

Frequency Mixer

HJK-ED9494A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=82MHz (dB)		
		@LO (dBm)		
		+16	+17	+18
664.1	582.1	10.27	9.82	9.30
714.1	632.1	7.28	7.24	7.23
764.1	682.1	6.78	6.80	6.82
814.1	732.1	6.62	6.65	6.69
864.1	782.1	6.41	6.43	6.47
914.1	832.1	6.32	6.33	6.35
964.1	882.1	6.27	6.28	6.28
1014.1	932.1	6.19	6.18	6.19
1064.1	982.1	6.20	6.19	6.18
1114.1	1032.1	6.26	6.21	6.18
1164.1	1082.1	6.85	6.86	6.88
1214.1	1132.1	7.57	7.55	7.52
1264.1	1182.1	7.05	6.94	6.85
1314.1	1232.1	6.77	6.68	6.59
1364.1	1282.1	6.82	6.73	6.66
1414.1	1332.1	6.84	6.74	6.68
1464.1	1382.1	7.02	6.94	6.86
1514.1	1432.1	7.33	7.28	7.25
1564.1	1482.1	7.52	7.48	7.46
1614.1	1532.1	7.58	7.57	7.57
1664.1	1582.1	7.55	7.51	7.48
1709.1	1627.1	7.64	7.60	7.58
1759.1	1677.1	7.62	7.54	7.48
1804.1	1722.1	7.69	7.60	7.54
1854.1	1772.1	7.70	7.58	7.48
1899.1	1817.1	7.91	7.80	7.72
1949.1	1867.1	8.01	7.85	7.75
1994.1	1912.1	8.32	8.19	8.10
2044.1	1962.1	8.42	8.26	8.16
2089.1	2007.1	8.69	8.57	8.49
2139.1	2057.1	8.75	8.59	8.47
2184.1	2102.1	9.13	9.00	8.91
2234.1	2152.1	9.18	9.01	8.87
2279.1	2197.1	9.52	9.38	9.27
2329.1	2247.1	9.63	9.46	9.31
2374.1	2292.1	9.99	9.84	9.74
2424.1	2342.1	10.11	9.92	9.79
2469.1	2387.1	10.52	10.37	10.25
2519.1	2437.1	10.70	10.53	10.38
2564.1	2482.1	11.10	10.93	10.81

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+16	+17	+18
664.1	582.1	18.11	17.30	18.01
714.1	632.1	26.13	27.44	28.71
764.1	682.1	28.95	30.11	31.19
814.1	732.1	31.25	32.30	34.18
864.1	782.1	32.35	33.04	35.82
914.1	832.1	32.46	33.29	34.26
964.1	882.1	30.79	31.68	32.57
1014.1	932.1	29.95	30.38	30.65
1064.1	982.1	28.49	29.30	30.02
1114.1	1032.1	25.64	26.51	27.53
1164.1	1082.1	25.86	26.42	26.85
1214.1	1132.1	24.39	25.11	25.78
1264.1	1182.1	25.51	26.06	26.75
1314.1	1232.1	27.70	28.10	28.84
1364.1	1282.1	26.71	27.41	27.99
1414.1	1332.1	25.84	26.60	27.41
1464.1	1382.1	25.01	25.83	26.73
1514.1	1432.1	23.42	24.27	25.02
1564.1	1482.1	23.86	24.94	25.93
1614.1	1532.1	24.60	26.11	27.42
1664.1	1582.1	23.78	25.27	26.67
1709.1	1627.1	23.75	25.13	26.53
1759.1	1677.1	22.90	24.03	25.26
1804.1	1722.1	23.17	24.18	25.41
1854.1	1772.1	22.77	23.66	24.55
1899.1	1817.1	22.58	23.63	24.66
1949.1	1867.1	21.83	22.95	23.86
1994.1	1912.1	21.93	23.05	24.08
2044.1	1962.1	21.40	22.54	23.47
2089.1	2007.1	21.98	23.09	24.17
2139.1	2057.1	21.36	22.42	23.55
2184.1	2102.1	21.93	23.05	24.25
2234.1	2152.1	21.46	22.62	23.92
2279.1	2197.1	22.27	23.44	24.90
2329.1	2247.1	21.76	22.98	24.13
2374.1	2292.1	22.90	24.11	25.29
2424.1	2342.1	22.52	23.76	24.86
2469.1	2387.1	23.77	24.94	26.24
2519.1	2437.1	23.73	24.86	26.13
2564.1	2482.1	25.24	26.64	27.96

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=0dBm (dB)		
		@LO (dBm)		
		+16	+17	+18
664.1	582.1	0.13	0.20	0.22
714.1	632.1	0.02	0.01	0.00
764.1	682.1	0.01	0.01	0.00
814.1	732.1	0.00	0.00	0.00
864.1	782.1	0.00	0.00	0.00
914.1	832.1	0.00	0.00	0.00
964.1	882.1	0.00	0.00	0.00
1014.1	932.1	0.01	0.00	0.00
1064.1	982.1	0.01	0.01	0.01
1114.1	1032.1	0.02	0.02	0.01
1164.1	1082.1	0.01	0.01	0.01
1214.1	1132.1	0.03	0.02	0.01
1264.1	1182.1	0.02	0.02	0.02
1314.1	1232.1	0.01	0.01	0.01
1364.1	1282.1	0.01	0.01	0.01
1414.1	1332.1	0.01	0.01	0.02
1464.1	1382.1	0.02	0.02	0.02
1514.1	1432.1	0.04	0.03	0.03
1564.1	1482.1	0.04	0.03	0.02
1614.1	1532.1	0.03	0.02	0.02
1664.1	1582.1	0.04	0.03	0.02
1709.1	1627.1	0.04	0.03	0.02
1759.1	1677.1	0.04	0.04	0.03
1804.1	1722.1	0.04	0.03	0.03
1854.1	1772.1	0.02	0.02	0.02
1899.1	1817.1	0.01	0.01	0.01
1949.1	1867.1	-0.01	0.00	0.00
1994.1	1912.1	-0.01	0.00	0.00
2044.1	1962.1	-0.01	0.00	0.00
2089.1	2007.1	0.00	-0.01	0.00
2139.1	2057.1	-0.01	-0.01	0.00
2184.1	2102.1	0.00	0.00	0.00
2234.1	2152.1	0.00	0.00	0.00
2279.1	2197.1	0.00	0.00	0.00
2329.1	2247.1	0.00	-0.03	0.00
2374.1	2292.1	0.01	0.00	0.00
2424.1	2342.1	0.00	0.00	0.00
2469.1	2387.1	0.00	0.00	0.01
2519.1	2437.1	0.00	0.00	0.00
2564.1	2482.1	0.00	0.00	0.00

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=860MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=813.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=906.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
270.0	590.0	9.25	10.1	824.0	6.36	310.1	596.0	9.09
256.1	603.9	8.42	70.1	884.0	6.13	302.4	603.7	8.60
242.1	617.9	8.00	130.1	944.0	6.21	294.7	611.4	8.40
228.2	631.8	7.62	190.1	1004.0	6.35	287.0	619.1	8.09
214.3	645.7	7.44	250.1	1064.0	6.78	279.3	626.8	7.98
200.4	659.6	7.27	310.1	1124.0	7.63	271.6	634.5	7.82
186.4	673.6	7.06	370.1	1184.0	7.28	263.9	642.2	7.69
172.5	687.5	6.99	430.1	1244.0	7.34	256.3	649.8	7.47
158.6	701.4	6.90	490.1	1304.0	7.74	248.6	657.5	7.40
144.6	715.4	6.74	550.1	1364.0	8.07	240.9	665.2	7.33
130.7	729.3	6.75	610.1	1424.0	8.34	233.2	672.9	7.26
116.8	743.2	6.71	670.1	1484.0	8.67	225.5	680.6	7.22
102.9	757.1	6.54	730.1	1544.0	8.92	217.8	688.3	7.06
88.9	771.1	6.45	790.1	1604.0	9.36	210.1	696.0	7.02
75.0	785.0	6.40	850.1	1664.0	9.50	202.4	703.7	6.91
61.1	798.9	6.36	910.1	1724.0	9.54	194.7	711.4	7.02
47.1	812.9	6.28	970.1	1784.0	9.75	187.0	719.1	6.89
33.2	826.8	6.27	1030.1	1844.0	9.71	179.3	726.8	6.92
19.3	840.7	6.21	1090.1	1904.0	9.72	171.6	734.5	6.79
10.0	870.0	6.36	1150.1	1964.0	9.84	163.9	742.2	6.77
117.1	977.1	6.13	1190.1	2004.0	9.63	156.3	749.8	6.71
224.3	1084.3	7.03	1250.1	2064.0	9.65	148.6	757.5	6.63
331.4	1191.4	7.04	1290.1	2104.0	9.50	140.9	765.2	6.63
438.6	1298.6	7.46	1350.1	2164.0	9.50	133.2	772.9	6.54
545.7	1405.7	8.12	1390.1	2204.0	9.30	125.5	780.6	6.59
652.9	1512.9	8.62	1450.1	2264.0	9.25	117.8	788.3	6.47
760.0	1620.0	9.21	1490.1	2304.0	9.05	110.1	796.0	6.50
867.1	1727.1	9.47	1550.1	2364.0	9.03	102.4	803.7	6.38
974.3	1834.3	9.62	1590.1	2404.0	8.93	94.7	811.4	6.41
1081.4	1941.4	9.62	1650.1	2464.0	9.00	87.0	819.1	6.32
1188.6	2048.6	9.57	1690.1	2504.0	9.03	79.3	826.8	6.33
1295.7	2155.7	9.42	1750.1	2564.0	9.09	71.6	834.5	6.23
1367.1	2227.1	9.20	1790.1	2604.0	9.13	63.9	842.2	6.25
1474.3	2334.3	9.00	1850.1	2664.0	9.21	56.3	849.8	6.21
1545.7	2405.7	8.85	1890.1	2704.0	9.29	48.6	857.5	6.21
1652.9	2512.9	8.94	1950.1	2764.0	9.46	40.9	865.2	6.18
1724.3	2584.3	9.01	1990.1	2804.0	9.56	33.2	872.9	6.12
1831.4	2691.4	9.15	2050.1	2864.0	9.67	25.5	880.6	6.14
1902.9	2762.9	9.34	2090.1	2904.0	9.73	17.8	888.3	6.09
2010.0	2870.0	9.48	2150.1	2964.0	9.99	10.1	896.0	6.32

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+16	+17	+18	+16	+17	+18
582.1	41.95	42.02	41.95	44.73	45.70	46.43
632.1	41.33	41.42	41.38	45.98	46.64	47.13
682.1	40.43	40.62	40.70	44.62	44.97	45.17
732.1	39.81	40.08	40.20	45.13	44.90	44.62
782.1	39.00	39.38	39.57	44.30	43.98	43.70
832.1	36.69	37.01	37.34	42.24	42.07	42.14
882.1	34.14	34.26	34.47	40.13	40.04	40.01
932.1	35.72	36.02	36.38	40.82	40.78	40.82
982.1	36.79	37.19	37.56	42.36	42.36	42.31
1032.1	37.22	37.65	38.00	42.92	42.74	42.40
1082.1	39.77	40.72	41.75	39.46	38.92	38.49
1132.1	54.42	50.48	47.99	33.73	33.44	33.21
1182.1	44.52	43.66	42.97	34.25	34.30	34.37
1232.1	41.38	41.11	40.90	36.39	36.46	36.61
1282.1	40.09	39.59	39.39	39.11	39.07	39.22
1332.1	39.25	38.82	38.67	42.56	42.77	43.13
1382.1	38.58	38.33	37.87	43.36	43.88	44.26
1432.1	41.43	40.84	40.58	37.95	37.86	37.96
1482.1	45.48	44.93	44.68	36.65	36.42	36.33
1532.1	44.24	43.82	43.65	37.35	36.89	36.62
1582.1	42.99	42.63	42.48	39.02	38.17	37.63
1627.1	41.51	41.11	40.92	40.24	39.10	38.32
1677.1	40.05	39.58	39.30	43.34	41.61	40.36
1722.1	39.37	38.80	38.56	45.65	43.96	42.71
1772.1	38.89	38.35	38.05	45.05	45.98	46.23
1817.1	38.59	38.08	37.57	41.89	43.16	44.18
1867.1	39.11	38.55	38.42	38.63	39.50	40.32
1912.1	39.55	39.19	39.14	37.05	37.75	38.40
1962.1	40.09	39.85	39.92	35.20	35.75	36.32
2007.1	40.49	40.55	40.65	34.21	34.74	35.23
2057.1	41.12	41.21	41.36	32.93	33.35	33.75
2102.1	41.66	41.84	41.91	32.36	32.77	33.10
2152.1	42.40	42.62	42.72	31.66	32.00	32.26
2197.1	43.44	43.65	43.72	31.62	31.95	32.20
2247.1	44.39	44.74	44.95	31.23	31.63	31.86
2292.1	45.44	45.81	46.13	31.27	31.66	31.95
2342.1	45.59	45.97	46.42	31.06	31.35	31.71
2387.1	44.97	45.36	45.69	31.11	31.45	31.70
2437.1	42.96	43.31	43.50	30.92	31.23	31.44
2482.1	40.91	41.12	41.14	31.02	31.24	31.37

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+16	+17	+18
664.1	582.1	31.97	32.27	35.06
714.1	632.1	34.34	35.54	35.96
764.1	682.1	35.33	36.36	37.01
814.1	732.1	36.59	37.39	38.27
864.1	782.1	37.55	38.10	39.10
914.1	832.1	37.94	38.73	39.44
964.1	882.1	41.53	43.42	44.55
1014.1	932.1	54.31	48.67	46.20
1064.1	982.1	35.26	34.55	34.06
1114.1	1032.1	25.04	24.67	24.38
1164.1	1082.1	17.81	17.39	17.13
1214.1	1132.1	17.53	17.45	17.55
1264.1	1182.1	23.23	23.51	23.94
1314.1	1232.1	30.23	30.54	31.20
1364.1	1282.1	37.49	38.03	38.78
1414.1	1332.1	45.39	56.28	53.07
1464.1	1382.1	34.36	37.33	39.98
1514.1	1432.1	31.59	33.87	34.87
1564.1	1482.1	31.87	33.52	34.13
1614.1	1532.1	31.70	33.24	33.70
1664.1	1582.1	29.76	31.39	32.14
1709.1	1627.1	28.96	30.59	31.46
1759.1	1677.1	26.97	28.52	29.68
1804.1	1722.1	25.66	26.96	28.06
1854.1	1772.1	24.08	24.93	25.56
1899.1	1817.1	23.88	24.56	25.11
1949.1	1867.1	24.25	24.95	25.33
1994.1	1912.1	25.15	25.81	26.19
2044.1	1962.1	25.66	26.26	26.53
2089.1	2007.1	26.49	27.03	27.30
2139.1	2057.1	26.65	27.18	27.44
2184.1	2102.1	26.97	27.48	27.73
2234.1	2152.1	26.60	27.05	27.28
2279.1	2197.1	26.63	27.07	27.30
2329.1	2247.1	26.11	26.48	26.64
2374.1	2292.1	26.01	26.40	26.53
2424.1	2342.1	25.56	25.82	25.93
2469.1	2387.1	25.40	25.65	25.78
2519.1	2437.1	24.75	25.05	25.11
2564.1	2482.1	24.56	24.78	24.87

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=812MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+16	+17	+18		+16	+17	+18		+16	+17	+18
664.1	582.1	1.71	1.73	1.79	582.1	14.38	14.38	14.38	10.0	1.28	1.32	1.37
714.1	632.1	1.76	1.80	1.83	632.1	11.46	11.38	11.31	30.3	1.21	1.24	1.29
764.1	682.1	1.79	1.83	1.88	682.1	7.44	7.34	7.25	50.5	1.24	1.28	1.32
814.1	732.1	1.83	1.87	1.92	732.1	4.99	4.95	4.88	70.8	1.36	1.40	1.44
864.1	782.1	1.82	1.87	1.91	782.1	4.42	4.41	4.40	91.0	1.37	1.40	1.43
914.1	832.1	1.74	1.79	1.83	832.1	5.42	5.44	5.47	111.3	1.33	1.36	1.39
964.1	882.1	1.63	1.68	1.73	882.1	7.50	7.53	7.60	131.5	1.39	1.42	1.45
1014.1	932.1	1.57	1.63	1.68	932.1	10.31	10.37	10.43	151.8	1.53	1.55	1.58
1064.1	982.1	1.52	1.58	1.64	982.1	13.09	13.09	13.09	172.1	1.54	1.56	1.57
1114.1	1032.1	1.45	1.52	1.58	1032.1	15.81	15.81	15.81	192.3	1.52	1.54	1.56
1164.1	1082.1	1.42	1.49	1.54	1082.1	16.11	15.96	15.81	212.6	1.61	1.63	1.65
1214.1	1132.1	1.51	1.58	1.63	1132.1	17.05	17.05	17.22	232.8	1.74	1.75	1.76
1264.1	1182.1	1.45	1.52	1.56	1182.1	19.76	19.76	19.54	253.1	1.75	1.76	1.77
1314.1	1232.1	1.46	1.53	1.58	1232.1	22.58	22.87	22.87	273.3	1.80	1.81	1.83
1364.1	1282.1	1.49	1.58	1.63	1282.1	22.29	22.29	22.00	293.6	1.91	1.92	1.94
1414.1	1332.1	1.57	1.66	1.71	1332.1	23.49	23.49	23.49	313.8	1.96	1.96	1.96
1464.1	1382.1	1.64	1.72	1.80	1382.1	20.70	20.45	20.22	334.1	1.98	1.99	1.99
1514.1	1432.1	1.80	1.92	2.00	1432.1	20.70	20.45	20.45	354.4	2.11	2.12	2.13
1564.1	1482.1	1.91	2.03	2.13	1482.1	22.00	21.73	21.46	374.6	2.22	2.23	2.23
1614.1	1532.1	2.01	2.14	2.23	1532.1	23.18	22.87	22.87	394.9	2.16	2.16	2.16
1664.1	1582.1	2.02	2.15	2.24	1582.1	21.73	21.46	21.20	415.1	2.25	2.25	2.25
1709.1	1627.1	2.09	2.21	2.30	1627.1	21.73	21.46	21.20	435.4	2.44	2.44	2.45
1759.1	1677.1	2.11	2.21	2.30	1677.1	19.98	19.54	19.11	455.6	2.46	2.46	2.46
1804.1	1722.1	2.18	2.28	2.38	1722.1	19.98	19.76	19.54	475.9	2.40	2.40	2.41
1854.1	1772.1	2.27	2.36	2.44	1772.1	18.50	18.11	17.75	496.2	2.54	2.54	2.55
1899.1	1817.1	2.40	2.49	2.59	1817.1	18.70	18.50	18.11	516.4	2.69	2.70	2.70
1949.1	1867.1	2.57	2.67	2.74	1867.1	17.39	17.05	16.56	536.7	2.66	2.66	2.67
1994.1	1912.1	2.75	2.85	2.94	1912.1	17.75	17.57	17.39	556.9	2.63	2.64	2.66
2044.1	1962.1	2.94	3.03	3.10	1962.1	16.11	15.81	15.53	577.2	2.75	2.77	2.78
2089.1	2007.1	3.11	3.19	3.26	2007.1	16.41	16.26	16.11	597.4	2.82	2.83	2.85
2139.1	2057.1	3.30	3.37	3.43	2057.1	15.00	14.74	14.38	617.7	2.75	2.77	2.78
2184.1	2102.1	3.45	3.51	3.58	2102.1	15.13	15.13	15.00	637.9	2.75	2.78	2.80
2234.1	2152.1	3.63	3.68	3.74	2152.1	13.81	13.60	13.29	658.2	2.76	2.79	2.82
2279.1	2197.1	3.78	3.83	3.89	2197.1	13.92	13.81	13.70	678.5	2.69	2.72	2.76
2329.1	2247.1	3.95	3.98	4.01	2247.1	12.71	12.52	12.26	698.7	2.59	2.63	2.67
2374.1	2292.1	4.10	4.13	4.16	2292.1	12.80	12.71	12.61	719.0	2.53	2.57	2.62
2424.1	2342.1	4.33	4.35	4.37	2342.1	11.69	11.53	11.24	739.2	2.39	2.43	2.48
2469.1	2387.1	4.44	4.46	4.47	2387.1	11.77	11.69	11.61	759.5	2.21	2.24	2.28
2519.1	2437.1	4.61	4.62	4.63	2437.1	10.82	10.62	10.43	779.7	2.07	2.09	2.13
2564.1	2482.1	4.67	4.68	4.69	2482.1	10.89	10.82	10.75	800.0	1.91	1.92	1.94

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Harmonics Tables

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	21	19	32	24	26	38	27	44	39	48
1	-	29	+0	37	13	47	40	57	30	49	37	64
2	62	60	61	76	69	70	63	82	65	>84	68	74
3	>90	>84	77	80	76	>84	76	>84	>84	>84	>84	>84
4	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
RF CAL 0 1 2 3 4 5 6 7 8 9 10												

LO HARMONICS ORDER

Test conditions:

RF IN: 860 MHz; 0.00 dBm.
 LO IN: 778 MHz; +17.00 dBm
 IF OUT: 82 MHz; -6.42 dBm

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	31	29	42	34	37	48	37	51	50	57
1	-	30	+0	38	13	48	41	55	30	49	37	59
2	43	49	50	67	59	60	53	83	55	76	58	66
3	65	72	55	65	54	66	56	70	76	75	66	73
4	>90	92	92	>93	84	92	82	93	81	85	84	>93
5	>90	>93	>93	>93	93	>93	89	>93	89	93	>93	>93
6	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
7	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	93	>93
8	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
RF CAL 0 1 2 3 4 5 6 7 8 9 10												

LO HARMONICS ORDER

Test conditions:

RF IN: 860 MHz; 10.00 dBm.
 LO IN: 778 MHz; +17.00 dBm
 IF OUT: 82 MHz; 3.49 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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