

Frequency Mixer

SYXM-ED13232A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+13dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
200.1	130.1	8.74	8.66	8.59	200.1	130.1	20.97	22.77	24.45	200.1	130.1	0.43	0.23	0.13
280.1	210.1	6.94	6.89	6.86	280.1	210.1	20.68	21.95	23.48	280.1	210.1	0.48	0.26	0.15
360.1	290.1	5.71	5.64	5.59	360.1	290.1	19.08	20.83	22.68	360.1	290.1	0.65	0.38	0.23
440.1	370.1	7.55	7.47	7.21	440.1	370.1	10.15	12.53	16.26	440.1	370.1	3.08	3.09	2.69
520.1	450.1	6.96	6.95	6.93	520.1	450.1	24.14	26.35	29.18	520.1	450.1	0.40	0.21	0.12
600.1	530.1	6.91	6.91	6.90	600.1	530.1	23.50	25.77	28.38	600.1	530.1	0.40	0.21	0.12
680.1	610.1	6.95	6.96	6.95	680.1	610.1	22.29	24.62	27.41	680.1	610.1	0.59	0.32	0.18
760.1	690.1	7.22	7.21	7.18	760.1	690.1	21.50	23.23	25.59	760.1	690.1	0.73	0.37	0.22
840.1	770.1	7.29	7.28	7.23	840.1	770.1	21.73	23.70	26.27	840.1	770.1	0.73	0.41	0.22
920.1	850.1	7.11	7.08	7.03	920.1	850.1	21.85	24.25	27.26	920.1	850.1	0.75	0.43	0.23
1000.1	930.1	7.28	7.26	7.21	1000.1	930.1	22.13	24.75	27.78	1000.1	930.1	0.65	0.37	0.20
1080.1	1010.1	7.37	7.36	7.32	1080.1	1010.1	23.55	26.42	29.74	1080.1	1010.1	0.62	0.32	0.17
1180.1	1110.1	7.21	7.19	7.14	1180.1	1110.1	24.02	26.94	30.40	1180.1	1110.1	0.73	0.35	0.17
1260.1	1190.1	7.00	6.95	6.89	1260.1	1190.1	23.74	27.14	30.93	1260.1	1190.1	0.87	0.38	0.16
1360.1	1290.1	6.97	6.88	6.81	1360.1	1290.1	22.15	24.67	27.78	1360.1	1290.1	0.97	0.44	0.20
1440.1	1370.1	7.01	6.92	6.84	1440.1	1370.1	20.97	23.27	26.42	1440.1	1370.1	1.03	0.49	0.23
1540.1	1470.1	7.26	7.20	7.14	1540.1	1470.1	20.80	23.23	26.35	1540.1	1470.1	0.99	0.48	0.25
1620.1	1550.1	7.40	7.35	7.30	1620.1	1550.1	21.49	24.25	27.68	1620.1	1550.1	0.87	0.41	0.21
1720.1	1650.1	7.53	7.48	7.43	1720.1	1650.1	21.81	24.66	28.08	1720.1	1650.1	0.76	0.38	0.20
1800.1	1730.1	7.79	7.73	7.68	1800.1	1730.1	22.74	25.82	29.53	1800.1	1730.1	0.64	0.31	0.16
1900.1	1830.1	8.13	8.12	8.10	1900.1	1830.1	23.96	28.15	31.67	1900.1	1830.1	0.52	0.25	0.12
1980.1	1910.1	8.54	8.56	8.55	1980.1	1910.1	24.72	28.95	32.90	1980.1	1910.1	0.43	0.20	0.10
2080.1	2010.1	8.58	8.63	8.63	2080.1	2010.1	24.46	28.18	32.01	2080.1	2010.1	0.62	0.29	0.13
2160.1	2090.1	8.77	8.80	8.78	2160.1	2090.1	23.37	26.79	31.13	2160.1	2090.1	0.63	0.30	0.14
2260.1	2190.1	8.96	8.95	8.92	2260.1	2190.1	22.24	25.42	29.06	2260.1	2190.1	0.76	0.37	0.18
2340.1	2270.1	9.18	9.12	9.06	2340.1	2270.1	21.91	24.28	27.30	2340.1	2270.1	0.85	0.42	0.21
2440.1	2370.1	9.45	9.34	9.25	2440.1	2370.1	22.47	24.21	26.95	2440.1	2370.1	1.00	0.44	0.20
2520.1	2450.1	9.61	9.47	9.36	2520.1	2450.1	22.30	26.88	28.53	2520.1	2450.1	1.32	0.56	0.23
2620.1	2550.1	9.98	9.80	9.65	2620.1	2550.1	21.33	26.86	27.90	2620.1	2550.1	1.71	0.80	0.32
2700.1	2630.1	10.17	9.91	9.74	2700.1	2630.1	19.74	23.05	26.08	2700.1	2630.1	2.08	0.98	0.45
2800.1	2730.1	10.49	10.21	10.04	2800.1	2730.1	19.31	23.10	25.18	2800.1	2730.1	2.20	1.06	0.47
2880.1	2810.1	10.46	10.14	9.91	2880.1	2810.1	17.76	27.28	26.13	2880.1	2810.1	2.43	1.42	0.62
2980.1	2910.1	10.37	10.01	9.75	2980.1	2910.1	15.74	19.58	22.88	2980.1	2910.1	2.96	1.94	0.92
3060.1	2990.1	10.29	9.82	9.49	3060.1	2990.1	14.18	17.05	20.76	3060.1	2990.1	3.54	2.39	1.31
3160.1	3090.1	10.09	9.51	9.06	3160.1	3090.1	13.08	15.68	19.79	3160.1	3090.1	4.34	3.14	1.91
3240.1	3170.1	10.07	9.45	8.93	3240.1	3170.1	12.38	16.08	17.44	3240.1	3170.1	4.86	3.69	2.38
3340.1	3270.1	10.42	9.74	9.13	3340.1	3270.1	11.86	13.99	16.76	3340.1	3270.1	5.23	3.98	2.64
3420.1	3350.1	11.01	10.36	9.77	3420.1	3350.1	11.54	13.88	16.57	3420.1	3350.1	5.15	3.90	2.58
3520.1	3450.1	12.40	11.83	11.30	3520.1	3450.1	11.95	14.71	18.09	3520.1	3450.1	4.85	3.53	2.04

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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)=1320.1MHz (dB)
		@LO (dBm)
		+17
940.0	380.1	9.92
887.2	432.9	8.08
834.3	485.8	7.52
781.5	538.6	7.57
739.2	580.9	7.89
686.4	633.7	9.12
644.1	676.0	9.89
591.3	728.9	9.05
549.0	771.1	8.13
496.1	824.0	7.28
453.9	866.2	6.86
401.0	919.1	6.74
358.8	961.4	6.68
305.9	1014.2	6.89
263.6	1056.5	6.84
210.8	1109.3	7.02
168.5	1151.6	6.96
115.7	1204.4	7.00
73.4	1246.7	6.88
20.6	1299.5	7.06
68.9	1389.0	7.07
216.0	1536.1	7.08
333.8	1653.9	7.27
480.9	1801.0	7.57
598.6	1918.7	7.79
745.8	2065.9	8.36
863.5	2183.6	8.50
1010.7	2330.8	8.05
1128.4	2448.5	8.69
1275.6	2595.7	9.46
1393.3	2713.4	10.06
1540.5	2860.6	10.21
1658.2	2978.3	10.09
1805.3	3125.4	10.33
1923.1	3243.2	10.49
2070.2	3390.3	11.14
2188.0	3508.1	11.24
2335.1	3655.2	11.09
2452.8	3772.9	11.00
2600.0	3920.1	11.45

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=710.1MHz (dB)
		@LO (dBm)
		+17
10.0	720.1	7.79
70.0	780.1	7.43
130.0	840.1	7.44
190.0	900.1	7.71
250.0	960.1	7.71
310.0	1020.1	7.59
370.0	1080.1	7.64
430.0	1140.1	7.61
490.0	1200.1	7.78
550.0	1260.1	7.86
610.0	1320.1	7.99
670.0	1380.1	8.12
730.0	1440.1	8.47
790.0	1500.1	8.70
850.0	1560.1	8.82
910.0	1620.1	8.98
970.0	1680.1	8.80
1030.0	1740.1	9.00
1090.0	1800.1	9.06
1150.0	1860.1	8.95
1210.0	1920.1	8.66
1270.0	1980.1	8.20
1330.0	2040.1	8.12
1390.0	2100.1	8.33
1450.0	2160.1	8.88
1510.0	2220.1	9.17
1570.0	2280.1	9.41
1630.0	2340.1	9.59
1690.0	2400.1	9.43
1750.0	2460.1	9.50
1810.0	2520.1	9.71
1870.0	2580.1	9.89
1950.0	2660.1	10.21
2010.0	2720.1	10.16
2090.0	2800.1	9.98
2150.0	2860.1	9.95
2230.0	2940.1	10.03
2290.0	3000.1	10.17
2370.0	3080.1	10.40
2430.0	3140.1	10.52

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1930.1MHz (dB)
		@LO (dBm)
		+17
930.0	1000.1	10.37
910.0	1020.1	10.32
890.0	1040.1	10.00
870.0	1060.1	9.48
850.0	1080.1	9.02
830.0	1100.1	8.77
810.0	1120.1	8.49
790.0	1140.1	8.30
770.0	1160.1	8.16
750.0	1180.1	8.04
730.0	1200.1	7.96
710.0	1220.1	7.81
690.0	1240.1	7.84
670.0	1260.1	7.76
650.0	1280.1	7.79
630.0	1300.1	7.74
610.0	1320.1	7.71
590.0	1340.1	7.69
570.0	1360.1	7.63
550.0	1380.1	7.71
530.0	1400.1	7.74
510.0	1420.1	7.85
490.0	1440.1	7.95
470.0	1460.1	7.98
450.0	1480.1	8.06
430.0	1500.1	8.05
390.0	1540.1	8.16
370.0	1560.1	8.28
330.0	1600.1	8.24
310.0	1620.1	8.28
270.0	1660.1	8.20
250.0	1680.1	8.18
210.0	1720.1	8.27
190.0	1740.1	8.28
150.0	1780.1	8.27
130.0	1800.1	8.28
90.0	1840.1	8.28
70.0	1860.1	8.30
30.0	1900.1	8.41
10.0	1920.1	8.83

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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)		
	+14	+17	+20	+14	+17	+20
50.1	64.90	65.07	65.16	59.02	59.02	58.94
130.1	59.01	58.85	58.76	44.42	44.41	44.35
210.1	52.18	52.52	52.86	39.48	39.59	39.65
290.1	42.69	42.75	42.72	35.81	35.80	35.75
370.1	34.92	34.81	34.67	33.68	33.52	33.46
450.1	42.36	42.34	42.24	45.16	45.32	45.40
530.1	42.19	42.10	41.95	42.18	42.42	42.51
610.1	42.12	42.05	41.95	41.70	41.93	41.96
690.1	41.20	41.12	41.17	41.65	41.91	41.89
770.1	38.81	38.63	38.64	39.56	39.81	39.85
850.1	39.50	39.25	39.07	39.10	39.31	39.38
930.1	41.41	41.16	40.95	38.96	39.06	39.07
1010.1	43.05	42.79	42.53	39.69	39.84	39.83
1110.1	44.74	44.50	44.16	40.94	41.09	41.10
1190.1	44.12	43.79	43.38	42.10	42.36	42.45
1290.1	42.05	41.69	41.27	42.54	42.94	43.06
1370.1	40.62	40.10	39.63	41.88	42.39	42.59
1470.1	41.65	41.25	40.92	39.56	39.93	39.91
1550.1	42.04	41.76	41.57	37.82	38.21	38.24
1650.1	49.03	50.16	50.29	34.63	35.00	35.16
1730.1	41.26	41.84	42.01	33.87	34.16	34.22
1830.1	39.60	40.00	40.37	33.37	33.52	33.52
1910.1	39.85	40.30	40.68	35.64	35.91	35.87
2010.1	36.53	36.79	36.93	35.81	36.15	36.19
2090.1	34.93	34.95	35.09	36.47	36.85	37.03
2190.1	33.53	33.45	33.44	37.92	38.51	38.75
2270.1	33.24	33.06	32.93	39.30	40.18	40.50
2370.1	33.55	33.45	33.21	41.10	42.39	42.65
2450.1	34.70	34.48	34.23	44.17	45.93	46.26
2550.1	36.86	36.54	36.34	46.71	47.07	47.07
2630.1	37.64	37.45	37.71	42.49	41.39	41.62
2730.1	34.32	34.63	34.77	36.46	35.57	35.59
2810.1	31.79	32.09	32.13	33.39	32.76	32.73
2910.1	30.64	30.84	30.54	32.58	32.15	31.73
2990.1	31.22	31.36	31.27	34.63	34.28	34.16
3090.1	32.34	32.54	32.31	35.86	35.95	36.12
3170.1	34.01	34.20	33.87	36.60	37.12	37.24
3270.1	37.01	37.13	37.21	37.61	38.41	38.75
3350.1	36.63	36.53	36.56	37.03	37.81	38.00
3450.1	33.86	33.70	33.72	35.11	35.45	35.62

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
120.1	50.1	70.57	64.36	59.35
200.1	130.1	47.13	47.15	46.69
280.1	210.1	40.36	40.66	40.35
360.1	290.1	35.30	35.49	36.25
440.1	370.1	33.50	31.61	32.31
520.1	450.1	37.94	38.05	38.27
600.1	530.1	34.90	35.12	35.46
680.1	610.1	30.98	31.18	31.50
760.1	690.1	25.10	25.08	25.32
840.1	770.1	24.92	24.91	24.97
920.1	850.1	32.23	32.10	32.26
1000.1	930.1	33.21	33.01	33.08
1080.1	1010.1	32.87	32.60	32.66
1180.1	1110.1	32.35	32.31	32.95
1260.1	1190.1	31.63	31.47	31.76
1360.1	1290.1	31.10	30.93	31.22
1440.1	1370.1	31.31	31.03	31.20
1540.1	1470.1	32.75	32.68	32.67
1620.1	1550.1	32.23	32.19	32.07
1720.1	1650.1	32.77	32.50	32.07
1800.1	1730.1	36.36	36.21	35.65
1900.1	1830.1	37.53	37.36	36.95
1980.1	1910.1	40.79	40.79	40.54
2080.1	2010.1	41.56	40.99	41.00
2160.1	2090.1	44.03	43.65	43.98
2260.1	2190.1	40.38	39.87	40.36
2340.1	2270.1	36.71	36.43	36.81
2440.1	2370.1	31.58	31.28	31.42
2520.1	2450.1	28.21	27.80	27.76
2620.1	2550.1	25.87	25.17	24.93
2700.1	2630.1	25.82	24.92	24.79
2800.1	2730.1	27.98	26.60	26.58
2880.1	2810.1	35.22	33.15	33.84
2980.1	2910.1	37.38	39.20	36.13
3060.1	2990.1	35.36	36.67	34.69
3160.1	3090.1	36.77	35.92	33.89
3240.1	3170.1	31.43	30.52	29.03
3340.1	3270.1	26.80	26.00	24.79
3420.1	3350.1	24.54	23.89	22.85
3520.1	3450.1	23.19	22.58	21.64

Frequency Mixer

SYXM-ED13232A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1860MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
200.1	130.1	5.17	5.12	5.12	130.1	3.43	3.43	3.43	10.1	2.16	2.30	2.34
280.1	210.1	2.57	2.55	2.54	210.1	3.32	3.32	3.31	50.1	2.15	2.29	2.34
360.1	290.1	1.65	1.65	1.65	290.1	3.71	3.71	3.71	90.1	2.16	2.29	2.34
440.1	370.1	1.23	1.24	1.21	370.1	3.47	3.46	3.47	130.1	2.22	2.36	2.41
520.1	450.1	2.36	2.45	2.49	450.1	4.61	4.60	4.59	170.1	2.25	2.39	2.45
600.1	530.1	2.32	2.40	2.44	530.1	5.23	5.23	5.22	210.1	2.32	2.45	2.50
680.1	610.1	2.33	2.42	2.45	610.1	5.61	5.59	5.58	250.1	2.35	2.48	2.53
760.1	690.1	2.35	2.43	2.46	690.1	5.74	5.72	5.70	290.1	2.39	2.52	2.57
840.1	770.1	2.27	2.35	2.37	770.1	5.93	5.93	5.91	330.1	2.39	2.51	2.55
920.1	850.1	2.10	2.16	2.18	850.1	6.01	6.01	6.01	370.1	2.39	2.50	2.54
1000.1	930.1	1.94	1.98	2.00	930.1	5.99	5.97	5.97	410.1	2.46	2.57	2.61
1080.1	1010.1	1.76	1.80	1.82	1010.1	5.77	5.75	5.72	450.1	2.51	2.61	2.65
1180.1	1110.1	1.56	1.58	1.59	1110.1	5.47	5.46	5.42	490.1	2.59	2.69	2.73
1260.1	1190.1	1.45	1.45	1.45	1190.1	5.27	5.23	5.17	550.1	2.60	2.69	2.72
1360.1	1290.1	1.43	1.41	1.42	1290.1	4.86	4.83	4.78	590.1	2.63	2.72	2.75
1440.1	1370.1	1.53	1.52	1.53	1370.1	4.50	4.46	4.42	650.1	2.68	2.75	2.78
1540.1	1470.1	1.56	1.58	1.59	1470.1	4.11	4.09	4.06	690.1	2.66	2.72	2.75
1620.1	1550.1	1.70	1.73	1.75	1550.1	3.77	3.76	3.74	750.1	2.76	2.82	2.85
1720.1	1650.1	1.89	1.94	1.96	1650.1	3.35	3.34	3.33	790.1	2.66	2.72	2.75
1800.1	1730.1	2.10	2.16	2.18	1730.1	3.03	3.02	3.02	850.1	2.77	2.84	2.86
1900.1	1830.1	2.42	2.50	2.54	1830.1	2.58	2.57	2.57	890.1	2.66	2.71	2.74
1980.1	1910.1	2.62	2.72	2.77	1910.1	2.28	2.27	2.28	950.1	2.73	2.78	2.81
2080.1	2010.1	2.87	2.97	3.03	2010.1	1.91	1.91	1.91	990.1	2.64	2.69	2.72
2160.1	2090.1	2.92	3.00	3.05	2090.1	1.70	1.70	1.71	1050.1	2.65	2.69	2.71
2260.1	2190.1	3.01	3.08	3.12	2190.1	1.58	1.58	1.58	1090.1	2.60	2.65	2.66
2340.1	2270.1	3.08	3.10	3.14	2270.1	1.58	1.59	1.59	1150.1	2.54	2.57	2.58
2440.1	2370.1	3.17	3.16	3.19	2370.1	1.66	1.67	1.66	1190.1	2.48	2.49	2.49
2520.1	2450.1	3.30	3.26	3.30	2450.1	1.74	1.74	1.74	1250.1	2.42	2.42	2.41
2620.1	2550.1	3.34	3.28	3.33	2550.1	1.80	1.80	1.80	1290.1	2.43	2.40	2.39
2700.1	2630.1	3.33	3.24	3.29	2630.1	1.82	1.82	1.81	1350.1	2.39	2.35	2.33
2800.1	2730.1	3.25	3.15	3.20	2730.1	1.92	1.92	1.91	1390.1	2.52	2.46	2.44
2880.1	2810.1	3.19	3.07	3.12	2810.1	2.07	2.07	2.05	1450.1	2.53	2.47	2.45
2980.1	2910.1	3.01	2.92	2.99	2910.1	2.29	2.29	2.27	1490.1	2.82	2.75	2.73
3060.1	2990.1	2.62	2.55	2.61	2990.1	2.38	2.37	2.35	1550.1	2.77	2.71	2.70
3160.1	3090.1	2.03	1.95	2.00	3090.1	2.39	2.38	2.35	1590.1	3.16	3.11	3.11
3240.1	3170.1	1.58	1.51	1.54	3170.1	2.35	2.35	2.33	1650.1	3.07	3.05	3.05
3340.1	3270.1	1.45	1.43	1.38	3270.1	2.22	2.21	2.19	1690.1	3.43	3.44	3.45
3420.1	3350.1	1.95	2.01	1.93	3350.1	2.10	2.09	2.08	1750.1	3.00	3.03	3.05
3520.1	3450.1	3.16	3.30	3.22	3450.1	1.92	1.91	1.91	1790.1	2.88	2.93	2.96

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	17	34	35	44	42	37	43	44	51
1	-	25	+0	37	13	43	32	46	49	49	57	68
2	58	50	51	58	67	59	65	68	71	73	67	74
3	>90	80	61	75	59	>81	61	>81	74	>81	>81	>81
4	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
5	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1320 MHz; -2.00 dBm.
LO IN: 1250 MHz; +17.00 dBm
IF OUT: 70 MHz; -8.83 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	27	43	45	53	50	51	54	59	57
1	-	25	+0	38	14	44	35	47	46	50	69	69
2	38	39	40	47	53	48	52	59	59	62	62	65
3	82	60	41	55	38	61	40	65	51	69	75	72
4	>90	73	78	66	83	68	85	70	75	78	76	86
5	>90	87	79	77	67	69	63	72	72	75	87	88
6	>90	>91	>91	86	>91	77	83	80	85	86	89	>91
7	>90	>91	>91	>91	87	87	81	80	76	80	84	85
8	>90	>91	>91	>91	>91	>91	>91	>91	>91	88	89	>91
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	89	87
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: 1320 MHz; 8.00 dBm.
LO IN: 1250 MHz; +17.00 dBm
IF OUT: 70 MHz; 1.05 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.