

# Frequency Mixer

# TFM-2400+

## 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
150.0	180.0	15.25	10.20	8.07	150.0	180.0	-0.71	6.23	14.97	150.0	180.0	-2.57	-0.22	0.21
250.0	280.0	8.12	6.56	6.01	250.0	280.0	7.14	10.76	17.46	250.0	280.0	1.44	1.18	0.84
350.0	380.0	6.48	5.75	5.39	350.0	380.0	7.75	12.48	18.22	350.0	380.0	2.03	1.53	1.22
450.0	480.0	5.98	5.40	5.09	450.0	480.0	10.26	17.52	16.66	450.0	480.0	2.30	1.84	1.56
550.0	580.0	5.91	5.41	5.10	550.0	580.0	12.17	17.02	14.84	550.0	580.0	2.33	1.93	1.65
650.0	680.0	5.87	5.38	5.09	650.0	680.0	13.35	18.80	14.68	650.0	680.0	2.38	2.01	1.72
750.0	780.0	6.09	5.55	5.24	750.0	780.0	15.70	21.22	17.84	750.0	780.0	2.35	2.06	1.79
850.0	880.0	6.80	6.11	5.66	850.0	880.0	11.29	14.30	15.14	850.0	880.0	1.97	1.81	1.67
970.0	1000.0	7.01	6.47	6.08	970.0	1000.0	8.31	9.43	10.50	970.0	1000.0	1.79	1.58	1.42
1070.0	1100.0	6.90	6.47	6.15	1070.0	1100.0	7.94	8.56	9.44	1070.0	1100.0	1.85	1.56	1.35
1190.0	1220.0	6.67	6.28	6.04	1190.0	1220.0	8.80	9.65	10.17	1190.0	1220.0	1.67	1.40	1.17
1290.0	1320.0	6.58	6.22	5.99	1290.0	1320.0	8.61	9.75	10.87	1290.0	1320.0	1.50	1.24	1.05
1410.0	1440.0	6.44	6.13	5.94	1410.0	1440.0	9.73	9.93	10.72	1410.0	1440.0	1.21	0.92	0.75
1510.0	1540.0	6.19	5.90	5.76	1510.0	1540.0	11.02	11.76	11.60	1510.0	1540.0	1.04	0.71	0.53
1630.0	1660.0	6.16	5.76	5.57	1630.0	1660.0	13.46	15.82	16.94	1630.0	1660.0	1.36	0.97	0.72
1730.0	1760.0	7.19	6.52	6.15	1730.0	1760.0	17.39	19.15	17.45	1730.0	1760.0	1.34	1.15	0.98
1850.0	1880.0	7.19	6.50	6.14	1850.0	1880.0	8.62	10.10	11.13	1850.0	1880.0	1.34	1.18	1.00
1950.0	1980.0	6.99	6.27	5.94	1950.0	1980.0	7.59	9.05	10.55	1950.0	1980.0	1.37	1.24	1.06
2070.0	2100.0	6.81	6.18	5.82	2070.0	2100.0	7.36	8.40	9.86	2070.0	2100.0	1.33	1.15	0.99
2170.0	2200.0	6.59	6.05	5.72	2170.0	2200.0	7.23	8.03	9.21	2170.0	2200.0	1.40	1.15	0.98
2290.0	2320.0	6.30	5.82	5.53	2290.0	2320.0	6.98	7.68	8.75	2290.0	2320.0	1.61	1.33	1.13
2390.0	2420.0	6.21	5.78	5.50	2390.0	2420.0	6.80	7.22	8.05	2390.0	2420.0	1.68	1.36	1.13
2510.0	2540.0	6.27	5.86	5.62	2510.0	2540.0	6.94	7.43	8.10	2510.0	2540.0	1.68	1.34	1.08
2610.0	2640.0	6.30	5.91	5.68	2610.0	2640.0	7.39	7.91	8.39	2610.0	2640.0	1.57	1.25	1.02
2730.0	2760.0	6.36	5.97	5.74	2730.0	2760.0	8.05	8.69	9.22	2730.0	2760.0	1.45	1.16	0.96
2830.0	2860.0	6.49	6.08	5.84	2830.0	2860.0	8.62	9.01	9.82	2830.0	2860.0	1.35	1.05	0.88
2950.0	2980.0	6.58	6.22	6.00	2950.0	2980.0	9.77	9.55	9.90	2950.0	2980.0	1.37	1.04	0.86
3050.0	3080.0	6.77	6.43	6.24	3050.0	3080.0	10.53	10.57	10.84	3050.0	3080.0	1.30	0.98	0.83
3170.0	3200.0	7.25	6.91	6.73	3170.0	3200.0	11.04	12.56	13.67	3170.0	3200.0	1.14	0.82	0.68
3270.0	3300.0	7.61	7.29	7.15	3270.0	3300.0	11.67	13.97	15.07	3270.0	3300.0	0.98	0.64	0.54
3390.0	3420.0	8.09	7.70	7.53	3390.0	3420.0	11.68	13.78	16.30	3390.0	3420.0	0.77	0.44	0.37
3490.0	3520.0	8.34	7.89	7.67	3490.0	3520.0	11.75	12.47	14.77	3490.0	3520.0	0.75	0.40	0.30
3610.0	3640.0	8.41	7.96	7.72	3610.0	3640.0	12.41	12.71	13.11	3610.0	3640.0	0.85	0.44	0.30
3710.0	3740.0	8.63	8.12	7.85	3710.0	3740.0	12.23	14.46	13.20	3710.0	3740.0	0.91	0.47	0.30
3830.0	3860.0	8.96	8.27	7.97	3830.0	3860.0	11.81	14.64	15.69	3830.0	3860.0	1.01	0.50	0.34
3930.0	3960.0	9.27	8.39	8.05	3930.0	3960.0	11.53	14.74	16.25	3930.0	3960.0	1.03	0.53	0.34
4050.0	4080.0	9.84	8.70	8.27	4050.0	4080.0	12.30	15.48	17.14	4050.0	4080.0	0.90	0.50	0.33
4150.0	4180.0	10.27	8.91	8.39	4150.0	4180.0	12.10	14.95	17.20	4150.0	4180.0	0.78	0.50	0.32
4270.0	4300.0	10.77	9.00	8.40	4270.0	4300.0	10.69	13.65	15.35	4270.0	4300.0	0.69	0.52	0.33
4370.0	4400.0	11.40	9.21	8.42	4370.0	4400.0	9.85	12.35	14.59	4370.0	4400.0	0.55	0.63	0.37



# Frequency Mixer

# TFM-2400+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1575MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=739.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2410.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
1390.0	185.0	10.94	10.1	750.0	5.90	1770.1	640.0	10.65
1316.4	258.6	9.15	50.6	790.5	5.55	1729.6	680.5	9.98
1242.8	332.2	8.63	91.0	830.9	5.42	1689.2	720.9	9.49
1169.2	405.8	8.19	131.5	871.4	5.49	1648.7	761.4	9.04
1095.6	479.4	8.13	171.9	911.8	5.64	1608.3	801.8	8.70
1022.0	553.0	8.26	212.4	952.3	5.79	1567.8	842.3	8.35
948.4	626.6	8.20	252.9	992.8	5.86	1527.3	882.8	8.26
874.8	700.2	7.70	293.3	1033.2	5.92	1486.9	923.2	8.28
801.2	773.8	6.80	333.8	1073.7	5.96	1446.4	963.7	8.11
727.6	847.4	6.30	374.2	1114.1	5.95	1406.0	1004.1	8.06
654.0	921.0	6.47	414.7	1154.6	5.95	1365.5	1044.6	8.06
580.4	994.6	6.59	455.2	1195.1	6.05	1325.0	1085.1	8.02
506.8	1068.2	6.52	495.6	1235.5	6.12	1284.6	1125.5	7.80
433.2	1141.8	6.29	536.1	1276.0	6.18	1244.1	1166.0	7.33
359.6	1215.4	6.21	576.5	1316.4	6.16	1203.7	1206.4	6.85
286.0	1289.0	6.12	617.0	1356.9	6.05	1163.2	1246.9	6.62
212.4	1362.6	6.00	657.5	1397.4	5.98	1122.7	1287.4	6.63
138.8	1436.2	5.90	697.9	1437.8	6.02	1082.3	1327.8	6.67
65.2	1509.8	5.83	738.4	1478.3	6.10	1041.8	1368.3	6.72
10.0	1585.0	6.15	778.8	1518.7	6.12	1001.4	1408.7	6.72
97.5	1672.5	5.60	819.3	1559.2	6.18	960.9	1449.2	6.69
184.9	1759.9	5.97	859.8	1599.7	6.23	920.4	1489.7	6.64
272.4	1847.4	6.60	900.2	1640.1	6.28	880.0	1530.1	6.55
359.9	1934.9	6.91	960.9	1700.8	6.34	819.3	1590.8	6.44
447.3	2022.3	7.06	1001.4	1741.3	6.37	778.8	1631.3	6.36
534.8	2109.8	7.18	1062.1	1802.0	6.42	718.1	1692.0	6.32
622.3	2197.3	7.32	1102.5	1842.4	6.46	677.7	1732.4	6.30
709.7	2284.7	7.39	1163.2	1903.1	6.50	617.0	1793.1	6.29
797.2	2372.2	7.47	1203.7	1943.6	6.54	576.5	1833.6	6.28
884.7	2459.7	7.57	1264.4	2004.3	6.61	515.8	1894.3	6.13
972.1	2547.1	7.66	1304.8	2044.7	6.67	475.4	1934.7	5.92
1037.7	2612.7	7.77	1365.5	2105.4	6.81	414.7	1995.4	5.76
1125.2	2700.2	7.89	1406.0	2145.9	6.94	374.2	2035.9	5.77
1190.8	2765.8	7.95	1466.7	2206.6	7.30	313.5	2096.6	5.76
1278.3	2853.3	8.17	1507.1	2247.0	7.59	273.1	2137.0	5.77
1343.9	2918.9	8.43	1567.8	2307.7	7.92	212.4	2197.7	5.76
1431.3	3006.3	8.80	1608.3	2348.2	8.26	171.9	2238.2	5.77
1496.9	3071.9	9.36	1669.0	2408.9	8.85	111.2	2298.9	5.80
1584.4	3159.4	9.91	1709.4	2449.3	9.37	70.8	2339.3	5.82
1650.0	3225.0	10.52	1770.1	2510.0	10.35	10.1	2400.0	6.03



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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
180.0	25.22	26.03	27.77	35.42	32.45	30.94
280.0	24.75	27.07	29.48	29.55	29.25	30.14
380.0	26.41	28.86	31.32	28.48	29.52	30.43
480.0	27.65	30.25	32.87	29.23	30.14	30.53
580.0	29.01	31.68	34.36	30.13	30.57	30.55
680.0	29.97	32.82	35.76	30.08	30.26	30.14
780.0	30.64	33.47	36.44	28.57	28.73	28.76
880.0	30.95	33.41	35.92	26.42	26.62	26.67
1000.0	31.92	34.42	36.88	23.72	24.00	24.13
1100.0	31.92	34.39	36.84	21.55	21.83	21.95
1220.0	32.21	34.53	36.84	19.42	19.52	19.68
1320.0	32.24	34.51	36.59	17.90	17.98	18.02
1440.0	31.79	33.97	35.97	16.25	16.32	16.46
1540.0	34.13	36.45	38.49	15.77	15.87	15.84
1660.0	31.70	33.47	34.93	14.81	14.97	14.99
1760.0	30.86	32.30	33.62	14.53	14.62	14.79
1880.0	31.70	33.17	34.30	14.33	14.48	14.58
1980.0	32.09	33.40	34.49	14.51	14.57	14.71
2100.0	32.71	33.74	34.51	14.97	15.06	15.19
2200.0	33.18	34.35	34.87	15.46	15.61	15.75
2320.0	33.56	35.00	35.68	16.22	16.35	16.48
2420.0	34.00	35.64	36.50	17.05	17.21	17.29
2540.0	34.53	36.42	37.48	18.10	18.14	18.12
2640.0	34.86	37.11	38.56	19.04	19.07	18.99
2760.0	35.30	38.16	40.34	20.18	19.99	19.94
2860.0	34.68	37.67	40.35	21.15	20.83	20.51
2980.0	33.96	36.54	38.71	22.22	21.67	21.29
3080.0	34.08	36.94	39.11	22.70	22.10	21.80
3200.0	35.14	39.76	42.93	23.47	23.01	22.95
3300.0	35.75	42.72	60.45	24.31	24.08	24.06
3420.0	33.86	36.87	39.24	24.45	23.76	23.28
3520.0	31.82	33.02	33.87	23.44	22.41	21.65
3640.0	30.00	30.48	30.66	21.39	20.55	19.76
3740.0	28.88	29.04	29.06	19.79	19.04	18.42
3860.0	27.53	27.41	27.33	17.98	17.37	16.83
3960.0	26.41	26.09	26.05	16.61	16.04	15.67
4080.0	24.94	24.54	24.47	14.92	14.59	14.36
4180.0	23.97	23.62	23.45	13.86	13.73	13.50
4300.0	22.87	22.60	22.55	12.89	12.84	12.82
4400.0	21.88	21.97	21.75	12.18	12.40	12.30

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
150.0	180.0	39.93	42.92	44.52
250.0	280.0	42.82	46.14	52.05
350.0	380.0	49.46	50.85	46.85
450.0	480.0	44.42	42.04	40.73
550.0	580.0	37.18	35.57	35.00
650.0	680.0	34.87	33.47	32.45
750.0	780.0	32.50	31.29	30.48
850.0	880.0	30.03	29.86	29.68
970.0	1000.0	28.10	27.96	27.79
1070.0	1100.0	28.45	28.06	27.85
1190.0	1220.0	30.76	30.15	29.62
1290.0	1320.0	30.86	30.07	29.52
1410.0	1440.0	30.42	29.64	29.07
1510.0	1540.0	26.50	25.94	25.49
1630.0	1660.0	32.53	32.18	32.04
1730.0	1760.0	41.72	40.85	39.59
1850.0	1880.0	32.08	32.11	31.93
1950.0	1980.0	30.86	30.92	30.62
2070.0	2100.0	30.51	30.44	30.26
2170.0	2200.0	30.75	30.53	30.33
2290.0	2320.0	30.95	30.64	30.36
2390.0	2420.0	31.07	30.63	30.32
2510.0	2540.0	30.62	30.26	29.90
2610.0	2640.0	30.35	30.02	29.60
2730.0	2760.0	29.66	29.28	28.94
2830.0	2860.0	29.06	28.54	28.17
2950.0	2980.0	28.40	27.70	27.12
3050.0	3080.0	27.73	26.88	26.19
3170.0	3200.0	26.86	25.89	25.08
3270.0	3300.0	26.92	26.00	25.42
3390.0	3420.0	29.65	28.92	28.43
3490.0	3520.0	33.67	33.00	32.29
3610.0	3640.0	36.36	35.29	34.45
3710.0	3740.0	35.24	34.37	33.64
3830.0	3860.0	33.16	32.30	31.96
3930.0	3960.0	31.66	31.00	30.69
4050.0	4080.0	29.75	29.20	28.97
4150.0	4180.0	28.55	28.23	28.02
4270.0	4300.0	27.33	27.07	26.90
4370.0	4400.0	26.84	26.75	26.62

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## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
150.0	180.0	10.96	6.68	5.16
250.0	280.0	3.22	2.62	2.45
350.0	380.0	1.96	1.76	1.67
450.0	480.0	1.65	1.48	1.39
550.0	580.0	1.72	1.56	1.46
650.0	680.0	1.96	1.78	1.67
750.0	780.0	2.37	2.15	2.01
850.0	880.0	3.11	2.86	2.67
970.0	1000.0	3.76	3.52	3.35
1070.0	1100.0	3.83	3.65	3.49
1190.0	1220.0	3.63	3.47	3.34
1290.0	1320.0	3.43	3.28	3.17
1410.0	1440.0	3.08	2.93	2.82
1510.0	1540.0	2.59	2.41	2.30
1630.0	1660.0	2.50	2.23	2.05
1730.0	1760.0	3.37	3.06	2.85
1850.0	1880.0	3.47	3.16	2.95
1950.0	1980.0	3.16	2.84	2.64
2070.0	2100.0	2.84	2.58	2.40
2170.0	2200.0	2.58	2.38	2.23
2290.0	2320.0	2.35	2.18	2.05
2390.0	2420.0	2.21	2.07	1.97
2510.0	2540.0	2.08	1.97	1.90
2610.0	2640.0	2.05	1.97	1.92
2730.0	2760.0	2.08	2.03	2.01
2830.0	2860.0	2.23	2.18	2.15
2950.0	2980.0	2.46	2.42	2.40
3050.0	3080.0	2.65	2.61	2.59
3170.0	3200.0	3.01	2.97	2.95
3270.0	3300.0	3.26	3.24	3.24
3390.0	3420.0	3.58	3.55	3.55
3490.0	3520.0	3.71	3.65	3.63
3610.0	3640.0	3.91	3.80	3.76
3710.0	3740.0	4.06	3.90	3.80
3830.0	3860.0	4.24	4.00	3.87
3930.0	3960.0	4.31	4.00	3.85
4050.0	4080.0	4.41	4.01	3.82
4150.0	4180.0	4.52	4.04	3.84
4270.0	4300.0	4.41	3.88	3.66
4370.0	4400.0	4.45	3.85	3.58

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
180.0	10.69	9.38	7.76
280.0	4.87	4.39	4.59
380.0	2.91	3.15	3.76
480.0	2.22	2.70	3.38
580.0	1.94	2.48	3.12
680.0	1.81	2.34	2.89
780.0	1.75	2.21	2.69
880.0	1.72	2.10	2.50
1000.0	1.73	1.99	2.30
1100.0	1.74	1.90	2.14
1220.0	1.75	1.81	1.97
1320.0	1.74	1.73	1.84
1440.0	1.70	1.63	1.71
1540.0	1.65	1.54	1.61
1660.0	1.59	1.45	1.51
1760.0	1.54	1.39	1.46
1880.0	1.48	1.32	1.41
1980.0	1.43	1.30	1.41
2100.0	1.37	1.29	1.43
2200.0	1.33	1.28	1.45
2320.0	1.30	1.27	1.45
2420.0	1.27	1.26	1.45
2540.0	1.23	1.25	1.45
2640.0	1.19	1.24	1.45
2760.0	1.15	1.24	1.46
2860.0	1.13	1.27	1.49
2980.0	1.13	1.32	1.55
3080.0	1.17	1.39	1.62
3200.0	1.26	1.49	1.73
3300.0	1.37	1.59	1.83
3420.0	1.56	1.74	1.98
3520.0	1.70	1.86	2.07
3640.0	1.86	1.96	2.13
3740.0	1.97	2.03	2.17
3860.0	2.08	2.07	2.15
3960.0	2.11	2.04	2.09
4080.0	2.07	1.95	1.95
4180.0	1.99	1.84	1.80
4300.0	1.84	1.69	1.62
4400.0	1.66	1.53	1.45

IF (OUT) (MHz)	IF VSWR @LO=2400MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.0	1.29	1.09	1.05
70.0	1.29	1.11	1.08
130.0	1.28	1.10	1.09
190.0	1.31	1.16	1.14
250.0	1.29	1.17	1.19
310.0	1.30	1.17	1.20
370.0	1.33	1.25	1.28
430.0	1.30	1.24	1.31
490.0	1.29	1.23	1.29
550.0	1.30	1.28	1.36
610.0	1.24	1.25	1.36
670.0	1.23	1.25	1.36
730.0	1.22	1.31	1.46
790.0	1.19	1.31	1.47
850.0	1.21	1.35	1.51
910.0	1.24	1.41	1.60
970.0	1.23	1.40	1.59
1030.0	1.24	1.42	1.62
1090.0	1.28	1.47	1.66
1150.0	1.29	1.48	1.66
1210.0	1.35	1.54	1.72
1270.0	1.41	1.59	1.76
1330.0	1.46	1.62	1.78
1390.0	1.53	1.68	1.82
1450.0	1.54	1.66	1.77
1510.0	1.59	1.70	1.79
1570.0	1.61	1.71	1.81
1630.0	1.53	1.62	1.70
1690.0	1.53	1.61	1.68
1750.0	1.52	1.59	1.64
1810.0	1.53	1.59	1.63
1870.0	1.60	1.65	1.69
1930.0	1.70	1.74	1.76
1990.0	1.82	1.85	1.87
2050.0	1.99	2.01	2.03
2110.0	2.17	2.19	2.19
2150.0	2.29	2.30	2.31
2210.0	2.50	2.51	2.52
2250.0	2.64	2.65	2.65
2310.0	2.85	2.86	2.86

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+11	22	14	50	27	41	31	37	44	59
1	-	23	+0	41	23	43	41	54	48	45	42	64
2	85	>70	50	65	49	>70	62	>70	62	63	61	62
3	>90	>70	>70	>70	63	>70	>70	>70	>70	>70	>70	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1575 MHz; -14.00 dBm.  
 LO IN: 1605 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -20.19 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+2	32	25	55	40	61	47	59	67	74
1	-	23	+0	49	23	45	42	55	52	51	50	73
2	65	>80	46	56	44	68	54	71	54	61	59	60
3	>90	72	52	49	41	66	54	64	64	75	65	62
4	>90	>80	77	>80	58	75	60	79	75	79	70	71
5	>90	>80	>80	>80	>80	75	75	74	>80	>80	>80	>80
6	>90	>80	>80	>80	>80	>80	73	>80	75	>80	>80	>80
7	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>90	>80	>80	>80	>80	>80	>80	>80	78	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1575 MHz; -4.00 dBm.  
 LO IN: 1605 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -10.26 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.