

# Frequency Mixer

# LRMS-20J+

## 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)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
600.1	630.1	12.49	11.44	10.99	600.1	630.1	8.28	10.76	14.36	600.1	630.1	0.03	0.03	0.03
660.1	690.1	11.21	10.45	10.13	660.1	690.1	6.27	8.92	10.51	660.1	690.1	0.30	0.10	0.02
720.1	750.1	10.59	9.90	9.59	720.1	750.1	7.52	9.13	9.71	720.1	750.1	0.67	0.34	0.14
780.1	810.1	9.96	9.19	8.88	780.1	810.1	10.00	12.92	12.63	780.1	810.1	0.76	0.53	0.33
840.1	870.1	9.19	8.49	8.18	840.1	870.1	13.91	16.19	14.68	840.1	870.1	0.90	0.69	0.57
900.1	930.1	8.52	7.83	7.52	900.1	930.1	10.88	20.09	15.82	900.1	930.1	1.08	0.89	0.77
960.1	990.1	7.95	7.39	7.09	960.1	990.1	9.35	17.48	16.58	960.1	990.1	1.05	0.86	0.74
1020.1	1050.1	7.30	6.77	6.49	1020.1	1050.1	8.07	7.58	8.68	1020.1	1050.1	1.01	0.87	0.78
1080.1	1110.1	6.99	6.53	6.17	1080.1	1110.1	10.64	9.40	8.26	1080.1	1110.1	0.91	0.68	0.53
1140.1	1170.1	6.78	6.22	5.86	1140.1	1170.1	10.31	7.16	7.58	1140.1	1170.1	0.99	0.86	0.73
1200.1	1230.1	6.71	6.17	5.75	1200.1	1230.1	10.83	7.81	7.60	1200.1	1230.1	1.09	1.01	0.91
1260.1	1290.1	6.88	6.33	5.88	1260.1	1290.1	8.98	8.39	8.02	1260.1	1290.1	0.90	0.87	0.83
1320.1	1350.1	6.89	6.42	5.96	1320.1	1350.1	3.24	6.94	14.21	1320.1	1350.1	0.64	0.54	0.53
1380.1	1410.1	6.59	6.36	6.06	1380.1	1410.1	6.49	9.20	15.14	1380.1	1410.1	0.66	0.49	0.40
1440.1	1470.1	6.61	6.47	6.36	1440.1	1470.1	11.91	16.07	17.16	1440.1	1470.1	0.48	0.33	0.25
1500.1	1530.1	6.58	6.40	6.28	1500.1	1530.1	11.62	13.17	15.78	1500.1	1530.1	0.42	0.29	0.21
1560.1	1590.1	6.83	6.76	6.72	1560.1	1590.1	13.10	14.62	16.39	1560.1	1590.1	0.33	0.22	0.16
1620.1	1650.1	6.57	6.59	6.64	1620.1	1650.1	19.36	20.71	20.68	1620.1	1650.1	0.22	0.16	0.13
1680.1	1710.1	6.15	6.15	6.21	1680.1	1710.1	20.93	20.93	20.89	1680.1	1710.1	0.19	0.13	0.11
1740.1	1770.1	6.18	6.13	6.16	1740.1	1770.1	19.39	19.97	20.92	1740.1	1770.1	0.17	0.09	0.08
1800.1	1830.1	6.07	6.04	6.08	1800.1	1830.1	20.97	18.58	20.50	1800.1	1830.1	0.18	0.06	0.04
1860.1	1890.1	5.95	5.86	5.86	1860.1	1890.1	10.79	15.55	21.07	1860.1	1890.1	0.24	0.13	0.08
1920.1	1950.1	6.05	5.85	5.79	1920.1	1950.1	8.64	10.42	13.13	1920.1	1950.1	0.27	0.20	0.14
1980.1	2010.1	6.97	6.66	6.48	1980.1	2010.1	12.33	14.87	18.85	1980.1	2010.1	0.13	0.06	0.03
2040.1	2070.1	7.39	6.96	6.69	2040.1	2070.1	19.17	18.75	18.82	2040.1	2070.1	-0.05	-0.05	-0.02
2100.1	2130.1	7.09	6.63	6.39	2100.1	2130.1	19.43	18.77	18.48	2100.1	2130.1	0.03	0.02	0.02
2160.1	2190.1	6.70	6.32	6.13	2160.1	2190.1	17.68	17.77	17.89	2160.1	2190.1	0.12	0.08	0.06
2220.1	2250.1	6.80	6.43	6.23	2220.1	2250.1	16.08	17.44	18.20	2220.1	2250.1	0.09	0.06	0.04
2280.1	2310.1	6.59	6.18	5.99	2280.1	2310.1	11.59	13.56	15.33	2280.1	2310.1	0.19	0.13	0.08
2340.1	2370.1	6.25	5.94	5.77	2340.1	2370.1	11.38	12.77	14.46	2340.1	2370.1	0.26	0.19	0.13
2400.1	2430.1	6.19	5.84	5.69	2400.1	2430.1	11.26	12.59	14.38	2400.1	2430.1	0.28	0.19	0.13
2460.1	2490.1	6.25	5.87	5.71	2460.1	2490.1	10.63	12.76	15.04	2460.1	2490.1	0.36	0.27	0.18
2520.1	2550.1	6.31	6.02	5.88	2520.1	2550.1	13.78	15.45	16.49	2520.1	2550.1	0.33	0.23	0.17
2580.1	2610.1	6.66	6.36	6.24	2580.1	2610.1	15.04	17.67	18.36	2580.1	2610.1	0.28	0.17	0.12
2660.1	2690.1	7.33	7.06	7.00	2660.1	2690.1	15.87	17.82	17.68	2660.1	2690.1	0.18	0.10	0.08
2720.1	2750.1	7.97	7.75	7.70	2720.1	2750.1	16.82	20.13	20.15	2720.1	2750.1	0.11	0.08	0.06
2800.1	2830.1	8.86	8.68	8.63	2800.1	2830.1	15.05	17.43	19.37	2800.1	2830.1	0.06	0.06	0.04
2860.1	2890.1	9.67	9.40	9.34	2860.1	2890.1	16.07	17.75	19.33	2860.1	2890.1	0.03	0.04	0.03
2940.1	2970.1	10.88	10.66	10.59	2940.1	2970.1	18.56	18.62	18.70	2940.1	2970.1	0.05	0.02	0.02
3000.1	3030.1	11.85	11.67	11.62	3000.1	3030.1	18.08	18.17	18.19	3000.1	3030.1	0.04	0.02	0.02

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# LRMS-20J+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1750MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1490MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
249.9	1500.1	6.97	10.1	1500.1	6.72	510.0	1500.1	6.97
237.3	1512.7	6.85	22.6	1512.6	6.42	497.5	1512.6	6.85
224.6	1525.4	6.83	35.1	1525.1	6.39	485.0	1525.1	6.76
212.0	1538.0	6.80	47.6	1537.6	6.40	472.5	1537.6	6.58
199.4	1550.6	6.69	60.1	1550.1	6.42	460.0	1550.1	6.45
186.8	1563.2	6.58	72.6	1562.6	6.45	447.5	1562.6	6.44
174.1	1575.9	6.50	85.1	1575.1	6.52	435.0	1575.1	6.38
161.5	1588.5	6.35	97.6	1587.6	6.61	422.5	1587.6	6.24
148.9	1601.1	6.23	110.1	1600.1	6.77	410.0	1600.1	6.17
136.3	1613.7	6.12	122.6	1612.6	6.90	397.5	1612.6	6.15
123.6	1626.4	6.02	135.1	1625.1	6.96	385.0	1625.1	6.04
111.0	1639.0	5.93	147.6	1637.6	7.09	372.5	1637.6	6.00
98.4	1651.6	5.89	160.1	1650.1	7.20	360.0	1650.1	5.95
85.8	1664.2	5.89	172.6	1662.6	7.22	347.5	1662.6	5.95
73.1	1676.9	5.86	185.1	1675.1	7.23	335.0	1675.1	5.90
60.5	1689.5	5.87	197.6	1687.6	7.28	322.5	1687.6	5.80
47.9	1702.1	5.90	210.1	1700.1	7.26	310.0	1700.1	5.75
35.3	1714.7	5.93	222.6	1712.6	7.20	297.5	1712.6	5.78
22.6	1727.4	5.98	235.1	1725.1	7.18	285.0	1725.1	5.69
10.0	1740.0	6.36	247.6	1737.6	7.13	272.5	1737.6	5.69
10.0	1760.0	6.43	260.1	1750.1	7.00	260.0	1750.1	5.82
22.0	1772.0	6.10	272.6	1762.6	6.88	247.5	1762.6	5.89
34.0	1784.0	6.12	285.1	1775.1	6.76	235.0	1775.1	5.86
46.0	1796.0	6.18	297.6	1787.6	6.60	222.5	1787.6	5.97
58.0	1808.0	6.22	310.1	1800.1	6.40	210.0	1800.1	6.04
70.0	1820.0	6.28	322.6	1812.6	6.24	197.5	1812.6	6.01
82.0	1832.0	6.36	335.1	1825.1	6.18	185.0	1825.1	6.03
94.0	1844.0	6.32	347.6	1837.6	6.15	172.5	1837.6	6.15
106.0	1856.0	6.35	360.1	1850.1	6.10	160.0	1850.1	6.22
118.0	1868.0	6.29	372.6	1862.6	6.22	147.5	1862.6	6.28
130.1	1880.1	6.14	385.1	1875.1	6.37	135.0	1875.1	6.39
142.1	1892.1	5.95	397.6	1887.6	6.39	122.5	1887.6	6.55
154.1	1904.1	5.83	410.1	1900.1	6.36	110.0	1900.1	6.70
166.1	1916.1	5.74	422.6	1912.6	6.50	97.5	1912.6	6.82
178.1	1928.1	5.65	435.1	1925.1	6.51	85.0	1925.1	6.95
190.1	1940.1	5.66	447.6	1937.6	6.39	72.5	1937.6	7.06
202.1	1952.1	5.80	460.1	1950.1	6.41	60.0	1950.1	7.11
214.1	1964.1	5.87	472.6	1962.6	6.43	47.5	1962.6	7.13
238.1	1988.1	6.07	497.6	1987.6	6.31	22.5	1987.6	7.07
250.1	2000.1	6.24	510.1	2000.1	6.39	10.0	2000.1	7.37

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# LRMS-20J+

## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
630.1	23.62	24.67	26.02	8.53	9.52	10.77
690.1	23.17	24.23	25.47	8.45	9.50	10.75
750.1	22.82	24.00	25.16	8.05	9.19	10.45
810.1	23.44	24.59	25.77	8.30	9.50	10.83
870.1	25.00	26.44	27.61	8.90	10.22	11.57
930.1	26.63	28.07	29.15	9.55	10.94	12.29
990.1	28.65	30.09	31.18	10.42	11.89	13.27
1050.1	32.55	34.56	35.45	11.52	13.04	14.39
1110.1	37.49	36.88	35.72	12.66	14.20	15.55
1170.1	37.92	37.30	36.61	14.03	15.46	16.82
1230.1	34.45	34.76	35.21	15.57	16.98	18.27
1290.1	32.29	32.67	33.58	16.97	18.32	19.63
1350.1	32.73	32.58	33.36	18.40	19.77	21.10
1410.1	33.98	32.72	33.15	19.44	20.95	22.47
1470.1	35.97	34.99	34.79	20.24	21.83	23.39
1530.1	35.06	34.53	34.81	21.08	22.76	24.42
1590.1	36.57	35.89	35.86	21.72	23.48	25.13
1650.1	38.81	38.12	38.14	22.21	24.08	25.86
1710.1	38.91	40.39	41.74	22.83	24.78	26.55
1770.1	40.33	43.70	47.00	23.45	25.49	27.32
1830.1	39.10	42.89	47.14	24.06	26.17	28.10
1890.1	37.88	40.73	42.90	24.72	26.82	28.74
1950.1	36.98	39.04	40.52	25.35	27.51	29.44
2010.1	38.82	41.22	42.78	25.95	28.09	29.83
2070.1	33.78	36.04	38.27	26.37	28.40	30.01
2130.1	31.57	33.65	35.35	26.74	28.82	30.34
2190.1	29.71	32.81	35.44	27.20	29.06	30.67
2250.1	25.97	28.24	30.46	27.44	29.14	30.60
2310.1	24.65	26.91	29.12	27.70	29.38	30.73
2370.1	23.82	25.70	27.52	28.02	29.60	30.71
2430.1	23.44	25.71	27.64	28.79	30.36	31.38
2490.1	22.42	24.43	26.30	29.90	31.92	32.99
2550.1	22.35	24.20	25.83	32.22	34.08	34.60
2610.1	21.99	23.79	25.45	33.19	34.66	34.94
2690.1	21.77	23.59	25.20	33.46	34.84	35.06
2750.1	22.43	24.05	25.57	33.52	34.71	34.78
2830.1	23.58	25.14	26.47	33.60	34.39	34.14
2890.1	23.91	25.55	26.87	33.51	34.02	33.71
2970.1	25.29	26.69	27.53	34.55	35.13	33.97
3030.1	26.50	27.44	28.14	35.41	35.78	34.63

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
600.1	630.1	14.76	15.71	16.20
660.1	690.1	13.55	14.22	14.44
720.1	750.1	12.09	12.50	12.90
780.1	810.1	10.73	11.04	11.34
840.1	870.1	10.58	10.69	10.82
900.1	930.1	10.58	10.80	10.90
960.1	990.1	11.14	10.98	10.84
1020.1	1050.1	12.26	12.18	11.99
1080.1	1110.1	13.01	12.96	12.80
1140.1	1170.1	13.07	12.92	12.54
1200.1	1230.1	12.23	12.05	11.97
1260.1	1290.1	11.43	11.36	11.30
1320.1	1350.1	11.08	11.02	11.02
1380.1	1410.1	10.89	10.80	10.85
1440.1	1470.1	10.91	10.85	10.90
1500.1	1530.1	11.21	11.32	11.37
1560.1	1590.1	11.92	12.04	12.13
1620.1	1650.1	13.07	13.31	13.42
1680.1	1710.1	13.68	14.15	14.36
1740.1	1770.1	14.23	14.78	15.20
1800.1	1830.1	14.92	15.61	16.03
1860.1	1890.1	15.27	15.81	16.20
1920.1	1950.1	15.18	15.39	15.50
1980.1	2010.1	14.67	14.83	14.91
2040.1	2070.1	16.12	16.30	16.44
2100.1	2130.1	17.69	17.94	18.10
2160.1	2190.1	19.64	19.77	19.89
2220.1	2250.1	20.87	21.05	21.18
2280.1	2310.1	21.81	22.09	22.13
2340.1	2370.1	22.51	22.94	23.04
2400.1	2430.1	22.96	23.66	23.91
2460.1	2490.1	23.00	23.82	24.25
2520.1	2550.1	22.22	22.90	23.26
2580.1	2610.1	21.18	21.79	22.03
2660.1	2690.1	19.34	19.72	19.98
2720.1	2750.1	18.09	18.41	18.54
2800.1	2830.1	16.39	16.73	16.84
2860.1	2890.1	15.23	15.61	15.76
2940.1	2970.1	14.10	14.48	14.67
3000.1	3030.1	13.61	13.98	14.14

# Frequency Mixer

# LRMS-20J+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2000.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
600.1	630.1	13.39	12.35	11.69	630.1	3.26	2.13	1.76	10.0	1.06	1.08	1.17
660.1	690.1	10.37	10.02	9.79	690.1	2.98	1.99	1.72	30.2	1.06	1.11	1.20
720.1	750.1	8.01	7.73	7.70	750.1	2.82	1.92	1.72	50.4	1.12	1.15	1.22
780.1	810.1	6.07	6.01	6.09	810.1	2.68	1.86	1.73	70.6	1.14	1.19	1.26
840.1	870.1	4.67	4.57	4.55	870.1	2.50	1.78	1.73	90.8	1.22	1.24	1.29
900.1	930.1	3.56	3.45	3.41	930.1	2.41	1.74	1.73	111.0	1.24	1.28	1.33
960.1	990.1	3.05	3.10	3.10	990.1	2.31	1.71	1.73	131.2	1.30	1.34	1.38
1020.1	1050.1	2.36	2.31	2.28	1050.1	2.25	1.72	1.78	151.4	1.39	1.44	1.47
1080.1	1110.1	1.95	1.90	1.88	1110.1	2.19	1.74	1.83	171.6	1.41	1.44	1.46
1140.1	1170.1	1.52	1.49	1.49	1170.1	2.18	1.78	1.89	191.8	1.51	1.55	1.57
1200.1	1230.1	1.25	1.27	1.32	1230.1	2.08	1.78	1.94	212.0	1.52	1.54	1.56
1260.1	1290.1	1.24	1.27	1.31	1290.1	2.04	1.79	1.97	232.2	1.63	1.66	1.68
1320.1	1350.1	1.45	1.50	1.51	1350.1	1.96	1.78	2.00	252.4	1.66	1.68	1.69
1380.1	1410.1	1.59	1.68	1.68	1410.1	1.91	1.76	2.00	272.7	1.71	1.73	1.74
1440.1	1470.1	1.78	1.90	1.95	1470.1	1.91	1.77	2.02	292.9	1.76	1.78	1.78
1500.1	1530.1	2.03	2.13	2.15	1530.1	1.84	1.75	2.05	313.1	1.79	1.79	1.79
1560.1	1590.1	2.24	2.35	2.40	1590.1	1.77	1.71	2.04	333.3	1.89	1.91	1.91
1620.1	1650.1	2.16	2.29	2.37	1650.1	1.68	1.65	2.03	353.5	1.89	1.88	1.87
1680.1	1710.1	2.07	2.16	2.24	1710.1	1.54	1.59	2.03	373.7	1.92	1.91	1.90
1740.1	1770.1	2.04	2.06	2.10	1770.1	1.41	1.51	1.99	393.9	1.89	1.88	1.86
1800.1	1830.1	1.95	1.90	1.90	1830.1	1.27	1.48	2.02	434.3	1.96	1.95	1.93
1860.1	1890.1	1.86	1.72	1.65	1890.1	1.15	1.46	2.00	454.5	1.98	1.96	1.92
1920.1	1950.1	1.85	1.71	1.61	1950.1	1.06	1.46	2.03	494.9	1.94	1.91	1.88
1980.1	2010.1	2.74	2.61	2.50	2010.1	1.04	1.48	2.06	515.1	1.97	1.94	1.91
2040.1	2070.1	3.15	2.96	2.78	2070.1	1.13	1.48	2.03	555.5	1.88	1.84	1.81
2100.1	2130.1	2.81	2.60	2.44	2130.1	1.21	1.53	2.09	575.7	1.77	1.73	1.70
2160.1	2190.1	2.40	2.26	2.15	2190.1	1.27	1.50	2.02	616.1	1.73	1.70	1.68
2220.1	2250.1	2.22	2.08	1.98	2250.1	1.38	1.53	2.03	636.3	1.71	1.68	1.65
2280.1	2310.1	1.95	1.82	1.74	2310.1	1.54	1.59	2.05	676.7	1.60	1.59	1.59
2340.1	2370.1	1.63	1.52	1.45	2370.1	1.66	1.62	2.00	696.9	1.61	1.60	1.62
2400.1	2430.1	1.38	1.28	1.23	2430.1	1.80	1.69	2.05	737.3	1.57	1.59	1.63
2460.1	2490.1	1.30	1.28	1.28	2490.1	1.98	1.75	2.03	757.6	1.52	1.56	1.62
2520.1	2550.1	1.50	1.54	1.57	2550.1	2.11	1.83	2.04	798.0	1.62	1.69	1.76
2580.1	2610.1	1.84	1.94	1.98	2610.1	2.32	1.91	2.06	818.2	1.71	1.78	1.87
2660.1	2690.1	2.47	2.61	2.68	2690.1	2.57	1.99	2.01	858.6	1.92	2.01	2.12
2720.1	2750.1	3.11	3.23	3.27	2750.1	2.80	2.10	2.04	878.8	2.04	2.14	2.26
2800.1	2830.1	4.01	4.12	4.17	2830.1	3.25	2.30	2.10	919.2	2.39	2.51	2.63
2860.1	2890.1	4.61	4.75	4.80	2890.1	3.76	2.49	2.13	939.4	2.54	2.66	2.79
2940.1	2970.1	5.23	5.36	5.39	2970.1	4.16	2.69	2.18	979.8	2.94	3.07	3.20
3000.1	3030.1	5.46	5.58	5.59	3030.1	4.30	2.78	2.21	1000.0	3.27	3.38	3.50

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	+11	1	+0	14	6	14	26	32	18	30
1	-	9	+0	31	32	32	22	23	35	38	43	38
2	>90	>64	>64	60	>64	63	51	>64	54	60	>64	>64
3	>90	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
4	>90	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
5	>90	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
6	>90	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
7	>90	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
8	>90	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
9	>90	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
10	>90	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64	>64
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1750 MHz; -14.00 dBm.  
 LO IN: 1780 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -26.36 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	1	13	12	26	18	26	38	47	31	42
1	-	9	+0	31	32	32	22	23	37	38	45	39
2	76	61	64	49	55	52	40	68	44	51	56	60
3	>90	73	>75	74	62	71	74	70	60	59	59	68
4	>90	>75	>75	>75	>75	>75	>75	>75	72	>75	71	>75
5	>90	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
6	>90	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
7	>90	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
8	>90	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
9	>90	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
10	>90	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1750 MHz; -4.00 dBm.  
 LO IN: 1780 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -14.83 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.