

Frequency Mixer

HJK-ED9778A

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=199MHz (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)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
1200.1	1001.1	12.10	9.90	8.44	1200.1	1001.1	11.59	15.50	19.00	1200.1	1001.1	-0.47	-0.02	0.11
1260.1	1061.1	12.17	10.36	9.36	1260.1	1061.1	13.36	16.68	22.64	1260.1	1061.1	0.50	0.61	0.39
1320.1	1121.1	11.81	9.95	8.66	1320.1	1121.1	14.22	21.27	24.40	1320.1	1121.1	-0.07	0.11	0.27
1380.1	1181.1	11.19	9.24	8.01	1380.1	1181.1	14.67	21.39	28.00	1380.1	1181.1	0.33	0.32	0.22
1440.1	1241.1	11.07	9.11	7.95	1440.1	1241.1	15.17	20.94	28.04	1440.1	1241.1	0.99	0.81	0.50
1500.1	1301.1	11.00	9.05	7.91	1500.1	1301.1	16.60	17.76	21.05	1500.1	1301.1	1.00	1.24	1.12
1560.1	1361.1	10.20	8.47	7.54	1560.1	1361.1	17.83	19.16	22.23	1560.1	1361.1	0.25	0.87	0.75
1620.1	1421.1	9.94	8.38	7.52	1620.1	1421.1	19.66	23.36	27.06	1620.1	1421.1	0.24	0.61	0.43
1680.1	1481.1	9.46	8.36	7.88	1680.1	1481.1	21.82	19.80	21.97	1680.1	1481.1	0.45	0.43	0.16
1740.1	1541.1	9.03	8.02	7.62	1740.1	1541.1	19.62	20.87	26.53	1740.1	1541.1	0.49	0.64	0.38
1800.1	1601.1	8.59	7.68	7.31	1800.1	1601.1	17.81	21.38	27.75	1800.1	1601.1	0.59	0.59	0.30
1860.1	1661.1	7.98	7.38	7.14	1860.1	1661.1	18.55	22.61	28.89	1860.1	1661.1	0.61	0.44	0.21
1920.1	1721.1	7.62	7.22	7.06	1920.1	1721.1	18.66	23.02	29.96	1920.1	1721.1	0.60	0.32	0.17
1980.1	1781.1	7.58	7.23	7.08	1980.1	1781.1	18.78	22.67	30.38	1980.1	1781.1	0.51	0.24	0.12
2040.1	1841.1	7.44	7.22	7.18	2040.1	1841.1	19.06	22.24	29.03	2040.1	1841.1	0.56	0.21	0.07
2100.1	1901.1	7.44	7.21	7.15	2100.1	1901.1	19.03	22.07	28.00	2100.1	1901.1	0.63	0.26	0.10
2160.1	1961.1	7.62	7.30	7.23	2160.1	1961.1	19.46	21.78	24.98	2160.1	1961.1	0.73	0.38	0.12
2220.1	2021.1	7.65	7.26	7.20	2220.1	2021.1	18.30	21.12	24.05	2220.1	2021.1	0.98	0.67	0.24
2280.1	2081.1	7.90	7.33	7.12	2280.1	2081.1	18.08	21.09	23.61	2280.1	2081.1	0.86	0.66	0.30
2340.1	2141.1	8.14	7.43	7.17	2340.1	2141.1	17.03	20.18	22.68	2340.1	2141.1	0.93	0.78	0.45
2400.1	2201.1	8.35	7.49	7.16	2400.1	2201.1	17.72	20.28	23.60	2400.1	2201.1	0.97	0.81	0.51
2460.1	2261.1	8.58	7.57	7.17	2460.1	2261.1	18.67	20.92	23.45	2460.1	2261.1	0.87	0.76	0.48
2520.1	2321.1	9.19	7.93	7.36	2520.1	2321.1	17.14	18.24	20.41	2520.1	2321.1	0.87	0.76	0.55
2580.1	2381.1	9.26	8.02	7.43	2580.1	2381.1	16.92	18.07	20.22	2580.1	2381.1	0.99	0.80	0.54
2640.1	2441.1	9.55	8.23	7.55	2640.1	2441.1	16.29	17.73	19.98	2640.1	2441.1	0.94	0.77	0.53
2700.1	2501.1	9.89	8.45	7.68	2700.1	2501.1	15.80	17.72	19.13	2700.1	2501.1	1.11	0.86	0.56
2760.1	2561.1	9.72	8.37	7.69	2760.1	2561.1	16.89	17.74	19.57	2760.1	2561.1	1.24	0.89	0.53
2820.1	2621.1	10.08	8.67	7.90	2820.1	2621.1	16.69	18.12	20.37	2820.1	2621.1	1.68	1.11	0.65
2880.1	2681.1	10.19	8.88	8.18	2880.1	2681.1	16.67	18.05	20.36	2880.1	2681.1	2.71	1.63	0.82
2940.1	2741.1	10.20	9.03	8.46	2940.1	2741.1	16.04	17.85	21.16	2940.1	2741.1	2.63	1.66	0.79
3000.1	2801.1	10.49	9.29	8.69	3000.1	2801.1	16.12	17.83	20.11	3000.1	2801.1	1.29	1.07	0.69
3060.1	2861.1	9.91	8.86	8.40	3060.1	2861.1	18.57	20.46	23.20	3060.1	2861.1	0.78	0.69	0.42
3120.1	2921.1	9.90	9.19	9.03	3120.1	2921.1	20.95	22.92	26.48	3120.1	2921.1	0.74	0.58	0.41
3180.1	2981.1	9.96	9.42	9.30	3180.1	2981.1	21.18	21.89	24.31	3180.1	2981.1	0.80	0.66	0.49
3260.1	3061.1	9.45	8.60	8.19	3260.1	3061.1	21.77	21.69	25.08	3260.1	3061.1	0.51	0.50	0.42
3320.1	3121.1	9.44	8.55	8.12	3320.1	3121.1	19.41	21.43	25.68	3320.1	3121.1	0.39	0.48	0.36
3400.1	3201.1	9.70	8.70	8.13	3400.1	3201.1	17.09	20.87	24.85	3400.1	3201.1	0.30	0.34	0.23
3460.1	3261.1	9.98	8.80	8.13	3460.1	3261.1	16.67	22.71	29.81	3460.1	3261.1	0.33	0.32	0.25
3540.1	3341.1	11.48	9.73	8.57	3540.1	3341.1	12.43	17.15	20.26	3540.1	3341.1	-0.31	-0.02	0.25
3600.1	3401.1	12.86	10.77	9.36	3600.1	3401.1	10.54	14.07	17.55	3600.1	3401.1	-0.61	-0.26	0.01

Frequency Mixer

HJK-ED9778A

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1920MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1850.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1990.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
720.0	1200.0	10.46	10.0	1860.1	7.85	810.0	1180.1	10.70
686.2	1233.8	10.33	20.0	1870.1	7.50	790.0	1200.1	10.70
652.4	1267.6	9.74	30.0	1880.1	7.41	770.0	1220.1	10.57
618.6	1301.4	9.52	40.0	1890.1	7.26	750.0	1240.1	10.42
584.8	1335.2	9.27	50.0	1900.1	7.25	730.0	1260.1	10.15
551.0	1369.0	8.71	60.0	1910.1	7.24	710.0	1280.1	9.94
517.1	1402.9	8.64	70.0	1920.1	7.25	690.0	1300.1	9.80
483.3	1436.7	8.31	80.0	1930.1	7.24	670.0	1320.1	9.65
449.5	1470.5	8.13	90.0	1940.1	7.26	650.0	1340.1	9.32
415.7	1504.3	8.32	100.0	1950.1	7.26	630.0	1360.1	9.10
381.9	1538.1	7.91	110.0	1960.1	7.27	610.0	1380.1	8.99
348.1	1571.9	7.70	120.0	1970.1	7.24	590.0	1400.1	8.86
314.3	1605.7	7.52	130.0	1980.1	7.23	570.0	1420.1	8.74
280.5	1639.5	7.35	140.0	1990.1	7.23	550.0	1440.1	8.49
246.7	1673.3	7.32	150.0	2000.1	7.30	530.0	1460.1	8.37
212.9	1707.1	7.22	160.0	2010.1	7.33	510.0	1480.1	8.42
179.0	1741.0	7.20	170.0	2020.1	7.39	490.0	1500.1	8.47
145.2	1774.8	7.18	180.0	2030.1	7.42	470.0	1520.1	8.35
111.4	1808.6	7.18	190.0	2040.1	7.47	450.0	1540.1	8.03
77.6	1842.4	7.18	200.0	2050.1	7.48	430.0	1560.1	7.89
43.8	1876.2	7.23	210.0	2060.1	7.48	410.0	1580.1	7.75
10.0	1910.0	7.79	220.0	2070.1	7.47	390.0	1600.1	7.65
33.1	1953.1	7.46	230.0	2080.1	7.49	370.0	1620.1	7.50
79.3	1999.3	7.26	240.0	2090.1	7.55	350.0	1640.1	7.41
125.5	2045.5	7.37	250.0	2100.1	7.61	330.0	1660.1	7.36
171.7	2091.7	7.40	260.0	2110.1	7.68	310.0	1680.1	7.34
217.9	2137.9	7.68	270.0	2120.1	7.72	290.0	1700.1	7.28
287.1	2207.1	8.07	280.0	2130.1	7.77	270.0	1720.1	7.24
333.3	2253.3	8.21	290.0	2140.1	7.83	250.0	1740.1	7.23
402.6	2322.6	8.77	300.0	2150.1	7.86	230.0	1760.1	7.26
448.8	2368.8	8.84	320.0	2170.1	7.90	210.0	1780.1	7.25
518.1	2438.1	9.20	330.0	2180.1	7.98	190.0	1800.1	7.25
564.3	2484.3	9.45	350.0	2200.1	8.23	170.0	1820.1	7.23
633.6	2553.6	9.54	360.0	2210.1	8.36	150.0	1840.1	7.23
679.8	2599.8	10.10	380.0	2230.1	8.50	130.0	1860.1	7.23
749.0	2669.0	10.12	390.0	2240.1	8.46	110.0	1880.1	7.22
795.2	2715.2	10.29	410.0	2260.1	8.44	90.0	1900.1	7.22
864.5	2784.5	10.55	420.0	2270.1	8.56	70.0	1920.1	7.26
910.7	2830.7	10.37	440.0	2290.1	8.81	30.0	1960.1	7.44
980.0	2900.0	10.68	450.0	2300.1	8.87	10.0	1980.1	7.89

REV. X2

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
1001.1	45.47	46.33	46.66	32.66	33.00	33.51
1061.1	63.01	47.76	44.18	32.64	32.71	33.07
1121.1	35.56	35.89	36.74	32.67	32.81	33.00
1181.1	34.44	35.42	36.44	31.24	31.30	31.41
1241.1	33.65	34.64	35.50	30.55	30.57	30.54
1301.1	32.92	33.69	34.35	30.06	30.05	30.00
1361.1	32.33	32.89	33.49	29.87	29.86	29.72
1421.1	31.29	31.48	31.67	30.18	30.44	30.28
1481.1	30.10	29.81	29.63	33.29	38.47	45.37
1541.1	29.37	29.84	30.60	31.48	31.25	30.54
1601.1	28.48	28.66	28.98	27.33	27.15	26.86
1661.1	29.24	29.50	29.73	25.18	25.02	24.85
1721.1	31.93	32.23	32.51	25.04	25.09	25.10
1781.1	34.26	34.54	35.00	26.20	26.14	26.11
1841.1	35.75	36.41	37.09	27.49	27.38	27.25
1901.1	36.22	37.30	38.20	28.97	28.85	28.76
1961.1	36.67	38.53	39.74	30.93	30.69	30.41
2021.1	36.25	38.98	40.81	32.80	32.71	32.37
2081.1	35.66	38.20	39.93	34.81	34.59	34.30
2141.1	34.13	36.33	38.12	36.77	36.13	35.54
2201.1	32.39	34.04	35.71	37.16	36.07	34.84
2261.1	31.90	33.35	35.11	36.89	35.92	34.80
2321.1	31.13	32.23	33.80	37.08	36.59	36.13
2381.1	31.43	32.09	32.93	36.96	36.95	37.16
2441.1	31.02	31.45	32.15	35.52	35.82	36.64
2501.1	30.35	30.65	31.23	33.71	34.00	34.88
2561.1	29.51	29.93	30.52	31.83	32.35	33.27
2621.1	28.76	29.37	30.03	30.70	31.20	31.95
2681.1	27.78	28.44	29.13	29.35	29.84	30.60
2741.1	26.31	27.02	27.65	28.12	28.95	29.81
2801.1	24.71	25.10	25.63	26.86	27.74	28.84
2861.1	23.00	22.89	22.94	25.96	26.79	27.73
2921.1	20.76	20.46	20.37	25.63	27.06	28.57
2981.1	20.92	21.31	21.41	25.92	28.37	30.87
3061.1	23.95	24.78	24.83	25.43	27.51	29.49
3121.1	26.10	26.59	26.37	25.78	27.65	28.86
3201.1	28.72	29.23	29.15	26.59	27.45	27.61
3261.1	30.54	31.21	31.68	26.90	26.63	26.42
3341.1	35.27	37.15	38.03	32.27	33.50	34.63
3401.1	39.59	41.94	44.53	36.46	38.73	41.69

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
1200.1	1001.1	23.58	21.00	20.01
1260.1	1061.1	20.50	17.69	17.31
1320.1	1121.1	31.60	31.53	30.86
1380.1	1181.1	32.95	34.16	38.28
1440.1	1241.1	32.66	35.25	40.27
1500.1	1301.1	34.63	39.12	47.25
1560.1	1361.1	40.19	48.36	54.70
1620.1	1421.1	41.95	40.84	38.92
1680.1	1481.1	36.61	33.81	31.41
1740.1	1541.1	32.94	30.79	30.24
1800.1	1601.1	34.76	33.64	33.17
1860.1	1661.1	37.23	36.53	35.54
1920.1	1721.1	36.79	36.53	36.39
1980.1	1781.1	35.24	35.10	35.23
2040.1	1841.1	34.73	34.46	34.77
2100.1	1901.1	34.55	33.75	33.90
2160.1	1961.1	35.48	33.45	32.73
2220.1	2021.1	36.25	33.71	32.46
2280.1	2081.1	37.04	35.69	33.51
2340.1	2141.1	35.07	37.46	37.50
2400.1	2201.1	33.00	35.77	38.93
2460.1	2261.1	32.29	34.90	37.80
2520.1	2321.1	30.63	32.09	34.53
2580.1	2381.1	30.75	31.31	32.57
2640.1	2441.1	31.54	31.49	31.87
2700.1	2501.1	33.70	32.97	32.48
2760.1	2561.1	37.55	35.49	34.27
2820.1	2621.1	49.66	41.93	38.49
2880.1	2681.1	41.06	44.00	43.63
2940.1	2741.1	35.71	37.72	39.54
3000.1	2801.1	32.19	31.90	31.27
3060.1	2861.1	27.95	24.93	23.10
3120.1	2921.1	23.88	22.06	21.37
3180.1	2981.1	25.98	26.33	27.21
3260.1	3061.1	37.07	39.00	36.27
3320.1	3121.1	31.55	31.99	31.57
3400.1	3201.1	31.21	31.88	31.25
3460.1	3261.1	30.77	31.94	31.67
3540.1	3341.1	30.08	31.83	32.62
3600.1	3401.1	30.97	31.93	32.54

Frequency Mixer

HJK-ED9778A

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1791MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
1200.1	1001.1	4.96	3.76	2.98	1001.1	39.49	37.77	35.46	10.0	1.40	1.60	1.81
1260.1	1061.1	4.91	3.67	2.70	1061.1	31.03	28.49	26.74	50.0	1.15	1.39	1.61
1320.1	1121.1	4.18	3.18	2.67	1121.1	27.16	27.59	28.03	90.0	1.16	1.40	1.62
1380.1	1181.1	4.57	3.48	2.81	1181.1	29.96	29.96	28.96	130.0	1.17	1.37	1.57
1440.1	1241.1	4.56	3.47	2.80	1241.1	28.03	27.59	26.74	170.0	1.23	1.39	1.59
1500.1	1301.1	4.51	3.39	2.74	1301.1	25.56	24.48	23.49	210.0	1.26	1.38	1.56
1560.1	1361.1	4.12	3.16	2.60	1361.1	22.58	21.73	20.70	250.0	1.34	1.42	1.57
1620.1	1421.1	3.94	3.11	2.61	1421.1	18.70	17.39	16.26	290.0	1.40	1.44	1.58
1680.1	1481.1	3.35	2.69	2.18	1481.1	13.49	11.93	10.69	330.0	1.48	1.47	1.58
1740.1	1541.1	2.60	1.93	1.55	1541.1	12.18	11.61	11.09	370.0	1.57	1.53	1.61
1800.1	1601.1	2.33	1.79	1.46	1601.1	9.85	9.28	8.81	410.0	1.65	1.57	1.62
1860.1	1661.1	2.01	1.58	1.31	1661.1	7.66	7.20	6.83	450.0	1.76	1.65	1.67
1920.1	1721.1	1.77	1.43	1.22	1721.1	6.21	5.91	5.68	490.0	1.86	1.72	1.72
1980.1	1781.1	1.63	1.33	1.16	1781.1	5.41	5.23	5.12	530.0	2.00	1.81	1.76
2040.1	1841.1	1.52	1.27	1.14	1841.1	5.34	5.30	5.27	570.0	2.09	1.89	1.82
2100.1	1901.1	1.45	1.22	1.14	1901.1	6.03	6.05	6.05	610.0	2.20	1.95	1.85
2160.1	1961.1	1.50	1.24	1.13	1961.1	7.25	7.41	7.53	650.0	2.36	2.08	1.96
2220.1	2021.1	1.55	1.27	1.15	2021.1	8.99	9.13	9.23	690.0	2.44	2.13	1.97
2280.1	2081.1	1.58	1.27	1.15	2081.1	10.89	11.09	11.24	730.0	2.60	2.27	2.08
2340.1	2141.1	1.78	1.41	1.21	2141.1	12.44	12.44	12.44	790.0	2.62	2.27	2.08
2400.1	2201.1	1.86	1.47	1.24	2201.1	14.15	13.92	13.60	830.0	2.76	2.40	2.18
2460.1	2261.1	1.95	1.52	1.28	2261.1	15.13	14.74	14.50	890.0	2.78	2.40	2.17
2520.1	2321.1	2.16	1.67	1.39	2321.1	16.72	15.96	15.39	930.0	2.90	2.52	2.27
2580.1	2381.1	2.14	1.69	1.43	2381.1	16.72	15.96	15.39	990.0	3.01	2.62	2.36
2640.1	2441.1	2.26	1.78	1.52	2441.1	16.56	15.81	15.39	1030.0	3.12	2.72	2.46
2700.1	2501.1	2.37	1.88	1.61	2501.1	16.89	16.11	15.39	1090.0	3.10	2.71	2.43
2760.1	2561.1	2.33	1.88	1.67	2561.1	14.87	14.38	14.03	1130.0	3.13	2.74	2.47
2820.1	2621.1	2.35	1.94	1.75	2621.1	13.70	13.19	12.80	1190.0	3.23	2.86	2.59
2880.1	2681.1	2.37	2.01	1.86	2681.1	12.52	12.09	11.61	1230.0	3.22	2.87	2.62
2940.1	2741.1	2.25	1.98	1.93	2741.1	10.96	10.56	10.25	1290.0	3.34	3.01	2.77
3000.1	2801.1	2.23	2.01	1.97	2801.1	9.28	8.81	8.43	1330.0	3.24	2.94	2.71
3060.1	2861.1	2.12	1.96	1.98	2861.1	7.34	6.89	6.51	1390.0	3.17	2.91	2.72
3120.1	2921.1	2.06	1.91	1.95	2921.1	5.44	4.98	4.62	1430.0	3.01	2.78	2.62
3180.1	2981.1	2.08	1.88	1.91	2981.1	4.12	3.95	3.90	1490.0	2.93	2.75	2.62
3260.1	3061.1	2.19	2.01	1.99	3061.1	3.70	3.83	3.91	1530.0	2.76	2.60	2.49
3320.1	3121.1	2.29	2.06	1.99	3121.1	3.56	3.70	3.79	1590.0	2.63	2.52	2.46
3400.1	3201.1	2.56	2.22	2.05	3201.1	3.80	3.96	4.08	1630.0	2.40	2.28	2.24
3460.1	3261.1	2.83	2.39	2.14	3261.1	4.41	4.56	4.69	1690.0	2.12	1.99	1.96
3540.1	3341.1	3.40	2.73	2.33	3341.1	6.42	6.63	6.81	1730.0	2.00	1.83	1.77
3600.1	3401.1	4.11	3.22	2.64	3401.1	8.27	8.43	8.55	1790.0	1.86	1.63	1.52

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	27	29	21	32	47	40	39	45	61
1	-	29	+0	37	16	47	25	44	51	56	43	84
2	63	49	45	55	59	50	48	58	61	56	77	57
3	>100	73	55	79	51	77	53	76	59	63	79	67
4	>100	>91	87	>91	84	>91	77	>91	81	86	87	79
5	>100	>91	>91	>91	88	>91	85	>91	88	>91	89	>91
6	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
7	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
8	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
9	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
10	>100	>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: 1920.1 MHz; -2.00 dBm.
LO IN: 1721.1 MHz; +10.00 dBm
IF OUT: 199 MHz; -9.34 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	33	39	30	46	54	53	53	63	67
1	-	29	+0	40	18	54	28	48	59	54	51	62
2	43	40	36	44	48	43	44	53	55	52	72	51
3	71	56	36	58	33	58	37	61	44	52	71	63
4	100	72	62	62	62	72	57	61	62	63	75	57
5	>100	72	74	73	53	75	50	69	51	73	56	70
6	>100	83	84	78	74	75	72	94	66	72	69	77
7	>100	89	92	>101	83	88	69	92	68	78	66	83
8	>100	94	>101	85	98	82	80	89	78	84	72	84
9	>100	>101	95	>101	101	>101	>101	90	89	97	79	85
10	>100	>101	>101	>101	>101	>101	>101	90	91	>101	84	98
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1920.1 MHz; 8.00 dBm.
LO IN: 1721.1 MHz; +10.00 dBm
IF OUT: 199 MHz; 0.6 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.