

# Frequency Mixer

# SIM-153LH+

## 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=+3dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
2600.1	2630.1	16.51	12.42	8.90	2600.1	2630.1	-4.43	-1.34	3.30	2600.1	2630.1	0.60	2.00	3.04
2917.6	2947.6	10.87	7.69	6.41	2917.6	2947.6	0.19	8.94	8.33	2917.6	2947.6	1.99	3.29	3.24
3235.1	3265.1	7.81	6.43	5.91	3235.1	3265.1	7.63	10.94	11.40	3235.1	3265.1	3.04	3.07	2.66
3552.6	3582.6	6.61	6.13	5.86	3552.6	3582.6	8.80	13.21	12.38	3552.6	3582.6	2.81	2.36	2.09
3870.1	3900.1	6.45	6.26	6.16	3870.1	3900.1	10.86	13.64	14.88	3870.1	3900.1	1.93	1.58	1.35
4187.6	4217.6	6.83	6.68	6.67	4187.6	4217.6	10.34	11.74	14.05	4187.6	4217.6	1.30	1.02	0.85
4505.1	4535.1	6.72	6.66	6.70	4505.1	4535.1	14.08	17.19	18.68	4505.1	4535.1	0.69	0.48	0.38
4822.6	4852.6	6.57	6.42	6.36	4822.6	4852.6	18.57	19.79	19.74	4822.6	4852.6	0.94	0.72	0.56
5140.1	5170.1	7.39	7.12	6.95	5140.1	5170.1	17.53	16.02	16.00	5140.1	5170.1	0.94	0.80	0.69
5457.6	5487.6	7.61	7.37	7.23	5457.6	5487.6	16.80	16.66	15.30	5457.6	5487.6	0.94	0.79	0.71
5775.1	5805.1	7.56	7.37	7.25	5775.1	5805.1	14.36	15.57	15.40	5775.1	5805.1	0.94	0.83	0.76
6092.6	6122.6	6.97	6.76	6.66	6092.6	6122.6	11.35	13.04	13.67	6092.6	6122.6	1.17	1.07	1.01
6410.1	6440.1	6.47	6.16	6.05	6410.1	6440.1	8.69	9.84	11.10	6410.1	6440.1	1.45	1.33	1.26
6727.6	6757.6	6.17	5.80	5.64	6727.6	6757.6	7.41	8.14	9.38	6727.6	6757.6	1.91	1.66	1.51
7045.1	7075.1	6.11	5.80	5.62	7045.1	7075.1	6.93	7.69	8.70	7045.1	7075.1	1.81	1.58	1.42
7362.6	7392.6	6.11	5.96	5.98	7362.6	7392.6	8.47	9.44	10.39	7362.6	7392.6	1.64	1.42	1.09
7680.1	7710.1	6.47	6.28	6.28	7680.1	7710.1	10.92	10.92	11.07	7680.1	7710.1	1.45	1.17	1.02
7997.6	8027.6	6.30	6.18	6.25	7997.6	8027.6	12.47	11.98	11.26	7997.6	8027.6	1.61	1.32	1.21
8315.1	8345.1	6.37	6.30	6.42	8315.1	8345.1	12.53	12.15	13.15	8315.1	8345.1	1.24	1.11	1.11
8632.6	8662.6	6.64	6.58	6.73	8632.6	8662.6	15.31	14.65	13.94	8632.6	8662.6	1.16	1.13	1.23
8950.1	8980.1	7.50	7.47	7.62	8950.1	8980.1	15.88	16.01	13.22	8950.1	8980.1	0.92	1.08	1.44
9299.3	9329.3	8.15	8.19	8.52	9299.3	9329.3	15.79	15.70	10.12	9299.3	9329.3	0.79	0.92	1.22
9616.8	9646.8	9.24	9.22	9.41	9616.8	9646.8	17.15	16.17	12.14	9616.8	9646.8	0.56	0.66	0.82
9966.1	9996.1	9.06	8.97	9.02	9966.1	9996.1	17.29	17.32	15.51	9966.1	9996.1	0.48	0.54	0.66
10283.6	10313.6	9.26	9.14	9.16	10283.6	10313.6	18.29	18.42	17.26	10283.6	10313.6	0.36	0.45	0.60
10632.9	10662.9	9.24	9.10	9.12	10632.9	10662.9	17.20	18.33	17.14	10632.9	10662.9	0.32	0.43	0.64
10950.3	10980.3	9.63	9.43	9.41	10950.3	10980.3	16.54	18.14	17.23	10950.3	10980.3	0.24	0.35	0.53
11299.6	11329.6	10.28	10.00	9.97	11299.6	11329.6	15.33	18.14	18.28	11299.6	11329.6	0.13	0.25	0.41
11617.1	11647.1	10.60	10.17	10.12	11617.1	11647.1	14.33	17.45	17.71	11617.1	11647.1	0.07	0.21	0.41
11966.4	11996.4	10.72	10.29	10.26	11966.4	11996.4	14.70	16.76	15.66	11966.4	11996.4	0.06	0.24	0.59
12283.8	12313.8	10.56	9.98	10.01	12283.8	12313.8	14.45	15.35	13.84	12283.8	12313.8	0.09	0.31	0.71
12633.1	12663.1	11.62	10.73	10.69	12633.1	12663.1	18.10	16.44	13.95	12633.1	12663.1	0.05	0.24	0.68
12950.6	12980.6	11.13	10.61	10.66	12950.6	12980.6	17.94	16.10	11.49	12950.6	12980.6	0.20	0.42	1.00
13299.9	13329.9	10.45	10.20	10.39	13299.9	13329.9	16.21	14.63	9.42	13299.9	13329.9	0.48	0.76	1.32
13617.3	13647.3	9.39	9.30	9.62	13617.3	13647.3	13.68	11.67	7.59	13617.3	13647.3	0.88	1.20	1.57
13966.6	13996.6	8.06	8.11	8.62	13966.6	13996.6	10.14	8.64	6.66	13966.6	13996.6	1.38	1.64	1.70
14284.1	14314.1	7.59	7.75	8.55	14284.1	14314.1	9.98	8.47	6.77	14284.1	14314.1	1.41	1.65	1.51
14633.4	14663.4	8.26	8.43	9.12	14633.4	14663.4	11.58	10.46	8.76	14633.4	14663.4	0.97	1.24	1.25
14950.8	14980.8	8.80	8.96	9.86	14950.8	14980.8	12.00	11.42	10.51	14950.8	14980.8	0.83	1.02	0.96
15300.1	15330.1	10.64	10.64	11.30	15300.1	15330.1	13.73	13.62	14.04	15300.1	15330.1	0.40	0.53	0.52

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=9100MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3190MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=15010.09MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
4099.9	5000.1	10.18	10.1	3200.1	6.89	2910.0	12100.1	10.39
3894.4	5205.6	9.48	130.1	3320.1	6.14	2830.0	12180.1	10.43
3688.9	5411.1	8.62	250.1	3440.1	6.00	2750.0	12260.1	10.43
3483.3	5616.7	8.12	370.1	3560.1	5.83	2670.0	12340.1	10.26
3277.8	5822.2	8.41	490.1	3680.1	5.75	2590.0	12420.1	10.32
3072.3	6027.7	8.77	610.1	3800.1	5.75	2510.0	12500.1	10.37
2866.8	6233.2	8.84	730.1	3920.1	5.66	2430.0	12580.1	10.31
2661.2	6438.8	9.23	850.1	4040.1	5.77	2350.0	12660.1	10.22
2455.7	6644.3	9.70	970.1	4160.1	5.82	2270.0	12740.1	10.09
2250.2	6849.8	9.66	1090.1	4280.1	5.87	2190.0	12820.1	9.94
2044.7	7055.3	9.31	1210.1	4400.1	5.87	2110.0	12900.1	9.77
1839.2	7260.8	8.79	1330.1	4520.1	6.00	2030.0	12980.1	9.66
1633.6	7466.4	8.49	1450.1	4640.1	6.41	1950.0	13060.1	9.54
1428.1	7671.9	8.56	1570.1	4760.1	6.86	1870.0	13140.1	9.55
1222.6	7877.4	8.66	1690.1	4880.1	7.30	1790.0	13220.1	9.41
1017.1	8082.9	8.88	1810.1	5000.1	7.51	1710.0	13300.1	9.26
811.5	8288.5	8.44	1930.1	5120.1	7.71	1630.0	13380.1	9.11
606.0	8494.0	8.14	2050.1	5240.1	8.08	1550.0	13460.1	9.25
400.5	8699.5	7.74	2170.1	5360.1	7.77	1470.0	13540.1	9.22
195.0	8905.0	7.53	2290.1	5480.1	7.43	1410.0	13600.1	9.15
10.0	9110.0	8.02	2410.1	5600.1	7.45	1330.0	13680.1	8.96
224.0	9324.0	7.65	2530.1	5720.1	7.34	1270.0	13740.1	8.96
418.5	9518.5	7.75	2650.1	5840.1	7.25	1190.0	13820.1	8.84
632.4	9732.4	8.04	2770.1	5960.1	7.22	1130.0	13880.1	8.88
826.9	9926.9	8.23	2890.1	6080.1	7.05	1050.0	13960.1	8.88
1040.9	10140.9	8.35	3010.1	6200.1	7.16	990.0	14020.1	8.82
1235.4	10335.4	8.38	3130.1	6320.1	7.09	910.0	14100.1	8.91
1449.3	10549.3	8.62	3250.1	6440.1	7.04	850.0	14160.1	8.96
1643.8	10743.8	8.73	3370.1	6560.1	7.06	770.0	14240.1	9.17
1857.8	10957.8	8.77	3490.1	6680.1	7.16	710.0	14300.1	9.22
2052.3	11152.3	8.93	3610.1	6800.1	7.40	630.0	14380.1	9.47
2266.3	11366.3	9.15	3730.1	6920.1	7.32	570.0	14440.1	9.63
2460.8	11560.8	9.92	3850.1	7040.1	7.24	490.0	14520.1	9.74
2674.7	11774.7	10.14	3950.1	7140.1	7.25	430.0	14580.1	9.61
2869.2	11969.2	10.03	4070.1	7260.1	7.67	350.0	14660.1	9.53
3083.2	12183.2	9.76	4170.1	7360.1	8.15	290.0	14720.1	9.44
3277.7	12377.7	9.54	4290.1	7480.1	8.58	210.0	14800.1	9.33
3491.6	12591.6	9.76	4390.1	7580.1	9.13	150.0	14860.1	9.26
3686.1	12786.1	10.00	4510.1	7700.1	10.06	70.0	14940.1	9.05
3900.1	13000.1	10.08	4610.1	7800.1	10.96	10.0	15000.1	9.53

# Frequency Mixer

# SIM-153LH+

## 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)		
	+7	+10	+13	+7	+10	+13			+7	+10	+13
2630.1	41.32	42.74	41.96	22.23	22.37	22.62	2600.1	2630.1	15.00	15.10	13.18
2947.6	40.01	39.51	36.71	20.87	21.44	22.75	2917.6	2947.6	16.88	15.36	12.59
3265.1	41.11	39.24	37.76	19.77	20.92	22.41	3235.1	3265.1	19.03	17.44	17.05
3582.6	45.83	43.70	41.74	18.93	20.08	20.86	3552.6	3582.6	22.07	22.28	22.48
3900.1	41.13	40.06	39.20	18.90	19.49	19.75	3870.1	3900.1	22.88	22.22	21.29
4217.6	36.83	36.20	36.00	17.37	17.11	16.83	4187.6	4217.6	19.51	18.77	18.09
4535.1	37.58	37.28	37.14	15.47	15.10	14.73	4505.1	4535.1	17.52	17.15	16.87
4852.6	39.57	39.69	39.37	14.40	13.73	12.87	4822.6	4852.6	20.12	19.72	19.29
5170.1	38.18	39.58	40.29	14.07	13.53	12.67	5140.1	5170.1	26.59	25.78	25.01
5487.6	37.09	38.71	40.21	14.59	14.31	13.92	5457.6	5487.6	25.78	25.53	25.19
5805.1	36.18	37.59	39.00	14.49	14.86	14.93	5775.1	5805.1	23.61	23.45	23.20
6122.6	36.59	38.56	40.40	14.86	15.79	16.42	6092.6	6122.6	23.12	22.80	22.57
6440.1	35.03	36.75	38.53	15.81	17.12	18.40	6410.1	6440.1	24.26	23.98	23.79
6757.6	32.81	34.52	36.00	16.32	17.96	19.57	6727.6	6757.6	27.69	27.57	27.48
7075.1	30.21	32.08	33.55	16.18	17.91	19.30	7045.1	7075.1	35.33	35.69	35.99
7392.6	33.64	35.51	36.13	15.72	16.12	16.25	7362.6	7392.6	24.19	23.88	23.75
7710.1	34.99	34.30	33.24	13.83	12.93	11.87	7680.1	7710.1	21.56	21.34	21.09
8027.6	30.06	29.62	29.59	13.88	12.67	11.78	7997.6	8027.6	18.72	18.65	18.64
8345.1	31.81	30.99	30.42	15.72	14.64	14.02	8315.1	8345.1	18.84	18.61	18.54
8662.6	36.39	38.17	38.96	20.64	20.19	20.02	8632.6	8662.6	25.28	23.74	22.46
8980.1	32.19	31.61	31.26	26.49	26.25	25.66	8950.1	8980.1	32.03	31.30	29.38
9329.3	29.51	29.22	28.77	21.70	21.51	20.54	9299.3	9329.3	22.76	23.33	23.77
9646.8	28.70	28.69	29.05	19.17	19.31	19.34	9616.8	9646.8	18.49	18.79	19.31
9996.1	30.12	30.72	31.11	20.01	20.64	20.41	9966.1	9996.1	18.14	18.53	18.84
10313.6	31.55	31.89	32.55	21.48	21.86	22.10	10283.6	10313.6	18.33	18.69	19.07
10662.8	35.16	35.39	35.29	23.69	24.48	24.51	10632.9	10662.9	20.07	20.39	20.61
10980.3	41.14	42.04	42.65	27.01	27.66	27.86	10950.3	10980.3	22.04	22.35	22.57
11329.6	46.08	49.75	50.17	29.39	29.58	29.83	11299.6	11329.6	22.57	22.84	22.89
11647.1	46.04	54.91	51.55	30.65	31.26	31.43	11617.1	11647.1	21.79	22.00	22.07
11996.4	42.83	52.62	43.89	34.16	34.84	33.98	11966.4	11996.4	19.79	19.89	19.87
12313.8	42.13	43.48	38.53	38.05	37.50	35.50	12283.8	12313.8	18.38	18.51	18.48
12663.1	44.26	41.74	36.25	51.43	40.20	34.31	12633.1	12663.1	16.74	16.98	17.09
12980.6	45.61	37.61	33.16	59.84	40.74	34.08	12950.6	12980.6	16.47	16.65	16.81
13329.9	34.23	31.45	29.06	36.33	33.42	31.00	13299.9	13329.9	14.88	15.06	15.18
13647.3	28.26	27.15	25.87	30.06	29.13	27.99	13617.3	13647.3	14.94	15.16	15.36
13996.6	24.41	24.33	23.63	27.14	26.97	26.37	13966.6	13996.6	16.20	16.49	16.96
14314.1	23.12	23.38	23.05	28.26	28.26	27.82	14284.1	14314.1	17.94	18.30	19.10
14663.4	21.33	21.32	21.30	35.48	37.56	37.81	14633.4	14663.4	24.43	24.02	23.55
14980.8	17.39	17.83	17.61	28.17	29.90	31.35	14950.8	14980.8	24.67	24.20	23.66
15330.1	16.92	17.45	17.60	26.36	27.60	27.05	15300.1	15330.1	17.05	17.25	17.33

# Frequency Mixer

# SIM-153LH+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=15000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
2600.1	2630.1	3.57	2.66	1.75	2630.1	40.41	38.61	34.07	10.0	1.07	1.12	1.54
2917.6	2947.6	2.63	1.82	1.51	2947.6	30.49	25.19	20.22	129.7	1.18	1.21	1.61
3235.1	3265.1	2.19	1.95	1.90	3265.1	16.26	13.09	12.80	249.5	1.34	1.34	1.63
3552.6	3582.6	2.57	2.49	2.46	3582.6	8.08	8.51	9.33	369.2	1.56	1.51	1.69
3870.1	3900.1	3.07	3.01	2.97	3900.1	5.38	6.37	7.31	488.9	1.80	1.73	1.82
4187.6	4217.6	3.20	3.08	2.99	4217.6	4.14	5.09	6.03	608.7	2.04	1.94	1.97
4505.1	4535.1	2.92	2.82	2.73	4535.1	2.86	3.57	4.32	728.4	2.19	2.08	2.08
4822.6	4852.6	3.17	2.96	2.76	4852.6	1.86	2.25	2.67	848.1	2.30	2.18	2.13
5140.1	5170.1	4.70	4.39	4.08	5170.1	1.30	1.67	2.06	967.9	2.38	2.25	2.18
5457.6	5487.6	4.70	4.50	4.27	5487.6	1.74	2.25	2.80	1087.6	2.34	2.20	2.13
5775.1	5805.1	4.07	3.89	3.73	5805.1	2.25	2.89	3.52	1207.3	2.27	2.09	2.00
6092.6	6122.6	3.48	3.25	3.08	6122.6	2.64	3.22	3.92	1327.1	2.22	2.00	1.85
6410.1	6440.1	2.97	2.66	2.47	6440.1	3.02	3.62	4.22	1446.8	2.16	1.90	1.68
6727.6	6757.6	2.28	2.00	1.81	6757.6	3.38	3.95	4.55	1566.5	2.10	1.83	1.54
7045.1	7075.1	1.62	1.44	1.28	7075.1	3.57	4.08	4.75	1686.3	2.07	1.78	1.43
7362.6	7392.6	1.13	1.01	1.09	7392.6	3.87	4.10	4.52	1806.0	2.05	1.75	1.38
7680.1	7710.1	1.17	1.19	1.28	7710.1	3.67	3.48	3.56	1925.7	2.08	1.78	1.36
7997.6	8027.6	1.67	1.72	1.81	8027.6	2.86	2.62	2.62	2045.5	2.05	1.76	1.35
8315.1	8345.1	2.22	2.28	2.36	8345.1	2.21	2.01	2.03	2165.2	2.10	1.80	1.42
8632.6	8662.6	2.72	2.74	2.81	8662.6	1.81	1.76	1.90	2284.9	2.19	1.90	1.56
8950.1	8980.1	3.62	3.65	3.70	8980.1	1.53	1.59	1.81	2404.7	2.36	2.09	1.78
9299.3	9329.3	4.14	4.12	4.12	9329.3	1.39	1.63	1.95	2524.4	2.54	2.27	1.94
9616.8	9646.8	4.66	4.54	4.45	9646.8	1.65	1.99	2.42	2644.1	2.51	2.25	1.97
9966.1	9996.1	4.42	4.30	4.20	9996.1	2.26	2.57	3.02	2743.9	2.41	2.20	1.98
10283.6	10313.6	5.02	4.91	4.82	10313.6	2.81	2.97	3.31	2863.6	2.32	2.14	2.01
10632.9	10662.9	5.95	5.74	5.56	10662.8	2.89	2.82	2.99	2963.4	2.28	2.13	2.07
10950.3	10980.3	5.41	5.17	4.99	10980.3	3.10	2.91	3.07	3083.2	2.29	2.17	2.17
11299.6	11329.6	7.00	6.63	6.39	11329.6	3.80	3.25	3.25	3182.9	2.29	2.19	2.24
11617.1	11647.1	6.17	5.70	5.36	11647.1	5.04	3.79	3.42	3302.7	2.37	2.31	2.43
11966.4	11996.4	5.54	5.19	4.92	11996.4	6.30	4.29	3.52	3402.4	2.40	2.36	2.52
12283.8	12313.8	7.00	6.35	5.99	12313.8	5.93	3.95	3.01	3522.2	2.56	2.55	2.76
12633.1	12663.1	7.44	6.51	5.99	12663.1	4.23	3.01	2.28	3622.0	2.63	2.64	2.89
12950.6	12980.6	5.54	5.00	4.54	12980.6	2.97	2.31	1.99	3741.7	2.81	2.86	3.18
13299.9	13329.9	3.20	2.97	2.72	13329.9	2.40	2.21	2.25	3841.5	2.92	3.00	3.38
13617.3	13647.3	2.89	2.71	2.45	13647.3	2.11	2.29	2.50	3961.2	3.15	3.31	3.81
13966.6	13996.6	1.73	1.60	1.40	13996.6	2.21	2.61	2.94	4061.0	3.31	3.51	4.08
14284.1	14314.1	1.27	1.28	1.36	14314.1	2.78	3.25	3.71	4180.7	3.72	4.01	4.74
14633.4	14663.4	1.59	1.67	1.80	14663.4	2.84	2.99	3.26	4280.5	4.00	4.36	5.17
14950.8	14980.8	2.61	2.69	2.86	14980.8	2.33	2.28	2.37	4400.2	4.38	4.82	5.75
15300.1	15330.1	3.54	3.56	3.63	15330.1	1.62	1.63	1.71	4500.0	4.84	5.39	6.44

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+13	22	11	---	---	---	---	---	---	---
1	-	14	+0	35	24	42	---	---	---	---	---	---
2	81	55	41	49	45	56	51	---	---	---	---	---
3	>90	68	64	>72	60	63	>72	71	---	---	---	---
4	---	---	>72	>72	>72	>72	>72	>72	>72	---	---	---
5	---	---	---	>72	>72	>72	>72	>72	>72	>72	---	---
6	---	---	---	---	>72	>72	>72	>72	>72	>72	>72	---
7	---	---	---	---	---	>72	>72	>72	>72	>72	>72	>72
8	---	---	---	---	---	---	>72	>72	>72	>72	>72	>72
9	---	---	---	---	---	---	---	>72	>72	>72	>72	>72
10	---	---	---	---	---	---	---	---	>72	>72	>72	>72
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 7700 MHz; -12.00 dBm.  
 LO IN: 7730 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -18.45 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+4	32	22	---	---	---	---	---	---	---
1	-	14	+0	38	25	48	---	---	---	---	---	---
2	61	44	31	40	37	48	46	---	---	---	---	---
3	77	50	44	58	39	48	55	60	---	---	---	---
4	---	---	73	73	56	58	57	62	64	---	---	---
5	---	---	---	76	73	74	61	61	75	70	---	---
6	---	---	---	---	>81	>81	76	74	73	77	79	---
7	---	---	---	---	---	>81	>81	>81	75	73	>81	81
8	---	---	---	---	---	---	>81	>81	>81	80	>81	>81
9	---	---	---	---	---	---	---	>81	>81	>81	>81	>81
10	---	---	---	---	---	---	---	---	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 7700 MHz; -2.00 dBm.  
 LO IN: 7730 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -8.74 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.