	16.62	18.26	21.06	750.00	581.00	25.96	21.90	18.16
631.00	17.84	19.24	20.98	14.75	16.41	18.85	800.00	631.00	27.37	24.76	26.22
691.00	18.67	20.35	23.36	14.10	15.56	17.85	860.00	691.00	31.66	35.12	30.61
741.00	29.28	31.87	31.49	14.42	15.50	17.88	910.00	741.00	32.43	27.16	22.48
801.00	23.47	22.60	20.46	12.92	14.39	18.88	970.00	801.00	23.64	21.26	21.06
851.00	20.42	19.94	17.25	13.56	15.10	18.01	1020.00	851.00	23.91	22.35	24.75
911.00	19.28	18.09	17.86	12.38	13.54	15.84	1080.00	911.00	23.03	22.21	21.78
961.00	16.75	16.02	16.85	11.40	12.06	13.66	1130.00	961.00	22.25	21.48	20.97
1021.00	14.18	14.13	15.67	16.34	18.99	22.23	1190.00	1021.00	24.86	25.14	25.05
1071.00	14.97	14.81	16.29	16.12	18.27	21.17	1240.00	1071.00	26.29	26.58	26.60
1131.00	17.27	16.86	18.25	15.07	16.92	19.65	1300.00	1131.00	26.04	25.96	26.04
1181.00	19.07	18.85	20.49	14.04	15.77	18.52	1350.00	1181.00	26.96	26.53	26.53
1241.00	20.62	20.82	22.76	13.71	15.56	18.36	1410.00	1241.00	31.28	31.10	31.03
1291.00	20.35	21.18	23.35	14.34	16.47	19.55	1460.00	1291.00	34.33	34.52	34.92
1351.00	18.46	18.77	20.21	19.78	22.15	24.60	1520.00	1351.00	38.85	40.60	41.43
1401.00	20.80	21.25	22.48	28.64	26.11	26.10	1570.00	1401.00	44.03	46.84	47.04
1461.00	19.07	19.85	21.87	19.95	21.44	23.49	1630.00	1461.00	32.92	32.59	32.39
1511.00	16.79	18.43	21.27	21.77	24.75	26.76	1680.00	1511.00	28.01	27.55	27.47
1571.00	19.85	22.27	25.52	15.82	18.17	20.95	1740.00	1571.00	25.34	24.78	24.47
1621.00	19.33	21.83	25.37	11.73	14.54	17.78	1790.00	1621.00	26.00	25.81	25.88
1681.00	17.36	18.72	20.41	9.43	12.08	15.12	1850.00	1681.00	27.72	27.96	28.82
1731.00	17.74	18.60	20.01	10.63	13.41	16.18	1900.00	1731.00	29.44	29.64	30.27
1791.00	20.31	20.62	21.43	15.75	18.77	20.94	1960.00	1791.00	28.27	28.02	28.16
1841.00	18.97	19.43	20.56	16.18	17.95	19.54	2010.00	1841.00	30.69	30.57	30.79
1901.00	19.09	19.55	20.75	19.35	20.65	22.13	2070.00	1901.00	34.55	34.13	34.42
1951.00	21.89	22.81	24.13	25.75	27.67	28.92	2120.00	1951.00	38.39	38.25	38.97
2011.00	25.01	27.53	30.44	30.08	49.80	37.12	2180.00	2011.00	41.71	46.08	47.20
2061.00	25.30	27.33	29.50	27.65	35.62	53.43	2230.00	2061.00	38.56	42.51	43.82
2121.00	22.73	24.43	26.13	25.94	31.06	39.22	2290.00	2121.00	34.38	37.05	38.37
2171.00	21.38	23.05	24.57	23.66	27.39	31.89	2340.00	2171.00	31.32	33.37	34.81
2231.00	20.55	21.94	23.35	21.96	24.83	27.74	2400.00	2231.00	29.29	30.90	32.28
2281.00	19.93	20.99	22.13	20.47	22.82	25.08	2450.00	2281.00	28.92	30.47	32.27
2341.00	20.03	20.65	21.70	18.93	20.63	22.30	2510.00	2341.00	29.38	30.88	33.01
2391.00	19.91	20.34	21.34	17.87	19.13	20.37	2560.00	2391.00	30.45	32.04	34.58

Frequency Mixer

AMCY-ED12681

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1621MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		-3	+0	+3		-3	+0	+3		-3	+0	+3
420.00	251.00	2.05	1.94	1.79	251.00	10.56	10.56	10.56	10.00	1.71	1.76	1.77
470.00	301.00	1.29	1.22	1.20	301.00	7.73	7.87	8.16	50.00	1.69	1.74	1.75
530.00	361.00	1.09	1.17	1.30	361.00	6.89	6.83	6.97	90.00	1.67	1.73	1.74
580.00	411.00	1.28	1.29	1.28	411.00	4.77	4.72	4.82	130.00	1.65	1.71	1.72
640.00	471.00	1.56	1.57	1.59	471.00	3.42	3.38	3.46	170.00	1.62	1.67	1.68
690.00	521.00	1.77	1.84	1.87	521.00	2.68	2.65	2.71	210.00	1.59	1.64	1.64
750.00	581.00	1.91	1.97	1.97	581.00	2.19	2.18	2.24	250.00	1.52	1.57	1.57
800.00	631.00	1.99	2.01	2.03	631.00	2.02	2.00	2.06	290.00	1.51	1.55	1.55
860.00	691.00	2.07	2.10	2.10	691.00	1.96	1.91	1.94	330.00	1.45	1.49	1.49
910.00	741.00	2.08	2.08	2.08	741.00	1.92	1.88	1.87	370.00	1.44	1.47	1.47
970.00	801.00	2.16	2.14	2.07	801.00	1.81	1.74	1.65	410.00	1.38	1.40	1.40
1020.00	851.00	2.17	2.12	2.01	851.00	1.65	1.58	1.52	450.00	1.35	1.37	1.37
1080.00	911.00	2.20	2.15	2.16	911.00	1.57	1.52	1.48	490.00	1.32	1.32	1.32
1130.00	961.00	2.20	2.16	2.16	961.00	1.51	1.48	1.45	530.00	1.31	1.31	1.31
1190.00	1021.00	2.21	2.12	2.09	1021.00	1.44	1.41	1.39	570.00	1.29	1.29	1.29
1240.00	1071.00	2.12	2.04	2.03	1071.00	1.37	1.35	1.33	610.00	1.28	1.27	1.27
1300.00	1131.00	2.01	1.93	1.90	1131.00	1.30	1.28	1.27	650.00	1.28	1.27	1.26
1350.00	1181.00	1.98	1.90	1.88	1181.00	1.23	1.21	1.21	690.00	1.22	1.22	1.22
1410.00	1241.00	1.91	1.85	1.85	1241.00	1.15	1.13	1.15	730.00	1.18	1.19	1.19
1460.00	1291.00	1.80	1.74	1.74	1291.00	1.10	1.08	1.11	770.00	1.15	1.16	1.17
1520.00	1351.00	1.66	1.59	1.58	1351.00	1.06	1.03	1.06	810.00	1.17	1.18	1.19
1570.00	1401.00	1.57	1.50	1.48	1401.00	1.09	1.07	1.06	850.00	1.19	1.21	1.22
1630.00	1461.00	1.42	1.37	1.34	1461.00	1.18	1.18	1.15	890.00	1.25	1.27	1.28
1680.00	1511.00	1.28	1.22	1.20	1511.00	1.28	1.29	1.26	930.00	1.40	1.42	1.43
1740.00	1571.00	1.12	1.15	1.16	1571.00	1.44	1.47	1.45	970.00	1.58	1.60	1.60
1790.00	1621.00	1.16	1.21	1.23	1621.00	1.54	1.57	1.57	1010.00	1.67	1.68	1.69
1850.00	1681.00	1.22	1.27	1.28	1681.00	1.53	1.54	1.55	1050.00	1.74	1.76	1.76
1900.00	1731.00	1.24	1.30	1.33	1731.00	1.41	1.39	1.43	1090.00	1.83	1.84	1.85
1960.00	1791.00	1.24	1.30	1.34	1791.00	1.31	1.28	1.32	1130.00	1.95	1.96	1.96
2010.00	1841.00	1.22	1.28	1.32	1841.00	1.28	1.24	1.25	1170.00	2.08	2.09	2.09
2070.00	1901.00	1.22	1.27	1.31	1901.00	1.29	1.23	1.20	1210.00	2.19	2.20	2.19
2120.00	1951.00	1.25	1.29	1.32	1951.00	1.32	1.26	1.20	1250.00	2.28	2.28	2.27
2180.00	2011.00	1.33	1.35	1.38	2011.00	1.38	1.31	1.23	1290.00	2.24	2.23	2.22
2230.00	2061.00	1.40	1.41	1.43	2061.00	1.43	1.35	1.26	1330.00	2.21	2.20	2.19
2290.00	2121.00	1.47	1.46	1.47	2121.00	1.49	1.39	1.28	1370.00	2.55	2.55	2.55
2340.00	2171.00	1.58	1.55	1.55	2171.00	1.54	1.42	1.29	1410.00	3.07	3.07	3.08
2400.00	2231.00	1.74	1.68	1.66	2231.00	1.61	1.47	1.32	1450.00	3.54	3.54	3.54
2450.00	2281.00	1.89	1.83	1.78	2281.00	1.67	1.51	1.34	1510.00	4.01	4.01	4.00
2510.00	2341.00	2.14	2.05	1.99	2341.00	1.74	1.59	1.40	1550.00	4.25	4.25	4.24
2560.00	2391.00	2.33	2.24	2.14	2391.00	1.76	1.60	1.41	1610.00	4.13	4.11	4.09

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	6	13	13	40	38	24	45	39	53
1	-	17	+0	31	32	38	38	38	79	44	59	52
2	59	57	78	54	69	68	69	66	70	79	69	70
3	>90	>82	>82	>82	71	77	>82	>82	>82	>82	>82	>82
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1750 MHz; 0.00 dBm.

LO IN: 1581 MHz; +0.00 dBm

IF OUT: 169 MHz; -8.22 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	16	23	22	47	48	34	52	49	61
1	-	17	+0	31	32	39	38	38	75	44	61	54
2	40	47	67	44	62	59	59	57	61	70	61	62
3	71	64	64	66	52	60	74	67	82	70	87	78
4	>90	81	81	87	83	75	84	90	>91	>91	>91	>91
5	>90	>91	>91	>91	89	>91	81	85	>91	>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: 1750 MHz; 10.00 dBm.

LO IN: 1581 MHz; +0.00 dBm

IF OUT: 169 MHz; -1.00 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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