

Frequency Mixer

ZX05-30W+

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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
130.1	160.1	17.67	10.65	7.86	130.1	160.1	-2.61	4.73	15.81	130.1	160.1	-3.87	-0.89	0.15
229.4	259.4	6.64	5.86	5.54	229.4	259.4	11.78	18.64	20.07	229.4	259.4	1.71	1.13	0.85
328.6	358.6	5.58	5.22	4.97	328.6	358.6	14.99	18.93	20.73	328.6	358.6	1.89	1.44	1.22
427.9	457.9	5.37	5.01	4.75	427.9	457.9	15.05	14.83	15.77	427.9	457.9	2.06	1.68	1.51
527.2	557.2	5.26	4.98	4.77	527.2	557.2	13.86	22.70	17.38	527.2	557.2	2.08	1.78	1.58
626.4	656.4	5.08	4.79	4.60	626.4	656.4	11.14	12.53	14.62	626.4	656.4	2.40	2.05	1.74
725.7	755.7	5.68	5.17	4.84	725.7	755.7	9.70	13.34	16.31	725.7	755.7	2.46	2.18	1.93
825.0	855.0	6.39	5.69	5.20	825.0	855.0	8.30	10.27	11.32	825.0	855.0	2.07	1.99	1.83
924.2	954.2	6.88	6.24	5.73	924.2	954.2	5.35	6.87	8.87	924.2	954.2	1.57	1.45	1.36
1023.5	1053.5	6.81	6.43	6.09	1023.5	1053.5	7.32	8.26	9.91	1023.5	1053.5	1.33	1.11	0.97
1122.8	1152.8	6.53	6.38	6.28	1122.8	1152.8	9.70	10.54	11.11	1122.8	1152.8	1.02	0.82	0.66
1222.1	1252.1	6.03	5.91	5.85	1222.1	1252.1	14.71	12.58	14.29	1222.1	1252.1	0.70	0.51	0.42
1321.3	1351.3	5.64	5.44	5.38	1321.3	1351.3	9.28	12.14	16.99	1321.3	1351.3	1.02	0.73	0.52
1420.6	1450.6	7.57	7.00	6.61	1420.6	1450.6	9.05	10.69	12.22	1420.6	1450.6	1.00	0.92	0.85
1519.9	1549.9	8.31	7.73	7.35	1519.9	1549.9	10.11	11.40	12.64	1519.9	1549.9	0.48	0.43	0.42
1619.1	1649.1	7.87	7.44	7.19	1619.1	1649.1	12.26	13.88	13.87	1619.1	1649.1	0.63	0.48	0.45
1718.4	1748.4	7.71	7.33	7.14	1718.4	1748.4	11.84	13.47	17.16	1718.4	1748.4	0.60	0.44	0.38
1817.7	1847.7	7.89	7.45	7.25	1817.7	1847.7	12.57	13.35	14.10	1817.7	1847.7	0.44	0.36	0.28
1916.9	1946.9	8.00	7.50	7.22	1916.9	1946.9	12.27	12.46	13.25	1916.9	1946.9	0.42	0.30	0.23
2016.2	2046.2	8.06	7.48	7.18	2016.2	2046.2	12.52	13.50	14.37	2016.2	2046.2	0.43	0.30	0.24
2135.3	2165.3	8.19	7.54	7.19	2135.3	2165.3	10.85	12.45	14.96	2135.3	2165.3	0.36	0.29	0.25
2234.6	2264.6	8.21	7.54	7.20	2234.6	2264.6	10.11	12.40	12.31	2234.6	2264.6	0.40	0.32	0.29
2353.7	2383.7	8.04	7.35	7.00	2353.7	2383.7	9.89	10.70	11.37	2353.7	2383.7	0.50	0.41	0.34
2453.0	2483.0	7.87	7.22	6.84	2453.0	2483.0	9.56	10.79	11.82	2453.0	2483.0	0.69	0.53	0.40
2572.1	2602.1	7.76	7.06	6.72	2572.1	2602.1	8.96	10.54	11.02	2572.1	2602.1	0.87	0.67	0.53
2671.4	2701.4	7.65	6.93	6.61	2671.4	2701.4	6.50	8.14	9.01	2671.4	2701.4	1.01	0.82	0.71
2790.5	2820.5	7.55	6.69	6.42	2790.5	2820.5	7.10	8.82	10.43	2790.5	2820.5	0.90	0.67	0.56
2889.8	2919.8	7.26	6.40	6.15	2889.8	2919.8	7.25	8.94	10.28	2889.8	2919.8	0.91	0.65	0.54
3008.9	3038.9	6.76	6.11	5.85	3008.9	3038.9	6.52	7.91	9.54	3008.9	3038.9	1.00	0.70	0.61
3108.1	3138.1	6.45	5.89	5.66	3108.1	3138.1	6.18	7.56	9.10	3108.1	3138.1	1.18	0.90	0.75
3227.3	3257.3	6.17	5.68	5.49	3227.3	3257.3	6.47	7.78	9.18	3227.3	3257.3	1.29	0.94	0.90
3326.5	3356.5	6.05	5.63	5.43	3326.5	3356.5	6.93	8.17	9.69	3326.5	3356.5	1.44	1.13	1.08
3445.7	3475.7	6.05	5.66	5.46	3445.7	3475.7	7.45	9.09	10.36	3445.7	3475.7	1.51	1.17	1.10
3544.9	3574.9	6.19	5.85	5.66	3544.9	3574.9	8.47	9.76	11.50	3544.9	3574.9	1.51	1.17	1.10
3664.1	3694.1	6.50	6.18	6.01	3664.1	3694.1	9.84	10.96	12.26	3664.1	3694.1	1.53	1.09	0.98
3763.3	3793.3	6.99	6.64	6.47	3763.3	3793.3	10.52	12.02	12.83	3763.3	3793.3	1.58	1.06	0.88
3882.4	3912.4	7.83	7.34	7.16	3882.4	3912.4	9.88	13.61	14.45	3882.4	3912.4	1.79	1.00	0.75
3981.7	4011.7	8.66	8.00	7.78	3981.7	4011.7	8.40	12.37	15.21	3981.7	4011.7	1.93	0.99	0.62
4100.8	4130.8	10.05	8.95	8.63	4100.8	4130.8	6.99	10.82	15.34	4100.8	4130.8	1.97	1.09	0.57
4200.1	4230.1	11.71	9.92	9.34	4200.1	4230.1	7.18	9.13	14.28	4200.1	4230.1	1.48	1.19	0.64

Frequency Mixer

ZX05-30W+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2000.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=300.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
950.0	1050.1	8.67	10.0	310.1	5.35	950.0	3050.1	8.36
930.0	1070.1	8.67	30.0	330.1	5.26	930.0	3070.1	8.32
910.0	1090.1	8.64	50.0	350.1	5.35	910.0	3090.1	8.36
890.0	1110.1	8.68	70.0	370.1	5.38	890.0	3110.1	8.33
870.0	1130.1	8.72	90.0	390.1	5.36	870.0	3130.1	8.33
850.0	1150.1	8.68	110.0	410.1	5.35	850.0	3150.1	8.32
830.0	1170.1	8.71	130.0	430.1	5.33	830.0	3170.1	8.28
810.0	1190.1	8.73	150.0	450.1	5.33	810.0	3190.1	8.28
790.0	1210.1	8.70	170.0	470.1	5.37	790.0	3210.1	8.26
770.0	1230.1	8.69	190.0	490.1	5.39	770.0	3230.1	8.24
750.0	1250.1	8.62	210.0	510.1	5.40	750.0	3250.1	8.26
730.0	1270.1	8.55	230.0	530.1	5.38	730.0	3270.1	8.25
710.0	1290.1	8.50	250.0	550.1	5.38	710.0	3290.1	8.25
690.0	1310.1	8.37	270.0	570.1	5.33	690.0	3310.1	8.19
670.0	1330.1	8.32	290.0	590.1	5.25	670.0	3330.1	8.19
650.0	1350.1	8.30	310.0	610.1	5.19	650.0	3350.1	8.18
630.0	1370.1	8.33	330.0	630.1	5.09	630.0	3370.1	8.18
610.0	1390.1	8.38	350.0	650.1	5.03	610.0	3390.1	8.17
590.0	1410.1	8.45	370.0	670.1	4.99	590.0	3410.1	8.17
570.0	1430.1	8.52	390.0	690.1	4.92	570.0	3430.1	8.16
550.0	1450.1	8.57	410.0	710.1	4.92	550.0	3450.1	8.15
530.0	1470.1	8.61	430.0	730.1	4.91	530.0	3470.1	8.16
510.0	1490.1	8.60	450.0	750.1	4.86	510.0	3490.1	8.16
490.0	1510.1	8.60	470.0	770.1	4.86	490.0	3510.1	8.17
450.1	1550.0	8.60	510.0	810.1	5.00	450.0	3550.1	8.17
430.1	1570.0	8.54	530.0	830.1	5.12	430.0	3570.1	8.22
390.1	1610.0	8.09	570.0	870.1	5.35	390.0	3610.1	8.21
370.1	1630.0	7.89	590.0	890.1	5.47	370.0	3630.1	8.25
330.1	1670.0	7.71	630.0	930.1	5.58	330.0	3670.1	8.29
310.1	1690.0	7.65	650.0	950.1	5.59	310.0	3690.1	8.32
270.1	1730.0	7.60	690.0	990.1	5.57	270.0	3730.1	8.38
250.1	1750.0	7.57	710.0	1010.1	5.55	250.0	3750.1	8.43
210.1	1790.0	7.55	750.0	1050.1	5.24	210.0	3790.1	8.44
190.1	1810.0	7.56	770.0	1070.1	5.11	190.0	3810.1	8.46
150.1	1850.0	7.53	810.0	1110.1	5.00	150.0	3850.1	8.51
130.1	1870.0	7.54	830.0	1130.1	4.99	130.0	3870.1	8.48
90.1	1910.0	7.53	870.0	1170.1	4.98	90.0	3910.1	8.42
70.1	1930.0	7.51	890.0	1190.1	4.96	70.0	3930.1	8.39
30.1	1970.0	7.44	930.0	1230.1	4.97	30.0	3970.1	8.26
10.1	1990.0	7.62	950.0	1250.1	4.99	10.0	3990.1	8.36

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
130.1	76.06	73.17	65.95	51.03	48.90	45.49
230.1	50.09	50.44	50.99	42.40	39.93	37.12
330.1	44.67	46.93	49.09	34.64	33.03	32.07
430.1	41.61	44.27	46.89	30.39	29.79	29.09
530.1	40.01	42.47	44.70	27.27	27.16	26.75
630.1	38.20	39.65	40.73	25.37	26.21	26.24
730.1	37.19	38.61	39.59	23.80	25.13	25.70
830.1	36.62	38.43	39.84	22.83	24.52	25.84
930.1	35.96	37.61	39.49	23.02	24.95	26.40
1030.1	35.43	37.23	39.07	21.89	24.42	26.43
1130.1	35.93	37.95	39.97	20.46	22.14	23.33
1230.1	37.22	39.61	41.82	18.25	19.07	19.42
1330.1	36.89	39.25	41.35	15.98	16.38	16.45
1430.1	34.63	37.57	40.23	14.08	14.38	14.49
1530.1	35.20	38.47	41.52	12.75	13.25	13.42
1630.1	34.61	37.73	41.01	11.97	12.65	12.82
1730.1	34.01	36.76	39.51	11.12	11.94	12.44
1830.1	33.52	36.04	38.59	10.73	11.72	12.32
1930.1	33.70	36.34	38.94	10.91	11.91	12.56
2030.1	34.14	37.18	40.08	11.28	12.30	12.91
2130.1	34.36	37.60	40.87	11.77	12.73	13.44
2230.1	34.61	37.58	40.07	12.30	13.31	13.96
2330.1	35.01	37.29	38.48	12.69	13.63	14.21
2430.1	35.45	36.38	36.40	12.89	13.75	14.39
2550.1	34.56	33.74	32.58	13.09	13.87	14.33
2650.1	31.33	29.90	28.95	13.02	13.82	14.14
2770.1	26.81	26.12	26.01	12.79	13.52	13.67
2870.1	26.59	26.72	26.80	12.48	12.99	13.14
2990.1	29.37	28.79	27.81	12.03	12.46	12.71
3090.1	31.25	29.69	27.62	11.53	12.18	12.35
3210.1	33.14	29.84	27.32	11.13	11.96	12.45
3310.1	33.91	30.00	27.49	11.09	12.15	12.95
3430.1	33.68	30.43	28.26	11.34	12.75	13.94
3530.1	33.47	30.77	29.16	12.17	13.72	15.22
3650.1	33.14	31.54	30.48	13.86	15.61	17.33
3750.1	33.33	32.58	31.68	15.95	17.78	19.48
3870.1	33.74	33.69	33.09	18.64	20.25	21.77
3970.1	33.64	34.70	33.91	19.83	20.66	21.90
4090.1	33.01	35.56	34.96	20.08	19.73	20.65
4190.1	32.39	35.58	35.64	20.03	19.39	19.76

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
130.1	160.1	34.50	31.63	29.04
230.1	260.1	26.10	25.46	25.22
330.1	360.1	24.31	24.06	23.87
430.1	460.1	24.50	24.17	24.08
530.1	560.1	27.46	27.20	26.93
630.1	660.1	30.16	30.19	30.27
730.1	760.1	34.22	32.92	31.91
830.1	860.1	29.04	28.60	28.14
930.1	960.1	25.69	25.57	25.47
1030.1	1060.1	23.34	23.34	23.42
1130.1	1160.1	22.98	22.84	22.86
1230.1	1260.1	23.74	23.60	23.51
1330.1	1360.1	23.26	23.19	23.02
1430.1	1460.1	21.35	21.24	21.15
1530.1	1560.1	24.37	24.25	24.13
1630.1	1660.1	27.27	27.29	27.39
1730.1	1760.1	29.49	29.52	29.65
1830.1	1860.1	29.68	29.69	29.70
1930.1	1960.1	27.95	28.00	28.03
2030.1	2060.1	26.27	26.27	26.31
2130.1	2160.1	24.85	24.85	24.90
2230.1	2260.1	23.78	23.82	23.85
2330.1	2360.1	23.07	23.08	23.15
2430.1	2460.1	22.64	22.64	22.74
2550.1	2580.1	22.41	22.42	22.51
2650.1	2680.1	22.30	22.35	22.46
2770.1	2800.1	21.92	22.03	22.18
2870.1	2900.1	21.08	21.31	21.57
2990.1	3020.1	20.97	21.31	21.65
3090.1	3120.1	21.26	21.58	21.91
3210.1	3240.1	22.04	22.31	22.58
3310.1	3340.1	23.00	23.26	23.58
3430.1	3460.1	24.36	24.76	25.15
3530.1	3560.1	25.56	26.13	26.66
3650.1	3680.1	25.17	25.74	26.20
3750.1	3780.1	22.79	23.16	23.43
3870.1	3900.1	19.56	19.95	20.09
3970.1	4000.1	17.07	17.70	17.90
4090.1	4120.1	14.63	15.64	16.09
4190.1	4220.1	13.13	14.13	15.03

Frequency Mixer

ZX05-30W+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=4000.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
130.1	160.1	16.26	8.20	5.85	130.1	59.91	49.64	31.60	10.1	2.81	2.05	1.89
230.1	260.1	2.82	2.51	2.40	230.1	14.62	9.08	8.55	30.1	2.57	2.08	1.84
330.1	360.1	1.71	1.61	1.56	330.1	4.84	5.31	6.51	50.1	2.49	2.07	1.81
430.1	460.1	1.33	1.24	1.19	430.1	3.38	4.37	5.70	70.1	2.44	2.02	1.76
530.1	560.1	1.31	1.22	1.16	530.1	2.84	3.87	5.16	90.1	2.48	2.05	1.81
630.1	660.1	1.55	1.45	1.38	630.1	2.55	3.52	4.69	110.1	2.52	2.07	1.83
730.1	760.1	2.17	2.02	1.91	730.1	2.39	3.22	4.26	130.1	2.47	2.04	1.80
830.1	860.1	3.15	2.89	2.69	830.1	2.32	3.01	3.90	150.1	2.40	1.97	1.74
930.1	960.1	3.88	3.63	3.42	930.1	2.15	2.72	3.48	170.1	2.38	1.96	1.73
1030.1	1060.1	3.99	3.86	3.73	1030.1	1.94	2.40	3.08	190.1	2.37	1.97	1.75
1130.1	1160.1	3.57	3.55	3.54	1130.1	1.73	2.11	2.72	210.1	2.38	1.97	1.75
1230.1	1260.1	3.08	3.02	3.01	1230.1	1.66	1.96	2.49	230.1	2.33	1.94	1.72
1330.1	1360.1	2.68	2.46	2.34	1330.1	1.60	1.89	2.39	250.1	2.28	1.90	1.70
1430.1	1460.1	3.68	3.42	3.21	1430.1	1.55	1.87	2.37	270.1	2.25	1.88	1.68
1530.1	1560.1	4.91	4.59	4.35	1530.1	1.51	1.89	2.41	290.1	2.26	1.88	1.69
1630.1	1660.1	4.56	4.32	4.13	1630.1	1.49	1.91	2.46	310.1	2.23	1.86	1.68
1730.1	1760.1	4.48	4.24	4.09	1730.1	1.62	2.01	2.55	330.1	2.19	1.83	1.66
1830.1	1860.1	4.43	4.15	3.94	1830.1	1.85	2.18	2.69	350.1	2.16	1.80	1.64
1930.1	1960.1	4.38	4.05	3.81	1930.1	2.07	2.37	2.86	370.1	2.14	1.80	1.65
2030.1	2060.1	4.42	4.08	3.82	2030.1	2.32	2.56	3.02	390.1	2.12	1.78	1.64
2130.1	2160.1	4.50	4.11	3.85	2130.1	2.58	2.75	3.16	410.1	2.10	1.76	1.63
2230.1	2260.1	4.23	3.88	3.62	2230.1	2.84	2.90	3.22	430.1	2.07	1.74	1.62
2330.1	2360.1	3.98	3.64	3.38	2330.1	3.12	2.99	3.21	450.1	2.07	1.74	1.63
2430.1	2460.1	3.95	3.64	3.30	2430.1	3.30	3.02	3.14	470.1	2.03	1.73	1.63
2550.1	2580.1	3.64	3.31	3.06	2550.1	3.47	2.95	2.95	510.1	2.01	1.71	1.62
2650.1	2680.1	3.17	2.81	2.58	2650.1	3.50	2.78	2.65	530.1	1.97	1.68	1.62
2770.1	2800.1	2.63	2.27	2.12	2770.1	3.35	2.49	2.23	570.1	1.96	1.68	1.63
2870.1	2900.1	2.53	2.23	2.07	2870.1	3.40	2.40	2.00	590.1	1.95	1.67	1.63
2990.1	3020.1	2.32	2.03	1.84	2990.1	3.26	2.20	1.67	630.1	1.89	1.63	1.61
3090.1	3120.1	1.99	1.72	1.57	3090.1	2.90	1.95	1.41	650.1	1.86	1.62	1.61
3210.1	3240.1	1.66	1.43	1.31	3210.1	2.41	1.70	1.34	690.1	1.82	1.58	1.59
3310.1	3340.1	1.45	1.26	1.17	3310.1	2.02	1.62	1.57	710.1	1.80	1.57	1.58
3430.1	3460.1	1.11	1.10	1.19	3430.1	1.71	1.75	2.01	750.1	1.75	1.55	1.59
3530.1	3560.1	1.10	1.26	1.38	3530.1	1.71	2.04	2.48	770.1	1.74	1.54	1.58
3650.1	3680.1	1.32	1.50	1.63	3650.1	1.99	2.51	3.10	810.1	1.69	1.51	1.57
3750.1	3780.1	1.57	1.75	1.91	3750.1	2.47	3.04	3.69	830.1	1.67	1.51	1.57
3870.1	3900.1	1.92	2.15	2.33	3870.1	3.37	3.85	4.47	870.1	1.63	1.48	1.55
3970.1	4000.1	2.21	2.50	2.73	3970.1	4.32	4.57	5.03	890.1	1.59	1.45	1.53
4090.1	4120.1	2.54	2.80	3.10	4090.1	5.65	5.65	5.83	930.1	1.54	1.43	1.54
4190.1	4220.1	3.04	3.11	3.46	4190.1	6.73	6.53	6.49	950.1	1.51	1.42	1.53

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+16	20	5	34	17	38	37	48	34	52
1	-	17	+0	42	26	48	33	47	36	52	48	67
2	>100	58	51	51	49	63	52	64	58	78	65	76
3	>100	74	65	>79	64	>79	71	>79	72	>79	68	>79
4	92	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
5	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
6	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2150.1 MHz; -14.00 dBm.
LO IN: 2180.01 MHz; +7.00 dBm
IF OUT: 29.91 MHz; -21.37 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+6	31	16	44	29	50	48	71	47	65
1	-	17	+0	43	25	48	34	51	41	58	57	82
2	79	49	41	42	40	54	44	59	49	68	66	76
3	>100	54	46	69	43	68	56	67	53	76	54	73
4	79	75	72	68	67	64	65	69	65	66	76	79
5	>100	>89	88	80	69	81	61	88	69	78	69	77
6	>100	>89	>89	89	>89	>89	>89	76	85	80	83	78
7	>100	>89	>89	>89	>89	>89	>89	>89	79	>89	84	89
8	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2150.1 MHz; -4.00 dBm.
LO IN: 2180.01 MHz; +7.00 dBm
IF OUT: 29.91 MHz; -11.35 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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