

Frequency Mixer

ZX05-25MH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
+10	+13	+16	+10	+13	+16	+10	+13	+16						
5.0	35.0	7.05	7.36	6.71	10.1	40.1	27.27	26.96	26.78	10.1	40.1	1.24	0.81	0.51
10.1	40.1	7.04	6.71	6.56	109.9	139.9	23.06	23.84	23.40	109.9	139.9	1.32	0.90	0.60
109.9	139.9	7.37	7.06	6.90	209.6	239.6	21.51	20.31	20.14	209.6	239.6	1.38	0.95	0.65
209.6	239.6	7.41	7.12	6.99	309.4	339.4	18.62	18.73	20.24	309.4	339.4	1.39	0.97	0.70
309.4	339.4	7.53	7.26	7.04	409.1	439.1	17.35	18.73	22.66	409.1	439.1	1.44	1.06	0.79
409.1	439.1	7.66	7.31	7.07	508.9	538.9	17.40	20.44	25.99	508.9	538.9	1.45	1.12	0.85
508.9	538.9	7.78	7.34	7.11	608.6	638.6	17.97	22.54	27.24	608.6	638.6	1.56	1.24	0.94
608.6	638.6	7.82	7.37	7.12	708.4	738.4	18.67	25.18	24.53	708.4	738.4	1.68	1.36	1.05
708.4	738.4	7.85	7.37	7.12	808.1	838.1	19.62	24.45	24.66	808.1	838.1	1.68	1.33	1.00
808.1	838.1	7.91	7.44	7.22	907.9	937.9	22.50	22.63	22.43	907.9	937.9	1.87	1.48	1.13
907.9	937.9	7.77	7.38	7.15	1007.7	1037.7	22.65	20.94	21.10	1007.7	1037.7	1.96	1.54	1.19
1007.7	1037.7	7.70	7.33	7.14	1107.4	1137.4	19.91	19.79	20.97	1107.4	1137.4	2.03	1.62	1.28
1107.4	1137.4	7.67	7.32	7.13	1207.2	1237.2	18.65	19.31	20.03	1207.2	1237.2	1.89	1.51	1.21
1207.2	1237.2	7.83	7.49	7.28	1306.9	1336.9	18.65	19.47	20.63	1306.9	1336.9	1.73	1.39	1.12
1306.9	1336.9	8.07	7.73	7.51	1406.7	1436.7	18.77	19.78	21.01	1406.7	1436.7	1.52	1.19	0.95
1406.7	1436.7	8.34	8.02	7.79	1506.4	1536.4	18.60	20.08	20.83	1506.4	1536.4	1.40	1.06	0.82
1506.4	1536.4	8.48	8.17	7.95	1606.2	1636.2	18.34	19.43	20.15	1606.2	1636.2	1.39	1.04	0.79
1606.2	1636.2	8.50	8.16	7.98	1706.0	1736.0	18.68	19.72	20.18	1706.0	1736.0	1.26	0.96	0.72
1706.0	1736.0	8.55	8.19	7.99	1805.7	1835.7	18.19	19.19	20.23	1805.7	1835.7	1.17	0.90	0.68
1905.5	1935.5	8.71	8.28	8.03	1905.5	1935.5	17.48	19.08	20.15	1905.5	1935.5	1.01	0.76	0.58
2025.2	2055.2	8.69	8.25	8.03	2025.2	2055.2	17.09	17.99	19.03	2025.2	2055.2	0.98	0.71	0.54
2124.9	2154.9	8.69	8.26	8.05	2124.9	2154.9	17.55	18.21	19.06	2124.9	2154.9	0.89	0.64	0.47
2244.6	2274.6	8.74	8.28	8.08	2244.6	2274.6	18.02	18.68	19.24	2244.6	2274.6	0.81	0.57	0.43
2344.4	2374.4	8.65	8.19	8.00	2344.4	2374.4	17.74	18.48	19.09	2344.4	2374.4	0.81	0.58	0.43
2464.1	2494.1	8.59	8.15	7.94	2464.1	2494.1	18.45	18.87	19.67	2464.1	2494.1	0.84	0.59	0.46
2563.9	2593.9	8.65	8.19	7.98	2563.9	2593.9	18.76	19.37	20.22	2563.9	2593.9	0.80	0.56	0.44
2683.6	2713.6	8.70	8.26	8.04	2683.6	2713.6	18.90	18.81	19.58	2683.6	2713.6	0.79	0.52	0.40
2783.3	2813.3	8.64	8.19	7.98	2783.3	2813.3	19.02	18.91	19.49	2783.3	2813.3	0.87	0.58	0.44
2903.0	2933.0	8.68	8.24	8.02	2903.0	2933.0	19.11	19.14	19.39	2903.0	2933.0	0.94	0.62	0.46
3002.8	3032.8	8.72	8.27	8.07	3002.8	3032.8	18.72	18.71	19.40	3002.8	3032.8	1.04	0.69	0.51
3122.5	3152.5	8.81	8.34	8.13	3122.5	3152.5	17.81	18.43	18.69	3122.5	3152.5	1.10	0.74	0.55
3222.2	3252.2	8.86	8.42	8.20	3222.2	3252.2	16.89	17.83	18.53	3222.2	3252.2	1.23	0.84	0.63
3342.0	3372.0	9.03	8.61	8.39	3342.0	3372.0	16.42	17.29	18.14	3342.0	3372.0	1.27	0.87	0.63
3441.7	3471.7	9.16	8.73	8.50	3441.7	3471.7	15.80	16.56	17.54	3441.7	3471.7	1.43	0.99	0.74
3561.4	3591.4	9.29	8.88	8.64	3561.4	3591.4	15.06	16.22	16.86	3561.4	3591.4	1.58	1.11	0.82
3661.2	3691.2	9.37	8.99	8.77	3661.2	3691.2	14.64	15.70	16.70	3661.2	3691.2	1.70	1.24	0.94
3780.9	3810.9	9.63	9.23	9.03	3780.9	3810.9	14.08	15.08	15.94	3780.9	3810.9	1.80	1.30	1.01
3880.6	3910.6	9.85	9.47	9.27	3880.6	3910.6	13.76	14.72	15.68	3880.6	3910.6	1.78	1.28	1.00
4000.3	4030.3	10.04	9.65	9.43	4000.3	4030.3	13.02	13.92	14.69	4000.3	4030.3	1.97	1.42	1.12
4100.1	4130.1	10.40	9.99	9.74	4100.1	4130.1	13.44	14.31	15.09	4100.1	4130.1	1.79	1.27	1.01

Frequency Mixer

ZX05-25MH+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1250MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
1239.9	10.1	7.26	10.0	20.1	7.11	1500.0	1000.1	9.26
1199.6	50.4	7.39	50.8	60.9	6.98	1459.2	1040.9	9.13
1159.2	90.8	7.45	91.6	101.7	6.98	1418.4	1081.7	9.07
1118.9	131.1	7.52	132.5	142.6	6.95	1377.5	1122.6	9.00
1078.6	171.4	7.57	173.3	183.4	6.99	1336.7	1163.4	8.92
1038.3	211.7	7.60	214.1	224.2	6.98	1295.9	1204.2	8.87
997.9	252.1	7.65	254.9	265.0	6.99	1255.1	1245.0	8.87
977.8	272.2	7.67	295.8	305.9	7.02	1214.2	1285.9	8.76
937.4	312.6	7.67	336.6	346.7	7.00	1173.4	1326.7	8.69
917.3	332.7	7.73	377.4	387.5	7.00	1132.6	1367.5	8.69
876.9	373.1	7.74	418.2	428.3	6.99	1091.8	1408.3	8.66
856.8	393.2	7.73	459.0	469.1	6.98	1051.0	1449.1	8.64
816.5	433.5	7.75	499.9	510.0	6.98	1010.1	1490.0	8.63
796.3	453.7	7.70	540.7	550.8	6.94	969.3	1530.8	8.60
756.0	494.0	7.71	581.5	591.6	6.94	928.5	1571.6	8.59
735.8	514.2	7.67	622.3	632.4	6.93	887.7	1612.4	8.63
695.5	554.5	7.62	663.2	673.3	6.97	846.8	1653.3	8.61
675.3	574.7	7.63	704.0	714.1	6.99	806.0	1694.1	8.60
635.0	615.0	7.62	744.8	754.9	6.95	765.2	1734.9	8.61
614.8	635.2	7.58	785.6	795.7	6.95	724.4	1775.7	8.63
574.5	675.5	7.62	826.4	836.5	6.92	683.6	1816.5	8.66
554.3	695.7	7.54	867.3	877.4	6.92	642.7	1857.4	8.66
514.0	736.0	7.57	908.1	918.2	6.90	601.9	1898.2	8.65
493.8	756.2	7.56	948.9	959.0	6.91	561.1	1939.0	8.61
453.5	796.5	7.55	989.7	999.8	6.92	520.3	1979.8	8.58
433.3	816.7	7.58	1030.5	1040.6	6.90	479.5	2020.6	8.56
393.0	857.0	7.57	1071.4	1081.5	6.91	438.6	2061.5	8.51
372.9	877.1	7.53	1112.2	1122.3	6.90	397.8	2102.3	8.50
332.5	917.5	7.54	1153.0	1163.1	6.92	357.0	2143.1	8.43
312.4	937.6	7.54	1193.8	1203.9	6.97	316.2	2183.9	8.40
272.0	978.0	7.53	1234.7	1244.8	7.00	275.3	2224.8	8.39
251.9	998.1	7.54	1255.1	1265.2	7.03	254.9	2245.2	8.36
211.5	1038.5	7.51	1295.9	1306.0	7.05	214.1	2286.0	8.35
191.4	1058.6	7.51	1316.3	1326.4	7.08	193.7	2306.4	8.35
151.0	1099.0	7.49	1357.1	1367.2	7.13	152.9	2347.2	8.29
130.9	1119.1	7.49	1377.5	1387.6	7.18	132.5	2367.6	8.28
90.6	1159.4	7.51	1418.4	1428.5	7.23	91.6	2408.5	8.24
70.4	1179.6	7.50	1438.8	1448.9	7.27	71.2	2428.9	8.20
30.1	1219.9	7.51	1479.6	1489.7	7.32	30.4	2469.7	8.20
9.9	1240.1	7.72	1500.0	1510.1	7.35	10.0	2490.1	8.36

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Frequency Mixer

ZX05-25MH+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
5.0	45.3	49.9	54.7	30.8	34.2	37.5
10.1	49.45	53.35	56.75	31.79	34.84	37.93
109.9	48.52	48.69	48.49	32.48	35.30	37.48
209.6	42.15	42.04	42.16	32.38	34.51	35.40
309.4	38.45	38.62	38.89	32.44	33.49	33.27
409.1	35.94	36.25	36.73	32.64	32.50	31.69
508.9	34.17	34.71	35.36	32.30	31.32	30.22
608.6	32.88	33.60	34.36	31.98	30.36	29.10
708.4	31.87	32.80	33.71	31.52	29.47	28.08
808.1	31.02	32.18	33.30	30.92	28.66	27.21
907.9	30.56	31.95	33.34	29.93	27.65	26.25
1007.7	30.33	32.04	33.67	28.93	26.76	25.41
1107.4	30.22	32.18	34.11	27.91	25.89	24.59
1207.2	30.35	32.63	34.89	27.14	25.22	23.94
1306.9	30.60	33.24	35.98	26.69	24.84	23.57
1406.7	30.91	34.00	37.46	26.16	24.39	23.11
1506.4	31.32	34.99	39.73	25.85	24.14	22.89
1606.2	31.90	36.20	42.82	25.70	24.05	22.82
1706.0	32.54	37.63	47.23	25.45	23.86	22.68
1905.5	33.35	39.57	54.34	25.57	24.23	23.08
2025.2	33.54	40.35	48.15	25.28	24.27	23.28
2124.9	33.40	39.74	44.44	24.78	24.13	23.35
2244.6	33.26	39.14	42.21	24.28	24.04	23.58
2344.4	32.95	38.57	41.67	23.97	24.10	23.93
2464.1	32.87	38.35	41.20	23.63	24.08	24.27
2563.9	32.15	37.30	42.10	23.21	23.80	24.26
2683.6	31.60	36.41	42.07	23.25	23.96	24.61
2783.3	31.17	35.93	42.52	23.41	24.21	24.96
2903.0	30.75	35.31	42.54	23.74	24.63	25.52
3002.8	30.29	34.51	41.36	24.04	24.99	25.95
3122.5	29.83	33.63	39.13	24.45	25.43	26.39
3222.2	29.42	32.96	37.56	24.80	25.93	26.92
3342.0	28.82	31.83	35.09	25.15	26.41	27.56
3441.7	28.51	31.13	33.64	25.42	26.71	27.88
3561.4	28.34	30.69	32.58	25.80	27.12	28.18
3661.2	28.34	30.47	32.02	26.09	27.39	28.35
3780.9	28.56	30.42	31.60	26.55	27.77	28.57
3880.6	28.90	30.45	31.23	27.02	28.23	28.96
4000.3	29.89	31.04	31.28	27.72	28.91	29.59
4100.1	30.08	31.27	31.26	28.48	29.60	30.23

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	22.33	22.23	22.29
109.9	139.9	22.53	22.54	22.60
209.6	239.6	22.74	22.75	22.88
309.4	339.4	23.28	23.43	23.79
409.1	439.1	24.23	24.52	25.01
508.9	538.9	25.49	25.92	26.50
608.6	638.6	26.92	27.40	27.91
708.4	738.4	28.41	28.58	28.96
808.1	838.1	29.62	29.48	29.37
907.9	937.9	30.29	29.73	29.38
1007.7	1037.7	30.94	30.10	29.27
1107.4	1137.4	31.23	30.15	29.02
1207.2	1237.2	30.90	29.86	28.55
1306.9	1336.9	30.77	29.78	28.53
1406.7	1436.7	30.54	29.56	28.38
1506.4	1536.4	29.73	29.01	28.04
1606.2	1636.2	28.96	28.29	27.49
1706.0	1736.0	28.27	27.70	26.86
1805.7	1835.7	27.82	27.44	26.79
1905.5	1935.5	27.64	27.49	27.06
2025.2	2055.2	27.25	27.42	27.26
2124.9	2154.9	26.89	27.20	27.28
2244.6	2274.6	26.54	26.91	27.06
2344.4	2374.4	26.73	27.19	27.48
2464.1	2494.1	27.01	27.68	28.13
2563.9	2593.9	27.29	28.22	28.85
2683.6	2713.6	27.70	28.81	29.62
2783.3	2813.3	28.14	29.35	30.18
2903.0	2933.0	28.71	29.82	30.63
3002.8	3032.8	29.14	29.92	30.46
3122.5	3152.5	29.19	29.81	30.03
3222.2	3252.2	28.83	29.05	29.12
3342.0	3372.0	28.16	27.84	27.57
3441.7	3471.7	27.59	26.97	26.45
3561.4	3591.4	26.95	26.20	25.56
3661.2	3691.2	26.45	25.73	25.18
3780.9	3810.9	25.59	25.00	24.67
3880.6	3910.6	24.54	24.07	23.84
4000.3	4030.3	23.47	23.11	22.92
4100.1	4130.1	22.89	22.64	22.50

Frequency Mixer

ZX05-25MH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2500.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
5.0	35.0	1.28	1.35	1.42	5.0	1.63	2.37	3.26	5.0	1.33	1.50	1.61
10.1	40.1	1.11	1.18	1.25	10.1	1.58	2.23	2.95	10.1	1.23	1.68	1.71
109.9	139.9	1.05	1.14	1.21	109.9	1.56	2.15	2.89	50.4	1.25	1.49	1.65
209.6	239.6	1.03	1.11	1.16	209.6	1.56	2.13	2.85	90.6	1.27	1.49	1.67
309.4	339.4	1.05	1.05	1.10	309.4	1.58	2.15	2.85	130.9	1.27	1.51	1.67
409.1	439.1	1.10	1.06	1.08	409.1	1.59	2.13	2.80	171.2	1.30	1.53	1.70
508.9	538.9	1.17	1.12	1.11	508.9	1.57	2.08	2.72	211.5	1.29	1.52	1.69
608.6	638.6	1.26	1.21	1.19	608.6	1.57	2.06	2.66	251.7	1.31	1.52	1.68
708.4	738.4	1.37	1.31	1.27	708.4	1.57	2.01	2.57	292.0	1.31	1.52	1.68
808.1	838.1	1.49	1.42	1.38	808.1	1.54	1.95	2.48	332.3	1.30	1.51	1.66
907.9	937.9	1.61	1.54	1.49	907.9	1.51	1.90	2.40	372.5	1.32	1.53	1.68
1007.7	1037.7	1.75	1.68	1.63	1007.7	1.49	1.85	2.33	412.8	1.30	1.50	1.65
1107.4	1137.4	1.87	1.79	1.73	1107.4	1.51	1.82	2.26	453.1	1.33	1.53	1.68
1207.2	1237.2	2.00	1.91	1.84	1207.2	1.55	1.78	2.17	493.3	1.33	1.53	1.69
1306.9	1336.9	2.15	2.05	1.98	1306.9	1.59	1.75	2.08	533.6	1.35	1.54	1.69
1406.7	1436.7	2.30	2.20	2.13	1406.7	1.62	1.70	2.00	573.9	1.36	1.56	1.71
1506.4	1536.4	2.38	2.30	2.22	1506.4	1.65	1.66	1.92	614.2	1.35	1.54	1.68
1606.2	1636.2	2.42	2.34	2.27	1606.2	1.67	1.62	1.83	654.4	1.36	1.55	1.69
1706.0	1736.0	2.47	2.37	2.31	1706.0	1.68	1.57	1.75	694.7	1.34	1.52	1.65
1805.7	1835.7	2.49	2.39	2.32	1805.7	1.69	1.52	1.66	735.0	1.33	1.50	1.63
1905.5	1935.5	2.49	2.39	2.31	1905.5	1.69	1.47	1.57	775.2	1.33	1.50	1.63
2025.2	2055.2	2.48	2.37	2.29	2025.2	1.69	1.40	1.46	815.5	1.33	1.49	1.61
2124.9	2154.9	2.44	2.33	2.25	2124.9	1.67	1.34	1.36	855.8	1.34	1.50	1.63
2244.6	2274.6	2.37	2.26	2.17	2244.6	1.65	1.26	1.25	896.0	1.32	1.47	1.59
2344.4	2374.4	2.32	2.20	2.12	2344.4	1.65	1.21	1.17	936.3	1.33	1.48	1.59
2464.1	2494.1	2.28	2.15	2.06	2464.1	1.62	1.17	1.12	976.6	1.32	1.47	1.59
2563.9	2593.9	2.24	2.11	2.01	2563.9	1.67	1.22	1.14	1016.9	1.32	1.45	1.56
2683.6	2713.6	2.18	2.05	1.96	2683.6	1.67	1.27	1.25	1057.1	1.32	1.46	1.56
2783.3	2813.3	2.17	2.04	1.94	2783.3	1.68	1.34	1.35	1097.4	1.29	1.41	1.51
2903.0	2933.0	2.17	2.02	1.92	2903.0	1.71	1.45	1.51	1137.7	1.29	1.40	1.50
3002.8	3032.8	2.14	1.99	1.88	3002.8	1.73	1.56	1.66	1177.9	1.28	1.38	1.48
3122.5	3152.5	2.09	1.95	1.84	3122.5	1.78	1.68	1.81	1218.2	1.27	1.37	1.46
3222.2	3252.2	2.06	1.92	1.82	3222.2	1.80	1.78	1.96	1258.5	1.26	1.37	1.46
3342.0	3372.0	2.03	1.89	1.78	3342.0	1.86	1.93	2.14	1298.7	1.23	1.32	1.40
3441.7	3471.7	1.99	1.86	1.75	3441.7	1.92	2.05	2.29	1318.9	1.24	1.32	1.40
3561.4	3591.4	1.93	1.82	1.73	3561.4	2.02	2.23	2.51	1359.2	1.23	1.30	1.38
3661.2	3691.2	1.89	1.79	1.71	3661.2	2.10	2.37	2.66	1379.3	1.22	1.29	1.37
3780.9	3810.9	1.81	1.73	1.67	3780.9	2.25	2.57	2.89	1419.6	1.21	1.27	1.34
3880.6	3910.6	1.73	1.68	1.64	3880.6	2.37	2.73	3.05	1439.7	1.19	1.25	1.32
4000.3	4030.3	1.64	1.63	1.62	4000.3	2.53	2.92	3.24	1480.0	1.18	1.22	1.28
4100.1	4130.1	1.59	1.60	1.61	4100.1	2.61	3.03	3.36	1500.1	1.17	1.20	1.26

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+2	12	19	21	21	28	18	40	35	47
1	-	24	+0	32	13	38	20	42	30	39	38	39
2	86	52	55	50	57	49	54	61	61	57	48	58
3	>100	72	55	70	58	71	58	74	63	72	64	77
4	>100	>86	>86	86	>86	82	>86	80	>86	>86	>86	85
5	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
6	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
7	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
8	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
9	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
10	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1250.1 MHz; -6.00 dBm.
LO IN: 1280.01 MHz; +13.00 dBm
IF OUT: 29.91 MHz; -13.56 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	22	31	34	33	45	32	61	54	67
1	-	23	+0	31	14	39	21	45	32	45	43	49
2	70	45	46	54	44	45	43	51	51	64	42	55
3	>100	49	36	50	41	59	40	56	51	58	70	55
4	>100	49	66	52	60	53	63	53	63	60	65	65
5	>100	54	49	62	54	68	51	59	53	64	59	59
6	87	64	66	65	70	83	77	76	81	68	72	67
7	>100	79	68	68	70	73	71	69	73	76	66	73
8	>100	95	80	77	80	74	86	79	>96	72	89	72
9	>100	88	>96	83	80	86	82	84	85	79	76	76
10	>100	96	92	>96	89	92	95	90	90	>96	89	83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1250.1 MHz; 4.00 dBm.
LO IN: 1280.01 MHz; +13.00 dBm
IF OUT: 29.91 MHz; -3.8 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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