

Frequency Mixer

MACY-ED11773/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION GAIN IF FIXED @IF(OUT)=170MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		-3	0	+3			-3	0	+3			-3	0	+3
380.00	210.00	-10.92	-9.54	-11.13	380.00	210.00	8.74	9.16	10.37	380.00	210.00	5.15	5.42	5.98
460.00	290.00	6.50	6.81	5.86	460.00	290.00	9.88	10.05	12.16	460.00	290.00	4.84	4.20	3.11
540.00	370.00	10.09	10.04	9.96	540.00	370.00	21.07	21.73	22.63	540.00	370.00	2.07	2.15	2.21
620.00	450.00	9.10	9.24	9.32	620.00	450.00	15.75	17.74	18.16	620.00	450.00	1.00	1.09	1.35
700.00	530.00	7.85	7.77	6.35	700.00	530.00	18.66	14.90	15.77	700.00	530.00	0.93	1.40	1.37
790.00	620.00	7.93	8.36	8.68	790.00	620.00	19.44	20.16	18.96	790.00	620.00	0.40	0.56	0.73
870.00	700.00	7.81	8.01	7.91	870.00	700.00	15.37	15.57	15.15	870.00	700.00	0.56	0.79	1.04
960.00	790.00	7.74	7.81	7.48	960.00	790.00	19.39	17.74	16.72	960.00	790.00	0.81	0.93	1.00
1040.00	870.00	7.64	7.60	7.43	1040.00	870.00	24.20	22.44	22.16	1040.00	870.00	-0.09	-0.07	-0.05
1130.00	960.00	7.08	7.36	7.47	1130.00	960.00	16.13	15.06	16.58	1130.00	960.00	0.45	0.71	0.70
1210.00	1040.00	7.47	7.32	7.02	1210.00	1040.00	21.28	18.84	17.11	1210.00	1040.00	0.11	0.16	0.17
1300.00	1130.00	7.82	7.97	7.98	1300.00	1130.00	22.13	20.51	19.50	1300.00	1130.00	0.06	0.15	0.23
1380.00	1210.00	8.26	8.46	8.59	1380.00	1210.00	20.32	20.75	21.08	1380.00	1210.00	0.25	0.30	0.39
1470.00	1300.00	8.40	8.58	8.72	1470.00	1300.00	20.10	20.98	21.66	1470.00	1300.00	0.33	0.35	0.39
1550.00	1380.00	8.78	8.91	9.00	1550.00	1380.00	20.35	21.20	21.91	1550.00	1380.00	0.36	0.39	0.44
1640.00	1470.00	8.66	8.72	8.74	1640.00	1470.00	20.90	21.62	22.02	1640.00	1470.00	0.35	0.50	0.40
1720.00	1550.00	8.89	8.95	8.99	1720.00	1550.00	22.35	22.84	23.46	1720.00	1550.00	0.32	0.34	0.37
1810.00	1640.00	9.10	9.15	9.17	1810.00	1640.00	23.45	23.94	24.21	1810.00	1640.00	0.88	0.36	0.43
1890.00	1720.00	9.00	9.01	9.00	1890.00	1720.00	23.63	24.63	25.18	1890.00	1720.00	0.29	0.81	0.75
1980.00	1810.00	8.71	8.75	8.76	1980.00	1810.00	22.35	23.03	23.65	1980.00	1810.00	0.23	0.22	0.21
2060.00	1890.00	8.48	8.54	8.57	2060.00	1890.00	20.55	22.34	23.37	2060.00	1890.00	0.27	0.25	0.12
2150.00	1980.00	8.30	8.46	8.55	2150.00	1980.00	18.34	18.94	19.60	2150.00	1980.00	0.44	0.35	0.28
2230.00	2060.00	7.93	8.19	8.33	2230.00	2060.00	19.00	19.46	19.80	2230.00	2060.00	0.39	0.32	0.25
2320.00	2150.00	7.25	7.61	7.84	2320.00	2150.00	21.55	21.03	20.72	2320.00	2150.00	0.20	0.12	0.09
2400.00	2230.00	6.54	6.94	7.21	2400.00	2230.00	21.61	21.15	20.69	2400.00	2230.00	0.13	0.08	0.08
2490.00	2320.00	5.61	5.91	5.98	2490.00	2320.00	17.82	19.77	21.09	2490.00	2320.00	0.11	0.07	0.10
2570.00	2400.00	4.92	5.28	5.42	2570.00	2400.00	20.69	22.75	24.33	2570.00	2400.00	0.10	0.03	0.01
2660.00	2490.00	4.22	4.74	5.01	2660.00	2490.00	17.14	16.47	16.81	2660.00	2490.00	0.05	0.02	0.05
2740.00	2570.00	3.84	4.46	4.90	2740.00	2570.00	15.20	14.63	14.70	2740.00	2570.00	0.07	0.20	0.34
2830.00	2660.00	3.83	4.55	5.07	2830.00	2660.00	14.03	14.55	15.39	2830.00	2660.00	0.00	0.17	0.34
2910.00	2740.00	3.88	4.50	4.98	2910.00	2740.00	14.98	16.55	19.05	2910.00	2740.00	0.02	0.11	0.20
3000.00	2830.00	3.21	3.78	4.19	3000.00	2830.00	14.82	15.33	15.65	3000.00	2830.00	-0.48	-0.40	-0.27
3080.00	2910.00	3.21	3.96	4.54	3080.00	2910.00	14.73	15.49	16.61	3080.00	2910.00	-0.49	-0.29	-0.07
3170.00	3000.00	3.41	4.15	4.66	3170.00	3000.00	16.22	16.51	17.56	3170.00	3000.00	-0.06	0.09	0.18
3250.00	3080.00	3.62	4.41	4.83	3250.00	3080.00	15.83	16.51	17.38	3250.00	3080.00	0.00	0.15	0.18
3340.00	3170.00	3.44	4.52	4.99	3340.00	3170.00	17.71	18.42	19.37	3340.00	3170.00	-0.08	0.10	0.09
3420.00	3250.00	2.53	3.94	4.52	3420.00	3250.00	19.50	19.84	20.78	3420.00	3250.00	-0.15	0.06	0.04
3510.00	3340.00	-1.38	0.15	0.94	3510.00	3340.00	24.69	24.90	25.67	3510.00	3340.00	-0.07	0.04	0.06
3590.00	3420.00	-2.08	-0.74	-0.14	3590.00	3420.00	29.75	27.52	27.61	3590.00	3420.00	0.04	0.06	0.06
3680.00	3510.00	-3.46	-2.13	-1.66	3680.00	3510.00	25.25	25.65	27.05	3680.00	3510.00	0.08	0.10	0.09

Frequency Mixer

MACY-ED11773/2

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION GAIN VS. IF FREQUENCY @RF(IN)=1950MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION GAIN VS. IF FREQUENCY @RF(IN)=1920MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION GAIN VS. IF FREQUENCY @RF(IN)=1980.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		0			0			0
1650.00	300.00	-1.82	10.00	1930.00	-13.28	1670.00	310.10	-2.21
1570.96	379.04	3.71	50.00	1970.00	9.14	1630.00	350.10	2.46
1491.93	458.07	3.35	90.00	2010.00	9.07	1590.00	390.10	3.21
1412.89	537.11	2.25	130.00	2050.00	8.77	1550.00	430.10	3.14
1333.86	616.14	3.54	170.00	2090.00	8.38	1510.00	470.10	2.70
1254.82	695.18	2.17	210.00	2130.00	7.95	1470.00	510.10	2.31
1175.78	774.22	2.71	250.00	2170.00	7.50	1430.00	550.10	2.37
1096.75	853.25	4.40	290.00	2210.00	7.09	1390.00	590.10	3.21
1017.71	932.29	5.06	330.00	2250.00	6.43	1350.00	630.10	3.63
938.67	1011.33	4.07	370.00	2290.00	5.71	1310.00	670.10	3.40
859.64	1090.36	4.45	410.00	2330.00	5.23	1270.00	710.10	2.06
780.60	1169.40	4.60	450.00	2370.00	4.85	1230.00	750.10	1.77
701.57	1248.43	5.52	490.00	2410.00	4.46	1190.00	790.10	2.78
622.53	1327.47	6.78	530.00	2450.00	3.83	1150.00	830.10	3.76
543.49	1406.51	7.64	570.00	2490.00	3.30	1110.00	870.10	4.37
464.46	1485.54	7.67	610.00	2530.00	2.90	1070.00	910.10	4.56
385.42	1564.58	7.89	650.00	2570.00	2.56	1030.00	950.10	4.51
306.39	1643.61	8.36	690.00	2610.00	2.42	990.00	990.10	4.01
227.35	1722.65	8.82	730.00	2650.00	2.31	950.00	1030.10	4.20
128.55	1821.45	9.05	770.00	2690.00	2.21	910.00	1070.10	4.10
49.52	1900.48	9.18	810.00	2730.00	2.13	870.00	1110.10	4.34
50.96	2000.96	9.21	850.00	2770.00	1.72	820.00	1160.10	4.55
132.89	2082.89	8.65	890.00	2810.00	1.25	780.00	1200.10	4.64
235.30	2185.30	7.63	950.00	2870.00	1.32	730.00	1250.10	5.14
317.23	2267.23	6.35	990.00	2910.00	1.83	690.00	1290.10	5.77
419.64	2369.64	5.14	1050.00	2970.00	2.17	640.00	1340.10	6.58
501.57	2451.57	4.14	1090.00	3010.00	2.37	600.00	1380.10	7.01
603.98	2553.98	3.00	1150.00	3070.00	2.70	550.00	1430.10	7.42
685.90	2635.90	2.64	1190.00	3110.00	2.80	510.00	1470.10	7.44
788.31	2738.31	2.37	1250.00	3170.00	2.22	460.00	1520.10	7.52
870.24	2820.24	1.56	1290.00	3210.00	2.63	420.00	1560.10	7.63
972.65	2922.65	2.04	1350.00	3270.00	3.11	370.00	1610.10	7.95
1054.58	3004.58	2.53	1390.00	3310.00	2.95	330.00	1650.10	8.19
1156.99	3106.99	3.08	1450.00	3370.00	2.28	280.00	1700.10	8.48
1238.92	3188.92	2.50	1490.00	3410.00	1.73	240.00	1740.10	8.75
1341.33	3291.33	3.18	1550.00	3470.00	0.70	190.00	1790.10	8.69
1423.25	3373.25	2.46	1590.00	3510.00	0.49	150.00	1830.10	8.79
1525.66	3475.66	0.97	1650.00	3570.00	-0.23	100.00	1880.10	9.00
1607.59	3557.59	0.72	1690.00	3610.00	-1.77	60.00	1920.10	9.26
1710.00	3660.00	-1.60	1750.00	3670.00	-2.16	10.00	1970.10	-13.68

REV. X2

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Frequency Mixer

MACY-ED11773/2

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
210.00	46.56	47.26	47.84	42.38	44.81	45.22	380.00	210.0	24.78	25.95	26.93
290.00	48.99	49.38	51.60	25.43	26.12	28.98	460.00	290.0	14.70	11.76	8.17
370.00	38.94	41.59	42.71	4.71	6.24	8.13	540.00	370.0	9.38	9.03	8.62
450.00	35.43	36.38	36.95	12.54	16.27	18.43	620.00	450.0	17.08	13.58	10.59
530.00	33.08	35.43	35.90	25.35	26.23	31.07	700.00	530.0	14.50	13.45	14.81
620.00	26.78	28.89	30.92	19.25	20.04	21.56	790.00	620.0	17.41	16.30	17.26
700.00	24.77	26.34	28.52	24.61	25.09	24.88	870.00	700.0	27.04	21.91	20.47
790.00	29.28	30.47	32.16	13.97	14.24	14.98	960.00	790.0	9.13	7.27	6.82
870.00	29.17	25.64	24.99	9.36	8.76	9.13	1040.00	870.0	7.95	6.95	6.67
960.00	19.92	21.39	23.17	8.12	12.14	18.16	1130.00	960.0	7.53	5.09	3.96
1040.00	23.66	24.36	25.69	8.27	10.62	12.65	1210.00	1040.0	13.43	13.37	9.90
1130.00	24.96	26.36	27.94	5.30	7.24	9.16	1300.00	1130.0	13.83	13.40	13.74
1210.00	21.63	23.10	24.63	0.61	2.40	4.13	1380.00	1210.0	18.28	18.21	17.94
1300.00	24.37	26.40	28.54	2.67	4.58	6.47	1470.00	1300.0	14.51	14.44	14.17
1380.00	25.28	27.52	30.10	10.09	11.52	13.10	1550.00	1380.0	17.35	17.55	17.52
1470.00	18.35	19.87	21.34	5.64	7.44	9.26	1640.00	1470.0	27.23	26.91	26.01
1550.00	15.28	17.11	18.83	3.56	5.36	7.03	1720.00	1550.0	25.15	24.16	23.43
1640.00	18.94	21.46	23.77	1.85	3.98	6.03	1810.00	1640.0	15.25	14.88	14.74
1720.00	25.16	28.80	30.64	1.63	3.73	5.79	1890.00	1720.0	12.45	12.10	11.91
1810.00	22.70	26.01	28.97	0.12	2.10	4.26	1980.00	1810.0	13.55	13.14	12.79
1890.00	16.75	18.45	20.14	0.65	1.47	3.52	2060.00	1890.0	14.03	13.60	13.17
1980.00	16.20	17.51	18.78	1.13	3.53	5.77	2150.00	1980.0	13.76	13.42	12.92
2060.00	19.15	20.78	22.42	3.14	5.93	8.51	2230.00	2060.0	13.62	13.27	12.76
2150.00	22.57	24.57	26.37	5.22	8.02	10.92	2320.00	2150.0	14.95	14.29	13.44
2230.00	24.48	26.62	28.41	7.11	9.63	12.38	2400.00	2230.0	16.58	15.43	14.19
2320.00	25.29	26.30	26.70	9.63	11.74	13.89	2490.00	2320.0	18.38	16.63	14.20
2400.00	24.89	25.48	26.05	12.70	15.00	17.36	2570.00	2400.0	20.48	18.89	16.63
2490.00	26.06	26.38	26.59	16.94	19.64	22.59	2660.00	2490.0	25.83	24.51	22.40
2570.00	26.26	26.17	25.82	23.22	27.81	34.75	2740.00	2570.0	25.27	24.69	23.80
2660.00	26.19	26.57	26.27	35.16	30.84	28.51	2830.00	2660.0	23.96	23.62	23.30
2740.00	25.45	26.19	26.33	23.19	23.44	23.40	2910.00	2740.0	21.24	20.65	20.18
2830.00	30.85	32.02	32.25	19.71	22.00	24.12	3000.00	2830.0	20.85	20.21	19.84
2910.00	31.58	32.50	33.00	17.11	19.08	21.31	3080.00	2910.0	18.08	17.65	17.44
3000.00	28.52	29.42	30.24	16.74	18.53	20.50	3170.00	3000.0	16.11	16.09	16.13
3080.00	25.67	26.23	27.11	12.92	14.87	17.19	3250.00	3080.0	15.89	16.15	16.36
3170.00	26.85	27.09	27.72	14.24	15.99	18.22	3340.00	3170.0	15.28	15.58	15.77
3250.00	29.18	28.71	29.30	15.44	16.99	19.28	3420.00	3250.0	14.36	14.72	15.07
3340.00	28.77	27.45	27.41	11.60	11.62	12.51	3510.00	3340.0	18.95	19.76	20.41
3420.00	34.20	30.41	29.15	5.70	5.89	6.85	3590.00	3420.0	25.42	27.01	27.91
3510.00	13.94	14.36	15.72	4.07	4.73	6.06	3680.00	3510.0	18.64	19.00	19.23

Frequency Mixer

MACY-ED11773/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1810MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		-3	0	+3		-3	0	+3		-3	0	+3
380.00	210.00	2.80	2.43	1.90	270.0	6.63	6.53	6.49	10.00	7.44	7.50	7.50
460.00	290.00	1.51	1.40	1.27	350.0	3.91	4.00	4.13	50.00	1.21	1.24	1.26
540.00	370.00	1.41	1.44	1.47	430.0	3.03	3.09	3.17	90.00	1.24	1.22	1.21
620.00	450.00	1.59	1.53	1.52	510.0	2.12	2.23	2.38	130.00	1.30	1.27	1.25
700.00	530.00	1.92	1.82	1.68	590.0	1.73	1.84	2.03	170.00	1.28	1.25	1.23
790.00	620.00	2.34	2.25	2.21	680.0	2.14	2.28	2.41	210.00	1.26	1.23	1.21
870.00	700.00	2.92	2.87	2.81	760.0	2.36	2.43	2.49	250.00	1.21	1.19	1.17
960.00	790.00	3.18	2.98	2.81	850.0	2.43	2.51	2.59	290.00	1.15	1.13	1.12
1040.00	870.00	3.27	3.11	3.01	930.0	2.15	2.20	2.28	330.00	1.10	1.08	1.07
1130.00	960.00	3.02	3.04	2.95	1020.0	1.91	1.99	2.10	370.00	1.05	1.05	1.05
1210.00	1040.00	3.02	2.84	2.62	1100.0	1.71	1.81	1.94	410.00	1.03	1.05	1.07
1300.00	1130.00	3.01	2.94	2.84	1190.0	1.48	1.59	1.73	450.00	1.08	1.09	1.11
1380.00	1210.00	2.88	2.81	2.75	1270.0	1.34	1.47	1.61	490.00	1.14	1.15	1.16
1470.00	1300.00	2.77	2.71	2.66	1360.0	1.34	1.47	1.60	530.00	1.20	1.21	1.22
1550.00	1380.00	2.82	2.78	2.74	1440.0	1.45	1.57	1.70	570.00	1.27	1.27	1.28
1640.00	1470.00	1.98	1.88	1.79	1530.0	1.74	1.83	1.92	610.00	1.33	1.33	1.34
1720.00	1550.00	1.57	1.53	1.49	1610.0	2.07	2.15	2.23	650.00	1.41	1.41	1.41
1810.00	1640.00	1.38	1.36	1.34	1700.0	2.06	2.13	2.18	690.00	1.47	1.47	1.47
1890.00	1720.00	1.33	1.30	1.28	1780.0	1.70	1.77	1.83	730.00	1.55	1.54	1.54
1980.00	1810.00	1.47	1.46	1.45	1870.0	1.33	1.41	1.50	790.00	1.64	1.63	1.62
2060.00	1890.00	1.62	1.62	1.62	1950.0	1.09	1.19	1.31	830.00	1.71	1.70	1.69
2150.00	1980.00	1.79	1.77	1.76	2040.0	1.09	1.10	1.22	890.00	1.84	1.82	1.81
2230.00	2060.00	1.91	1.88	1.86	2120.0	1.20	1.15	1.23	930.00	1.85	1.83	1.81
2320.00	2150.00	2.16	2.11	2.06	2210.0	1.31	1.23	1.27	990.00	1.97	1.95	1.93
2400.00	2230.00	2.43	2.36	2.28	2290.0	1.39	1.31	1.36	1030.00	2.02	2.00	1.98
2490.00	2320.00	2.73	2.63	2.53	2380.0	1.42	1.32	1.38	1090.00	2.11	2.09	2.07
2570.00	2400.00	3.07	2.95	2.81	2460.0	1.44	1.29	1.29	1130.00	2.17	2.15	2.13
2660.00	2490.00	3.47	3.30	3.14	2550.0	1.43	1.24	1.19	1190.00	2.24	2.22	2.20
2740.00	2570.00	3.77	3.62	3.46	2630.0	1.49	1.26	1.13	1230.00	2.27	2.25	2.23
2830.00	2660.00	3.90	3.76	3.60	2720.0	1.62	1.37	1.19	1290.00	2.24	2.22	2.21
2910.00	2740.00	3.92	3.78	3.62	2800.0	1.73	1.45	1.25	1330.00	2.26	2.25	2.24
3000.00	2830.00	3.89	3.76	3.63	2890.0	1.91	1.62	1.40	1390.00	2.26	2.26	2.25
3080.00	2910.00	3.97	3.82	3.68	2970.0	2.15	1.84	1.60	1430.00	2.25	2.25	2.25
3170.00	3000.00	3.97	3.82	3.67	3060.0	2.42	2.11	1.84	1490.00	2.33	2.34	2.35
3250.00	3080.00	3.86	3.70	3.58	3140.0	2.62	2.38	2.10	1530.00	2.41	2.42	2.44
3340.00	3170.00	3.62	3.40	3.26	3230.0	2.84	2.68	2.43	1590.00	2.68	2.70	2.72
3420.00	3250.00	3.06	2.84	2.69	3310.0	3.05	2.95	2.76	1630.00	2.90	2.92	2.94
3510.00	3340.00	2.67	2.58	2.51	3400.0	3.36	3.27	3.11	1690.00	2.15	2.17	2.18
3590.00	3420.00	4.22	4.08	3.95	3480.0	3.65	3.56	3.35	1730.00	2.76	2.79	2.81
3680.00	3510.00	4.35	4.28	4.24	3570.0	3.92	3.84	3.66	1790.00	3.34	3.37	3.38

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	19	40	57	51	51	64	71	76	79
1	-	22	+0	23	32	42	70	71	69	57	75	81
2	59	58	46	39	50	58	67	78	82	86	71	94
3	>90	89	72	66	64	59	68	77	97	96	95	83
4	>90	>99	92	93	81	75	76	91	>99	>99	>99	>99
5	>90	>99	>99	99	>99	92	81	88	>99	>99	>99	>99
6	>90	>99	>99	>99	>99	>99	>99	96	94	>99	>99	>99
7	>90	>99	>99	>99	>99	>99	>99	>99	>99	93	>99	>99
8	>90	>99	>99	>99	>99	>99	>99	>99	>99	98	97	>99
9	>90	>99	>99	>99	>99	>99	>99	>99	>99	>99	95	97
10	>90	>99	>99	>99	>99	>99	>99	>99	>99	>99	>99	>99
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1950 MHz; 0.00 dBm.
LO IN: 1780 MHz; +0.00 dBm
IF OUT: 170 MHz; +8.81 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	29	46	62	60	66	63	84	76	90
1	-	23	+0	24	32	42	70	69	73	62	74	90
2	39	48	40	22	40	48	58	76	77	85	72	100
3	65	74	49	43	35	44	49	55	82	90	81	73
4	90	87	76	68	55	41	52	57	69	87	86	104
5	>90	89	88	68	64	58	53	54	60	70	88	95
6	>90	97	101	99	79	78	68	61	64	69	80	101
7	>90	96	91	105	94	81	71	75	56	62	74	86
8	>90	99	>109	91	>109	102	95	83	82	62	75	80
9	>90	>109	>109	103	101	104	104	102	86	83	69	65
10	>90	>109	>109	108	>109	95	101	104	108	93	88	94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1950 MHz; 10 dBm.
LO IN: 1780 MHz; +0 dBm
IF OUT: 170 MHz; +18.57 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.

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