Frequency Mixer SKY-53MHR+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) @LO (dBm)		
		+10	+13	+16
1860.1	1890.1	10.91	10.60	10.40
1960.1	1990.1	9.93	9.65	9.40
2060.1	2090.1	8.98	8.73	8.32
2160.1	2190.1	8.29	8.03	7.52
2260.1	2290.1	7.66	7.32	6.69
2360.1	2390.1	7.27	6.84	6.17
2460.1	2490.1	6.80	6.38	5.81
2560.1	2590.1	6.49	6.12	5.77
2660.1	2690.1	6.22	5.94	5.65
2760.1	2790.1	5.99	5.67	5.45
2860.1	2890.1	5.82	5.55	5.37
2960.1	2990.1	5.69	5.47	5.32
3060.1	3090.1	5.56	5.35	5.22
3160.1	3190.1	5.58	5.33	5.28
3260.1	3290.1	5.65	5.44	5.42
3360.1	3390.1	5.78	5.57	5.57
3460.1	3490.1	6.04	5.90	5.84
3560.1	3590.1	5.75	5.97	6.01
3660.1	3690.1	5.67	5.94	6.09
3760.1	3790.1	5.69	5.92	6.13
3860.1	3890.1	5.68	5.89	6.17
3960.1	3990.1	5.65	5.79	6.10
4060.1	4090.1	5.64	5.67	5.90
4160.1	4190.1	5.76	5.80	6.04
4260.1	4290.1	5.88	5.91	6.11
4360.1	4390.1	6.09	6.10	6.28
4460.1	4490.1	6.36	6.36	6.54
4560.1	4590.1	6.66	6.62	6.78
4660.1	4690.1	7.01	6.92	7.06
4760.1	4790.1	7.32	7.28	7.43
4860.1	4890.1	7.40	7.39	7.57
4960.1	4990.1	7.54	7.45	7.59
5060.1	5090.1	7.61	7.55	7.67
5160.1	5190.1	7.26	7.27	7.40
5260.1	5290.1	7.40	7.12	7.15
5360.1	5390.1	9.35	8.60	8.12
5480.1	5510.1	10.28	9.61	9.06
5580.1	5610.1	10.37	9.89	9.42
5700.1	5730.1	10.55	10.22	9.89
5800.1	5830.1	10.46	10.23	10.04

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+10	+13	+16
1860.1	1890.1	19.95	19.20	14.67
1960.1	1990.1	19.90	18.57	13.81
2060.1	2090.1	20.61	19.69	18.38
2160.1	2190.1	20.34	19.04	16.44
2260.1	2290.1	17.21	17.47	13.19
2360.1	2390.1	14.80	17.00	11.94
2460.1	2490.1	14.62	17.20	12.15
2560.1	2590.1	15.07	17.29	13.65
2660.1	2690.1	13.10	14.32	15.27
2760.1	2790.1	13.87	14.64	15.68
2860.1	2890.1	15.76	16.19	16.90
2960.1	2990.1	16.65	17.28	17.58
3060.1	3090.1	16.84	18.59	19.13
3160.1	3190.1	18.05	18.82	19.30
3260.1	3290.1	17.55	18.11	18.78
3360.1	3390.1	18.40	18.58	18.92
3460.1	3490.1	18.17	20.49	20.11
3560.1	3590.1	15.02	22.12	21.94
3660.1	3690.1	12.95	19.89	21.28
3760.1	3790.1	13.07	20.37	21.69
3860.1	3890.1	13.38	19.87	21.33
3960.1	3990.1	13.46	18.75	20.70
4060.1	4090.1	13.49	18.05	20.52
4160.1	4190.1	14.51	17.92	22.04
4260.1	4290.1	16.51	19.04	23.16
4360.1	4390.1	18.58	20.35	23.11
4460.1	4490.1	18.90	21.16	23.36
4560.1	4590.1	18.99	21.24	23.26
4660.1	4690.1	21.74	23.16	24.04
4760.1	4790.1	20.68	24.04	24.59
4860.1	4890.1	19.59	22.86	24.62
4960.1	4990.1	17.07	21.77	24.40
5060.1	5090.1	15.96	20.69	24.66
5160.1	5190.1	13.59	17.60	23.11
5260.1	5290.1	12.27	15.15	19.98
5360.1	5390.1	15.80	17.20	20.04
5480.1	5510.1	20.35	22.23	22.14
5580.1	5610.1	22.33	25.44	22.78
5700.1	5730.1	23.42	26.87	23.15
5800.1	5830.1	22.34	24.94	21.79

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB) @LO (dBm)		
		+10	+13	+16
1860.1	1890.1	0.55	0.56	0.70
1960.1	1990.1	0.65	0.53	0.67
2060.1	2090.1	0.75	0.63	1.07
2160.1	2190.1	0.84	0.80	1.50
2260.1	2290.1	1.04	1.19	2.10
2360.1	2390.1	1.22	1.53	2.59
2460.1	2490.1	1.52	1.88	2.87
2560.1	2590.1	1.69	2.04	2.76
2660.1	2690.1	1.70	1.82	2.39
2760.1	2790.1	1.90	1.96	2.36
2860.1	2890.1	1.97	1.87	2.06
2960.1	2990.1	2.09	1.78	1.74
3060.1	3090.1	2.06	1.67	1.59
3160.1	3190.1	1.93	1.57	1.44
3260.1	3290.1	1.85	1.43	1.30
3360.1	3390.1	1.77	1.34	1.31
3460.1	3490.1	1.56	0.97	0.99
3560.1	3590.1	1.74	0.82	0.70
3660.1	3690.1	1.83	0.91	0.70
3760.1	3790.1	1.83	0.95	0.73
3860.1	3890.1	1.82	1.08	0.79
3960.1	3990.1	1.95	1.26	0.93
4060.1	4090.1	1.92	1.28	0.91
4160.1	4190.1	1.94	1.28	0.88
4260.1	4290.1	1.83	1.13	0.77
4360.1	4390.1	1.71	0.99	0.74
4460.1	4490.1	1.55	0.89	0.60
4560.1	4590.1	1.36	0.79	0.49
4660.1	4690.1	1.07	0.54	0.40
4760.1	4790.1	0.95	0.43	0.33
4860.1	4890.1	0.97	0.45	0.29
4960.1	4990.1	0.96	0.50	0.28
5060.1	5090.1	1.12	0.59	0.28
5160.1	5190.1	1.84	1.01	0.49
5260.1	5290.1	2.94	2.02	1.25
5360.1	5390.1	1.31	1.24	0.91
5480.1	5510.1	0.38	0.47	0.53
5580.1	5610.1	0.27	0.27	0.43
5700.1	5730.1	0.21	0.18	0.29
5800.1	5830.1	0.26	0.17	0.24

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4050MHz (dB) @LO (dBm) +13
2650.0	1400.0	9.06
2518.9	1531.1	6.79
2387.9	1662.1	6.28
2256.8	1793.2	5.98
2125.7	1924.3	5.88
1994.7	2055.3	5.95
1863.6	2186.4	6.05
1732.6	2317.4	6.23
1601.5	2448.5	6.47
1470.4	2579.6	6.50
1339.4	2710.6	6.72
1208.3	2841.7	6.94
1077.2	2972.8	7.37
946.2	3103.8	8.11
815.1	3234.9	7.76
684.0	3366.0	7.42
553.0	3497.0	7.42
421.9	3628.1	6.69
290.9	3759.1	6.33
159.8	3890.2	6.02
10.0	4040.0	6.10
137.7	4187.7	5.69
307.9	4357.9	5.67
456.8	4506.8	5.76
627.0	4677.0	6.03
776.0	4826.0	6.38
946.2	4996.2	5.72
1095.1	5145.1	6.03
1265.3	5315.3	6.20
1414.3	5464.3	6.41
1584.5	5634.5	6.77
1733.4	5783.4	6.66
1903.6	5953.6	6.78
2052.6	6102.6	6.42
2222.8	6272.8	6.32
2371.7	6421.7	6.01
2541.9	6591.9	6.51
2690.9	6740.9	7.65
2861.1	6911.1	8.77
3010.0	7060.0	10.35

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2789.89MHz (dB) @LO (dBm) +13
10.1	2800.0	5.97
90.1	2880.0	5.28
170.1	2960.0	5.12
250.1	3040.0	4.97
330.1	3120.0	4.85
410.1	3200.0	5.00
490.1	3280.0	5.16
570.1	3360.0	5.34
650.1	3440.0	5.52
730.1	3520.0	5.77
810.1	3600.0	5.85
890.1	3680.0	5.96
970.1	3760.0	6.04
1050.1	3840.0	5.97
1130.1	3920.0	5.95
1190.1	3980.0	5.98
1270.1	4060.0	5.94
1330.1	4120.0	6.19
1410.1	4200.0	6.17
1470.1	4260.0	6.43
1550.1	4340.0	6.58
1610.1	4400.0	6.15
1690.1	4480.0	5.77
1750.1	4540.0	6.05
1830.1	4620.0	6.10
1890.1	4680.0	5.92
1970.1	4760.0	6.10
2030.1	4820.0	6.43
2110.1	4900.0	6.63
2170.1	4960.0	6.49
2250.1	5040.0	6.72
2310.1	5100.0	7.13
2390.1	5180.0	7.16
2450.1	5240.0	7.15
2530.1	5320.0	7.60
2590.1	5380.0	8.13
2670.1	5460.0	8.53
2730.1	5520.0	9.08
2810.1	5600.0	9.91
2870.1	5660.0	10.23

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=5310.1MHz (dB) @LO (dBm) +13
1110.1	4200.0	10.65
1090.1	4220.0	10.42
1070.1	4240.0	10.42
1050.1	4260.0	10.11
1030.1	4280.0	10.10
1010.1	4300.0	9.81
990.1	4320.0	9.90
970.1	4340.0	9.68
930.1	4380.0	9.36
910.1	4400.0	9.40
870.1	4440.0	9.28
850.1	4460.0	9.08
810.1	4500.0	9.05
790.1	4520.0	9.01
750.1	4560.0	8.83
730.1	4580.0	8.76
690.1	4620.0	8.75
670.1	4640.0	8.66
630.1	4680.0	8.44
610.1	4700.0	8.41
570.1	4740.0	8.23
550.1	4760.0	8.07
510.1	4800.0	8.00
490.1	4820.0	8.03
450.1	4860.0	7.85
430.1	4880.0	7.71
390.1	4920.0	7.64
370.1	4940.0	7.65
330.1	4980.0	7.51
310.1	5000.0	7.45
270.1	5040.0	7.30
250.1	5060.0	7.25
210.1	5100.0	7.24
190.1	5120.0	7.20
150.1	5160.0	7.33
130.1	5180.0	7.46
90.1	5220.0	7.76
70.1	5240.0	7.90
30.1	5280.0	7.95
10.1	5300.0	8.25

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+10	+13	+16	+10	+13	+16
1890.1	30.11	30.25	29.85	16.23	15.72	15.12
1990.1	30.25	29.86	29.18	17.01	16.25	15.10
2090.1	31.03	29.68	28.48	18.23	16.54	14.90
2190.1	31.20	29.51	27.86	18.71	16.26	14.53
2290.1	30.17	28.36	26.95	18.21	15.63	13.93
2390.1	28.25	27.05	26.21	16.99	15.00	13.52
2490.1	26.55	26.06	25.24	15.69	14.34	12.77
2590.1	25.02	25.34	24.71	14.35	13.54	12.13
2690.1	24.30	24.69	24.34	13.36	12.90	11.66
2790.1	24.51	24.67	24.49	13.01	12.30	11.56
2890.1	24.53	24.97	24.87	12.75	12.34	11.58
2990.1	24.77	25.58	25.29	12.75	12.57	11.70
3090.1	25.26	26.06	25.29	12.76	12.64	11.88
3190.1	24.99	25.48	25.44	12.80	12.85	12.25
3290.1	25.20	25.58	25.80	12.82	12.99	12.62
3390.1	25.24	26.01	26.14	13.00	13.28	12.85
3490.1	25.82	27.07	27.29	13.33	13.72	13.52
3590.1	27.30	29.22	29.35	13.16	13.88	13.86
3690.1	27.68	29.65	30.20	13.35	14.14	14.31
3790.1	28.13	30.88	31.36	13.59	14.40	14.78
3890.1	29.85	32.63	31.91	13.68	14.71	15.14
3990.1	34.55	37.39	32.71	13.84	14.92	15.52
4090.1	40.47	38.71	31.72	14.08	15.09	15.83
4190.1	52.04	36.08	30.20	14.46	15.45	16.15
4290.1	41.95	38.60	32.09	14.93	15.87	16.73
4390.1	43.59	36.47	30.41	15.29	16.39	17.31
4490.1	43.53	33.24	28.09	15.75	16.86	17.85
4590.1	43.97	32.36	27.62	16.31	17.46	18.57
4690.1	41.81	31.15	27.01	17.02	18.15	19.41
4790.1	39.36	30.14	26.36	17.57	18.81	20.20
4890.1	37.27	28.85	25.59	18.34	19.59	21.14
4990.1	35.09	28.34	24.84	19.20	20.60	22.17
5090.1	31.32	26.52	23.78	20.10	21.58	23.18
5190.1	28.11	24.84	22.80	21.00	22.55	24.15
5290.1	26.88	23.23	21.46	21.98	23.44	24.72
5390.1	27.04	23.26	20.85	23.11	24.50	25.09
5510.1	25.97	22.23	20.19	24.82	25.57	25.39
5610.1	24.31	21.33	19.20	26.19	26.19	24.95
5730.1	22.33	20.21	18.43	27.44	26.37	24.35
5830.1	21.50	19.27	18.03	28.27	25.92	24.04

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+10	+13	+16
1860.1	1890.1	14.17	15.31	16.46
1960.1	1990.1	14.62	15.92	17.36
2060.1	2090.1	15.32	16.70	18.32
2160.1	2190.1	16.33	17.34	19.07
2260.1	2290.1	17.28	17.81	18.82
2360.1	2390.1	17.82	17.64	17.80
2460.1	2490.1	17.27	16.94	17.06
2560.1	2590.1	15.77	15.58	15.65
2660.1	2690.1	15.21	14.86	14.69
2760.1	2790.1	14.29	14.22	14.24
2860.1	2890.1	13.44	13.49	13.51
2960.1	2990.1	12.92	12.83	12.83
3060.1	3090.1	12.65	12.58	12.49
3160.1	3190.1	12.49	12.18	11.92
3260.1	3290.1	12.55	12.10	11.90
3360.1	3390.1	12.57	12.07	11.83
3460.1	3490.1	12.28	11.75	11.67
3560.1	3590.1	12.97	12.04	11.91
3660.1	3690.1	13.44	12.37	12.14
3760.1	3790.1	13.68	12.45	12.19
3860.1	3890.1	13.90	12.77	12.45
3960.1	3990.1	14.27	13.28	12.86
4060.1	4090.1	14.69	13.74	13.32
4160.1	4190.1	15.24	14.48	14.06
4260.1	4290.1	15.91	15.15	14.76
4360.1	4390.1	16.64	15.99	15.56
4460.1	4490.1	17.48	16.76	16.34
4560.1	4590.1	18.31	17.60	17.15
4660.1	4690.1	18.99	18.31	17.90
4760.1	4790.1	19.86	18.95	18.56
4860.1	4890.1	20.61	19.69	19.24
4960.1	4990.1	21.60	20.63	20.01
5060.1	5090.1	22.49	21.33	20.71
5160.1	5190.1	23.49	22.61	21.86
5260.1	5290.1	25.44	24.62	23.94
5360.1	5390.1	26.86	25.86	25.23
5480.1	5510.1	27.44	26.25	25.60
5580.1	5610.1	27.79	26.64	25.96
5700.1	5730.1	28.15	27.09	26.33
5800.1	5830.1	28.60	27.35	26.56

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+10	+13	+16
1860.1	1890.1	10.62	9.79	8.86
1960.1	1990.1	8.51	7.76	6.73
2060.1	2090.1	7.00	6.24	5.27
2160.1	2190.1	5.68	5.06	4.32
2260.1	2290.1	4.74	4.15	3.59
2360.1	2390.1	3.96	3.48	3.09
2460.1	2490.1	3.31	3.00	2.77
2560.1	2590.1	2.86	2.71	2.65
2660.1	2690.1	2.43	2.40	2.42
2760.1	2790.1	2.09	2.16	2.25
2860.1	2890.1	1.88	2.01	2.14
2960.1	2990.1	1.77	1.96	2.13
3060.1	3090.1	1.77	2.04	2.28
3160.1	3190.1	1.88	2.19	2.39
3260.1	3290.1	1.99	2.30	2.44
3360.1	3390.1	2.13	2.44	2.59
3460.1	3490.1	2.36	2.68	2.78
3560.1	3590.1	2.29	2.77	2.91
3660.1	3690.1	2.32	2.78	2.96
3760.1	3790.1	2.41	2.85	3.06
3860.1	3890.1	2.52	2.88	3.13
3960.1	3990.1	2.54	2.82	3.07
4060.1	4090.1	2.58	2.77	2.96
4160.1	4190.1	2.67	2.82	2.99
4260.1	4290.1	2.72	2.85	2.99
4360.1	4390.1	2.91	3.01	3.14
4460.1	4490.1	3.19	3.26	3.37
4560.1	4590.1	3.48	3.49	3.57
4660.1	4690.1	3.82	3.82	3.89
4760.1	4790.1	4.17	4.16	4.23
4860.1	4890.1	4.40	4.36	4.45
4960.1	4990.1	4.73	4.56	4.60
5060.1	5090.1	4.83	4.61	4.56
5160.1	5190.1	4.36	4.06	3.92
5260.1	5290.1	4.33	3.86	3.62
5360.1	5390.1	6.01	5.36	4.84
5480.1	5510.1	7.34	6.61	6.01
5580.1	5610.1	7.66	7.00	6.44
5700.1	5730.1	8.05	7.47	6.86
5800.1	5830.1	8.05	7.44	6.91

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+10	+13	+16
1890.1	2.28	2.13	2.61
1990.1	1.99	1.98	2.52
2090.1	1.73	1.84	2.40
2190.1	1.52	1.74	2.34
2290.1	1.36	1.66	2.27
2390.1	1.22	1.59	2.22
2490.1	1.12	1.56	2.19
2590.1	1.02	1.53	2.16
2690.1	1.06	1.51	2.15
2790.1	1.14	1.50	2.09
2890.1	1.18	1.54	2.11
2990.1	1.22	1.51	2.05
3090.1	1.26	1.46	1.99
3190.1	1.34	1.45	2.00
3290.1	1.50	1.53	2.04
3390.1	1.64	1.61	2.08
3490.1	1.75	1.70	2.18
3590.1	1.90	1.82	2.20
3690.1	1.95	1.85	2.22
3790.1	2.03	1.89	2.24
3890.1	2.09	1.92	2.21
3990.1	2.14	1.94	2.20
4090.1	2.18	1.96	2.21
4190.1	2.22	1.95	2.17
4290.1	2.32	1.95	2.13
4390.1	2.43	1.99	2.11
4490.1	2.51	2.02	2.09
4590.1	2.53	1.98	2.04
4690.1	2.58	1.96	1.97
4790.1	2.63	2.01	1.96
4890.1	2.62	1.97	1.92
4990.1	2.59	1.92	1.86
5090.1	2.49	1.85	1.80
5190.1	2.40	1.76	1.73
5290.1	2.30	1.69	1.67
5390.1	2.21	1.65	1.67
5510.1	2.18	1.61	1.62
5610.1	2.04	1.56	1.63
5730.1	1.92	1.51	1.64
5830.1	1.80	1.46	1.65

IF (OUT) (MHz)	IF VSWR @LO=5300MHz (:1) @LO (dBm)		
	+10	+13	+16
10.0	1.07	1.12	1.26
90.6	1.10	1.12	1.22
171.2	1.17	1.08	1.18
251.7	1.21	1.03	1.15
332.3	1.26	1.05	1.16
412.9	1.32	1.12	1.19
493.5	1.38	1.18	1.22
553.9	1.39	1.19	1.24
634.5	1.45	1.24	1.27
694.9	1.52	1.33	1.34
775.5	1.59	1.39	1.39
835.9	1.68	1.42	1.39
916.5	1.75	1.48	1.43
976.9	1.77	1.54	1.52
1057.5	1.85	1.61	1.57
1117.9	1.99	1.69	1.62
1198.5	2.03	1.71	1.63
1258.9	2.06	1.73	1.65
1339.5	2.11	1.75	1.65
1399.9	2.18	1.75	1.59
1480.5	2.20	1.76	1.60
1540.9	2.11	1.66	1.51
1621.5	2.10	1.65	1.48
1681.9	2.16	1.69	1.50
1762.5	2.11	1.64	1.44
1822.9	1.98	1.54	1.36
1903.5	1.97	1.53	1.35
1964.0	2.02	1.55	1.35
2044.5	1.91	1.45	1.26
2105.0	1.78	1.37	1.22
2185.5	1.76	1.36	1.23
2246.0	1.80	1.38	1.22
2326.5	1.68	1.32	1.22
2387.0	1.71	1.42	1.37
2467.6	1.87	1.60	1.53
2528.0	1.99	1.69	1.59
2608.6	2.23	1.94	1.82
2669.0	2.66	2.36	2.20
2749.6	3.10	2.75	2.54
2810.0	3.33	2.95	2.73

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+10	11	15	17	49	---	---	---	---	---
1	-	8	+0	30	36	50	36	53	---	---	---	---
2	76	58	51	50	64	58	55	59	59	---	---	---
3	>90	76	>78	>78	54	75	77	>78	67	>78	---	---
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	---
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	---	---	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	---	---	---	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	---	---	---	---	>78	>78	>78	>78	>78	>78	>78	>78
9	---	---	---	---	---	>78	>78	>78	>78	>78	>78	>78
10	---	---	---	---	---	---	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 4050 MHz; -6.00 dBm.
LO IN: 4080 MHz; +13.00 dBm
IF OUT: 30 MHz; -11.87 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+0	21	24	28	45	---	---	---	---	---
1	-	8	+0	31	37	45	41	56	---	---	---	---
2	57	48	41	40	54	50	49	52	55	---	---	---
3	84	54	64	78	35	56	63	60	53	73	---	---
4	>90	78	77	78	81	59	72	68	65	75	66	---
5	>90	85	78	79	88	76	53	80	76	77	68	85
6	---	---	>88	>88	>88	>88	>88	74	85	80	76	87
7	---	---	---	87	>88	87	>88	83	67	>88	>88	>88
8	---	---	---	---	>88	>88	>88	>88	>88	87	>88	>88
9	---	---	---	---	---	>88	>88	>88	>88	>88	79	>88
10	---	---	---	---	---	---	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 4050 MHz; 4.00 dBm.
LO IN: 4080 MHz; +13.00 dBm
IF OUT: 30 MHz; -2.15 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.