

Frequency Mixer

HJK-ED10447/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=246MHz (dB)		
		@LO (dBm)		
		+10	+13	+16
610.1	856.1	12.99	11.65	10.59
670.1	916.1	12.91	11.30	10.14
730.1	976.1	12.36	10.67	9.64
790.1	1036.1	11.22	9.83	8.98
850.1	1096.1	10.47	9.32	8.58
910.1	1156.1	9.83	8.86	8.20
970.1	1216.1	9.31	8.57	8.11
1030.1	1276.1	9.17	9.04	9.13
1090.1	1336.1	9.21	9.05	8.67
1150.1	1396.1	8.65	8.18	7.66
1210.1	1456.1	8.62	8.19	7.88
1270.1	1516.1	8.71	8.26	7.99
1330.1	1576.1	8.37	7.99	7.69
1390.1	1636.1	8.21	7.87	7.62
1450.1	1696.1	8.09	7.86	7.67
1510.1	1756.1	7.88	7.81	7.65
1570.1	1816.1	7.95	7.95	7.87
1630.1	1876.1	7.73	7.83	7.81
1690.1	1936.1	7.59	7.76	7.72
1750.1	1996.1	7.59	7.81	7.84
1810.1	2056.1	7.49	7.69	7.69
1870.1	2116.1	7.68	7.93	7.99
1930.1	2176.1	8.03	8.35	8.51
1990.1	2236.1	7.93	8.07	8.12
2050.1	2296.1	8.16	8.16	8.17
2110.1	2356.1	8.33	8.16	8.08
2170.1	2416.1	8.87	8.36	8.04
2230.1	2476.1	9.21	8.61	8.25
2290.1	2536.1	9.60	8.76	8.26
2350.1	2596.1	10.17	9.07	8.43
2390.1	2636.1	10.34	9.16	8.48
2450.1	2696.1	10.95	9.57	8.71
2490.1	2736.1	11.04	9.70	8.88
2550.1	2796.1	11.69	10.30	9.33
2590.1	2836.1	11.75	10.56	9.71
2650.1	2896.1	12.73	10.96	9.75
2690.1	2936.1	12.76	10.96	9.58
2750.1	2996.1	13.51	11.31	9.69
2790.1	3036.1	13.29	11.04	9.60
2850.1	3096.1	13.88	11.33	9.76

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+10	+13	+16
610.1	856.1	12.71	16.47	20.19
670.1	916.1	11.35	14.15	17.99
730.1	976.1	14.79	16.80	20.34
790.1	1036.1	18.35	19.35	22.61
850.1	1096.1	19.97	21.93	22.93
910.1	1156.1	19.30	24.28	23.51
970.1	1216.1	18.03	20.78	23.41
1030.1	1276.1	15.56	21.93	28.33
1090.1	1336.1	17.36	24.42	24.97
1150.1	1396.1	20.48	23.49	22.87
1210.1	1456.1	14.63	16.01	18.03
1270.1	1516.1	15.34	16.98	20.85
1330.1	1576.1	16.79	17.80	20.85
1390.1	1636.1	17.23	18.98	22.02
1450.1	1696.1	17.17	19.55	22.62
1510.1	1756.1	18.45	20.93	24.16
1570.1	1816.1	18.11	21.36	26.22
1630.1	1876.1	20.41	23.42	26.71
1690.1	1936.1	23.24	26.58	27.20
1750.1	1996.1	24.48	28.81	28.59
1810.1	2056.1	25.09	28.85	31.04
1870.1	2116.1	24.54	27.37	29.12
1930.1	2176.1	25.84	29.70	32.46
1990.1	2236.1	22.69	27.75	29.09
2050.1	2296.1	21.14	26.20	28.32
2110.1	2356.1	19.67	23.20	27.27
2170.1	2416.1	17.23	20.23	24.12
2230.1	2476.1	16.92	19.85	23.69
2290.1	2536.1	16.68	18.82	21.78
2350.1	2596.1	17.03	18.94	21.47
2390.1	2636.1	16.93	18.84	21.38
2450.1	2696.1	16.84	19.02	21.39
2490.1	2736.1	17.26	19.71	21.88
2550.1	2796.1	17.44	23.06	21.56
2590.1	2836.1	19.14	21.51	21.94
2650.1	2896.1	16.05	20.78	21.19
2690.1	2936.1	13.87	20.64	22.18
2750.1	2996.1	11.33	16.22	24.24
2790.1	3036.1	11.81	17.47	22.55
2850.1	3096.1	10.52	16.06	20.95

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+13dBm (dB)		
		@LO (dBm)		
		+10	+13	+16
610.1	856.1	0.78	0.56	0.63
670.1	916.1	2.36	2.48	2.14
730.1	976.1	0.34	1.23	1.32
790.1	1036.1	0.09	0.66	0.90
850.1	1096.1	0.35	0.51	0.86
910.1	1156.1	0.84	0.64	0.82
970.1	1216.1	1.47	0.94	0.73
1030.1	1276.1	1.94	1.00	0.34
1090.1	1336.1	2.31	1.19	0.86
1150.1	1396.1	3.19	1.93	1.35
1210.1	1456.1	3.82	2.28	1.42
1270.1	1516.1	2.58	1.94	1.21
1330.1	1576.1	1.75	1.40	1.00
1390.1	1636.1	1.55	1.14	0.79
1450.1	1696.1	1.47	1.04	0.63
1510.1	1756.1	1.22	0.72	0.40
1570.1	1816.1	1.13	0.79	0.31
1630.1	1876.1	0.91	0.54	0.12
1690.1	1936.1	0.68	0.36	0.04
1750.1	1996.1	0.59	0.28	-0.06
1810.1	2056.1	0.56	0.27	-0.10
1870.1	2116.1	0.57	0.31	-0.07
1930.1	2176.1	0.58	0.23	-0.21
1990.1	2236.1	0.87	0.38	-0.14
2050.1	2296.1	1.01	0.52	-0.10
2110.1	2356.1	1.25	0.82	0.03
2170.1	2416.1	1.21	1.13	0.32
2230.1	2476.1	0.93	0.98	0.23
2290.1	2536.1	0.69	0.93	0.35
2350.1	2596.1	0.47	0.82	0.40
2390.1	2636.1	0.47	0.79	0.36
2450.1	2696.1	0.27	0.61	0.33
2490.1	2736.1	0.25	0.54	0.20
2550.1	2796.1	0.19	0.42	0.12
2590.1	2836.1	0.30	0.50	0.16
2650.1	2896.1	0.26	0.67	0.39
2690.1	2936.1	0.17	0.60	0.40
2750.1	2996.1	-0.11	0.42	0.31
2790.1	3036.1	-0.13	0.45	0.32
2850.1	3096.1	-0.27	0.38	0.33

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1960.1MHz (dB)
		@LO (dBm)
		+13
590.0	1370.1	11.81
556.9	1403.2	11.61
523.7	1436.4	11.58
490.6	1469.5	11.02
457.4	1502.7	10.44
424.3	1535.8	9.91
391.1	1569.0	9.49
358.0	1602.1	9.29
324.9	1635.2	8.98
291.7	1668.4	8.63
258.6	1701.5	8.52
225.4	1734.7	8.32
192.3	1767.8	8.18
159.1	1801.0	8.11
126.0	1834.1	8.06
92.9	1867.2	7.96
59.7	1900.4	7.91
26.6	1933.5	7.91
10.0	1970.1	8.41
56.9	2017.0	7.80
103.7	2063.8	7.83
150.6	2110.7	7.95
197.4	2157.5	8.43
244.3	2204.4	8.37
291.1	2251.2	8.30
338.0	2298.1	8.32
384.9	2345.0	8.43
408.3	2368.4	8.51
455.1	2415.2	8.82
478.6	2438.7	8.87
525.4	2485.5	9.10
548.9	2509.0	9.38
595.7	2555.8	9.62
619.1	2579.2	9.74
666.0	2626.1	10.20
689.4	2649.5	10.20
736.3	2696.4	10.81
759.7	2719.8	10.93
806.6	2766.7	11.42
830.0	2790.1	11.97

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1930.1MHz (dB)
		@LO (dBm)
		+13
10.0	1940.1	8.49
30.0	1960.1	7.96
50.0	1980.1	7.83
70.0	2000.1	7.92
90.0	2020.1	7.78
110.0	2040.1	7.87
130.0	2060.1	7.86
150.0	2080.1	7.85
170.0	2100.1	7.92
190.0	2120.1	8.13
210.0	2140.1	8.36
230.0	2160.1	8.45
250.0	2180.1	8.49
270.0	2200.1	8.38
290.0	2220.1	8.38
310.0	2240.1	8.36
330.0	2260.1	8.32
360.0	2290.1	8.34
380.0	2310.1	8.39
410.0	2340.1	8.46
430.0	2360.1	8.48
460.0	2390.1	8.63
480.0	2410.1	8.86
510.0	2440.1	8.93
530.0	2460.1	8.98
560.0	2490.1	9.24
580.0	2510.1	9.42
610.0	2540.1	9.58
630.0	2560.1	9.61
660.0	2590.1	9.93
680.0	2610.1	10.06
710.0	2640.1	10.16
730.0	2660.1	10.19
760.0	2690.1	10.65
780.0	2710.1	10.91
810.0	2740.1	11.06
830.0	2760.1	11.29
860.0	2790.1	11.89
880.0	2810.1	12.28
910.0	2840.1	12.38

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1990.1MHz (dB)
		@LO (dBm)
		+13
630.0	1360.1	11.84
610.0	1380.1	11.73
590.0	1400.1	11.66
570.0	1420.1	11.75
550.0	1440.1	11.66
530.0	1460.1	11.34
510.0	1480.1	10.82
490.0	1500.1	10.52
470.0	1520.1	10.31
460.0	1530.1	10.15
440.0	1550.1	9.75
430.0	1560.1	9.59
410.0	1580.1	9.45
400.0	1590.1	9.36
380.0	1610.1	9.21
370.0	1620.1	9.17
350.0	1640.1	8.96
340.0	1650.1	8.80
320.0	1670.1	8.64
310.0	1680.1	8.61
290.0	1700.1	8.52
280.0	1710.1	8.48
260.0	1730.1	8.34
250.0	1740.1	8.25
230.0	1760.1	8.14
220.0	1770.1	8.18
200.0	1790.1	8.12
190.0	1800.1	8.08
170.0	1820.1	8.01
160.0	1830.1	7.96
140.0	1850.1	7.90
130.0	1860.1	7.90
110.0	1880.1	7.88
100.0	1890.1	7.86
80.0	1910.1	7.83
70.0	1920.1	7.85
50.0	1940.1	7.71
40.0	1950.1	7.79
20.0	1970.1	7.87
10.0	1980.1	8.22

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
856.1	39.25	39.42	40.23	40.49	40.64	40.62
916.1	38.71	38.96	39.65	38.46	38.63	38.70
976.1	38.63	39.04	39.80	37.20	37.32	37.36
1036.1	39.32	39.83	40.63	36.12	36.30	36.45
1096.1	40.45	40.68	41.18	35.41	35.66	35.84
1156.1	42.48	42.41	42.75	34.88	35.08	35.28
1216.1	43.84	42.62	42.66	34.58	34.82	35.13
1276.1	39.07	37.90	37.59	35.27	37.01	39.89
1336.1	34.74	34.58	35.13	37.93	39.70	38.87
1396.1	32.96	33.28	33.82	38.09	37.20	35.70
1456.1	32.63	32.35	32.58	36.41	35.36	34.45
1516.1	34.12	33.64	33.76	35.31	34.10	32.78
1576.1	34.47	33.67	33.46	34.50	32.98	31.52
1636.1	34.91	33.84	33.45	33.84	31.81	30.30
1696.1	34.91	33.56	32.78	33.21	30.70	28.92
1756.1	34.06	32.59	31.74	32.33	29.67	27.75
1816.1	33.79	32.25	31.21	32.12	29.22	27.14
1876.1	32.95	31.48	30.49	33.97	31.00	28.84
1936.1	33.47	32.63	32.42	40.18	38.24	36.12
1996.1	34.46	34.01	33.97	37.78	40.70	42.36
2056.1	33.86	33.58	33.70	30.84	31.58	31.78
2116.1	33.06	33.44	34.00	27.92	28.39	28.39
2176.1	38.82	40.24	41.56	28.90	29.62	29.89
2236.1	38.27	39.26	39.96	28.77	29.47	29.56
2296.1	37.11	37.96	38.37	28.81	29.23	28.90
2356.1	36.07	36.65	36.74	29.20	29.21	28.37
2416.1	35.47	35.97	35.52	29.49	29.02	27.59
2476.1	35.22	35.67	34.99	29.71	28.72	26.98
2536.1	34.24	34.95	33.74	29.59	28.43	26.44
2596.1	34.23	34.77	33.34	29.07	27.67	25.58
2636.1	34.46	34.86	32.88	28.48	27.26	25.03
2696.1	34.98	35.43	33.04	27.21	26.12	23.94
2736.1	36.03	36.62	33.33	26.14	25.21	23.19
2796.1	37.56	38.47	33.50	23.88	23.54	21.48
2836.1	36.22	36.25	31.33	22.71	22.66	20.78
2896.1	32.15	32.02	27.79	23.27	23.48	20.94
2936.1	31.49	31.47	27.70	25.15	25.09	21.24
2996.1	30.83	30.79	27.26	26.97	26.52	21.16
3036.1	31.06	30.92	27.74	27.49	26.72	21.18
3096.1	30.92	30.70	28.19	27.58	26.75	21.59

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
610.1	856.1	43.49	44.44	46.12
670.1	916.1	41.43	43.74	50.54
730.1	976.1	41.77	39.64	39.39
790.1	1036.1	48.90	44.87	40.23
850.1	1096.1	37.26	42.11	41.20
910.1	1156.1	30.27	31.66	33.99
970.1	1216.1	25.32	25.45	26.53
1030.1	1276.1	22.59	22.66	22.80
1090.1	1336.1	26.78	23.12	20.03
1150.1	1396.1	23.30	19.21	17.83
1210.1	1456.1	19.15	17.34	17.96
1270.1	1516.1	19.44	20.13	22.50
1330.1	1576.1	19.62	21.73	24.85
1390.1	1636.1	20.06	22.66	26.03
1450.1	1696.1	21.09	24.40	27.61
1510.1	1756.1	22.65	26.39	29.83
1570.1	1816.1	24.32	29.52	36.04
1630.1	1876.1	23.02	25.65	29.11
1690.1	1936.1	23.89	25.53	28.10
1750.1	1996.1	26.33	27.90	30.70
1810.1	2056.1	29.32	30.72	33.51
1870.1	2116.1	31.44	32.35	34.93
1930.1	2176.1	32.64	34.63	39.29
1990.1	2236.1	37.67	41.15	46.42
2050.1	2296.1	44.31	42.05	38.31
2110.1	2356.1	41.36	37.47	34.48
2170.1	2416.1	36.46	34.64	32.64
2230.1	2476.1	32.66	31.87	30.59
2290.1	2536.1	29.20	28.77	27.98
2350.1	2596.1	27.60	27.02	26.02
2390.1	2636.1	26.15	25.86	24.98
2450.1	2696.1	23.74	23.48	22.93
2490.1	2736.1	22.32	22.16	21.85
2550.1	2796.1	21.36	21.01	20.50
2590.1	2836.1	22.56	22.52	20.60
2650.1	2896.1	27.90	24.73	20.83
2690.1	2936.1	25.74	23.89	21.25
2750.1	2996.1	26.57	25.05	22.56
2790.1	3036.1	27.23	26.27	23.36
2850.1	3096.1	28.74	27.53	23.41

Frequency Mixer

HJK-ED10447/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2241MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
610.1	856.1	6.61	5.77	3.53	856.1	41.37	41.37	40.41	10.0	1.08	1.21	1.43
670.1	916.1	5.93	5.02	3.19	916.1	39.49	39.49	37.77	70.0	1.12	1.22	1.43
730.1	976.1	5.12	4.28	2.89	976.1	42.38	41.37	40.41	130.0	1.14	1.20	1.39
790.1	1036.1	4.21	3.58	2.61	1036.1	36.20	35.46	34.75	190.0	1.23	1.25	1.41
850.1	1096.1	3.35	2.92	2.27	1096.1	34.75	34.07	32.79	250.0	1.34	1.31	1.42
910.1	1156.1	2.80	2.46	2.03	1156.1	37.77	37.77	36.20	310.0	1.39	1.32	1.39
970.1	1216.1	2.33	2.03	1.74	1216.1	32.79	31.60	29.96	370.0	1.52	1.43	1.47
1030.1	1276.1	1.78	1.54	1.42	1276.1	29.46	27.59	25.94	430.0	1.64	1.49	1.47
1090.1	1336.1	1.41	1.37	1.34	1336.1	24.83	24.83	24.83	490.0	1.71	1.53	1.48
1150.1	1396.1	1.19	1.18	1.16	1396.1	23.49	24.14	23.81	550.0	1.84	1.63	1.56
1210.1	1456.1	1.09	1.12	1.16	1456.1	22.87	23.18	23.18	610.0	1.97	1.70	1.57
1270.1	1516.1	1.18	1.15	1.21	1516.1	20.45	21.20	20.95	670.0	2.01	1.74	1.60
1330.1	1576.1	1.23	1.23	1.24	1576.1	18.50	18.50	18.30	730.0	2.17	1.86	1.70
1390.1	1636.1	1.33	1.32	1.29	1636.1	17.05	17.05	16.89	790.0	2.25	1.89	1.74
1450.1	1696.1	1.44	1.42	1.34	1696.1	14.26	13.92	13.49	850.0	2.27	1.91	1.80
1510.1	1756.1	1.54	1.54	1.44	1756.1	11.46	11.03	10.62	910.0	2.39	2.01	1.91
1570.1	1816.1	1.56	1.60	1.48	1816.1	8.90	8.39	8.01	970.0	2.36	1.97	1.89
1630.1	1876.1	1.60	1.64	1.51	1876.1	6.58	6.15	5.77	1030.0	2.38	2.00	1.92
1690.1	1936.1	1.67	1.74	1.58	1936.1	5.20	4.92	4.69	1090.0	2.46	2.06	1.96
1750.1	1996.1	1.65	1.71	1.56	1996.1	4.07	3.92	3.81	1150.0	2.36	2.00	1.90
1810.1	2056.1	1.69	1.71	1.54	2056.1	3.49	3.42	3.38	1210.0	2.37	2.04	1.95
1870.1	2116.1	1.73	1.76	1.59	2116.1	3.45	3.42	3.41	1270.0	2.34	2.03	1.94
1930.1	2176.1	1.66	1.70	1.57	2176.1	4.91	4.98	5.06	1330.0	2.20	1.95	1.88
1990.1	2236.1	1.77	1.72	1.53	2236.1	6.83	6.94	6.97	1390.0	2.21	1.99	1.91
2050.1	2296.1	1.82	1.72	1.51	2296.1	9.23	9.38	9.38	1450.0	2.09	1.92	1.86
2110.1	2356.1	1.97	1.77	1.49	2356.1	11.24	11.38	11.31	1510.0	2.00	1.88	1.84
2170.1	2416.1	2.25	1.96	1.57	2416.1	12.80	12.80	12.35	1550.0	1.99	1.90	1.87
2230.1	2476.1	2.29	1.99	1.57	2476.1	15.00	15.13	14.74	1610.0	1.86	1.79	1.78
2290.1	2536.1	2.58	2.18	1.69	2536.1	16.26	16.26	15.39	1650.0	1.87	1.83	1.82
2350.1	2596.1	2.76	2.33	1.79	2596.1	16.56	16.41	15.26	1710.0	1.74	1.71	1.72
2390.1	2636.1	2.91	2.44	1.85	2636.1	17.39	17.22	15.96	1750.0	1.74	1.73	1.74
2450.1	2696.1	3.17	2.66	1.99	2696.1	17.05	16.72	15.13	1810.0	1.65	1.64	1.65
2490.1	2736.1	3.19	2.67	2.00	2736.1	17.57	17.22	15.81	1850.0	1.65	1.66	1.68
2550.1	2796.1	3.37	2.80	2.07	2796.1	15.13	14.74	13.19	1910.0	1.58	1.59	1.63
2590.1	2836.1	3.15	2.63	2.00	2836.1	14.26	13.92	12.89	1950.0	1.59	1.62	1.67
2650.1	2896.1	3.50	2.87	2.20	2896.1	13.92	13.70	12.26	2010.0	1.50	1.53	1.60
2690.1	2936.1	3.70	3.06	2.27	2936.1	16.41	16.26	14.26	2050.0	1.50	1.52	1.61
2750.1	2996.1	4.35	3.55	2.54	2996.1	17.22	16.72	13.19	2110.0	1.41	1.44	1.53
2790.1	3036.1	4.14	3.34	2.44	3036.1	18.90	18.70	14.26	2150.0	1.41	1.44	1.55
2850.1	3096.1	4.62	3.67	2.68	3096.1	17.39	16.89	12.61	2210.0	1.35	1.38	1.50

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	18	22	29	32	40	42	60	55	65
1	-	28	+0	32	17	40	38	46	50	43	63	75
2	68	74	54	59	50	68	72	58	63	61	77	>80
3	>90	68	59	78	54	77	58	>80	>80	78	68	>80
4	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>90	>80	>80	>80	>80	>80	>80	>80	>80	>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	>80	>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: 1960.1 MHz; -2.00 dBm.
LO IN: 2206.1 MHz; +13.00 dBm
IF OUT: 246 MHz; -9.89 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	27	33	43	42	60	64	65	70	71
1	-	28	+0	33	18	40	39	47	50	46	74	78
2	48	67	45	48	43	59	63	51	57	52	73	77
3	81	52	40	52	34	55	39	57	58	60	52	65
4	>90	70	70	66	60	76	62	65	69	64	66	67
5	>90	85	68	68	58	80	57	79	58	76	84	72
6	>90	77	81	>90	82	73	73	83	77	74	>90	82
7	>90	88	89	>90	84	83	73	76	75	82	74	>90
8	>90	>90	>90	86	>90	>90	85	>90	82	83	88	86
9	>90	>90	>90	>90	>90	>90	89	>90	82	85	84	88
10	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1960.1 MHz; 8.00 dBm.
LO IN: 2206.1 MHz; +13.00 dBm
IF OUT: 246 MHz; 0 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.

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