

Frequency Mixer

HJK-ED11067A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)		
		@LO (dBm)		
		+10	+13	+16
540.1	610.1	11.31	10.49	9.90
580.1	650.1	8.36	8.36	8.46
620.1	690.1	7.73	7.82	7.96
660.1	730.1	7.58	7.68	7.83
700.1	770.1	7.30	7.37	7.49
740.1	810.1	7.29	7.36	7.47
780.1	850.1	7.10	7.13	7.21
820.1	890.1	7.14	7.14	7.20
860.1	930.1	7.17	7.15	7.20
900.1	970.1	7.23	7.14	7.13
940.1	1010.1	7.34	7.23	7.21
980.1	1050.1	7.50	7.32	7.27
1020.1	1090.1	7.75	7.52	7.45
1060.1	1130.1	8.13	7.94	7.92
1100.1	1170.1	8.64	8.53	8.53
1140.1	1210.1	8.79	8.52	8.35
1180.1	1250.1	8.61	8.20	8.00
1210.1	1280.1	8.45	8.00	7.79
1250.1	1320.1	8.46	8.00	7.81
1280.1	1350.1	8.47	8.01	7.81
1320.1	1390.1	8.55	7.95	7.69
1350.1	1420.1	8.69	8.08	7.81
1390.1	1460.1	8.92	8.28	7.99
1420.1	1490.1	9.31	8.55	8.26
1460.1	1530.1	9.57	8.85	8.58
1490.1	1560.1	9.63	8.86	8.54
1530.1	1600.1	10.04	9.16	8.80
1560.1	1630.1	10.11	9.26	8.90
1600.1	1670.1	10.26	9.32	8.92
1630.1	1700.1	10.53	9.57	9.17
1670.1	1740.1	10.49	9.59	9.18
1700.1	1770.1	10.68	9.70	9.29
1740.1	1810.1	10.93	9.97	9.57
1770.1	1840.1	10.75	9.82	9.47
1810.1	1880.1	11.13	10.10	9.74
1840.1	1910.1	11.10	10.16	9.83
1880.1	1950.1	11.09	10.07	9.74
1910.1	1980.1	11.47	10.39	10.03
1950.1	2020.1	11.19	10.25	9.90
1980.1	2050.1	11.37	10.34	9.96

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+10	+13	+16
540.1	610.1	18.89	20.09	21.75
580.1	650.1	21.49	26.42	31.33
620.1	690.1	24.86	28.81	33.99
660.1	730.1	26.06	29.83	35.29
700.1	770.1	26.37	29.87	34.64
740.1	810.1	25.30	28.62	33.61
780.1	850.1	24.93	27.66	31.76
820.1	890.1	23.88	26.06	29.78
860.1	930.1	23.31	25.66	28.73
900.1	970.1	21.93	26.06	27.25
940.1	1010.1	21.44	25.86	27.72
980.1	1050.1	20.92	23.95	28.46
1020.1	1090.1	19.92	22.28	25.48
1060.1	1130.1	20.44	24.69	29.32
1100.1	1170.1	25.36	25.24	27.03
1140.1	1210.1	23.15	22.57	25.01
1180.1	1250.1	20.26	21.42	24.92
1210.1	1280.1	18.98	20.89	23.54
1250.1	1320.1	17.78	20.59	23.25
1280.1	1350.1	17.75	21.05	23.74
1320.1	1390.1	17.12	20.88	23.99
1350.1	1420.1	17.14	20.84	24.07
1390.1	1460.1	17.33	20.86	23.02
1420.1	1490.1	16.71	20.28	22.24
1460.1	1530.1	16.83	20.64	22.99
1490.1	1560.1	16.48	20.04	23.46
1530.1	1600.1	15.64	18.63	22.88
1560.1	1630.1	15.82	18.71	22.99
1600.1	1670.1	15.73	18.24	21.65
1630.1	1700.1	15.96	18.45	21.56
1670.1	1740.1	16.39	18.99	22.23
1700.1	1770.1	16.31	18.91	21.88
1740.1	1810.1	16.75	19.59	22.70
1770.1	1840.1	16.83	20.03	23.29
1810.1	1880.1	16.62	19.85	23.25
1840.1	1910.1	16.96	20.35	23.87
1880.1	1950.1	16.66	19.92	23.47
1910.1	1980.1	16.78	20.05	23.91
1950.1	2020.1	17.19	20.78	25.02
1980.1	2050.1	16.98	20.46	24.51

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+13dBm (dB)		
		@LO (dBm)		
		+10	+13	+16
540.1	610.1	0.01	0.72	0.64
580.1	650.1	1.08	0.40	0.13
620.1	690.1	0.70	0.19	0.08
660.1	730.1	0.44	0.16	0.07
700.1	770.1	0.40	0.16	0.07
740.1	810.1	0.44	0.18	0.09
780.1	850.1	0.50	0.22	0.10
820.1	890.1	0.54	0.28	0.13
860.1	930.1	0.50	0.31	0.15
900.1	970.1	0.42	0.31	0.18
940.1	1010.1	0.40	0.31	0.19
980.1	1050.1	0.38	0.32	0.20
1020.1	1090.1	0.42	0.32	0.23
1060.1	1130.1	0.48	0.22	0.11
1100.1	1170.1	0.58	0.19	0.14
1140.1	1210.1	0.62	0.53	0.38
1180.1	1250.1	0.64	0.56	0.34
1210.1	1280.1	0.83	0.69	0.41
1250.1	1320.1	1.05	0.85	0.51
1280.1	1350.1	1.14	0.89	0.52
1320.1	1390.1	1.29	0.99	0.58
1350.1	1420.1	1.33	1.00	0.58
1390.1	1460.1	1.36	1.05	0.64
1420.1	1490.1	1.36	1.11	0.70
1460.1	1530.1	1.18	0.93	0.60
1490.1	1560.1	1.15	0.90	0.58
1530.1	1600.1	1.08	0.89	0.56
1560.1	1630.1	0.95	0.81	0.49
1600.1	1670.1	0.85	0.81	0.49
1630.1	1700.1	0.71	0.73	0.45
1670.1	1740.1	0.66	0.67	0.39
1700.1	1770.1	0.62	0.70	0.39
1740.1	1810.1	0.59	0.67	0.35
1770.1	1840.1	0.62	0.66	0.35
1810.1	1880.1	0.56	0.70	0.36
1840.1	1910.1	0.63	0.68	0.33
1880.1	1950.1	0.64	0.77	0.40
1910.1	1980.1	0.59	0.76	0.39
1950.1	2020.1	0.68	0.70	0.33
1980.1	2050.1	0.63	0.74	0.36

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant

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Frequency Mixer

HJK-ED11067A/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=800MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=589.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
190.0	610.0	11.38	10.1	600.0	12.20	370.1	640.0	10.93
181.8	618.2	10.17	20.1	610.0	10.50	360.1	650.0	10.58
173.6	626.4	9.51	40.1	630.0	8.63	350.1	660.0	10.18
165.5	634.5	9.18	50.1	640.0	8.46	340.1	670.0	9.89
157.3	642.7	8.87	70.1	660.0	8.12	330.1	680.0	9.71
149.1	650.9	8.57	80.1	670.0	8.01	320.1	690.0	9.51
140.9	659.1	8.48	100.1	690.0	7.86	310.1	700.0	9.28
132.7	667.3	8.28	110.1	700.0	7.83	300.1	710.0	9.13
124.5	675.5	8.23	130.1	720.0	7.78	290.1	720.0	8.98
116.4	683.6	8.07	140.1	730.0	7.74	280.1	730.0	8.81
108.2	691.8	7.88	160.1	750.0	7.87	270.1	740.0	8.72
100.0	700.0	7.79	170.1	760.0	7.82	260.1	750.0	8.58
91.8	708.2	7.71	190.1	780.0	7.91	250.1	760.0	8.42
83.6	716.4	7.74	200.1	790.0	7.94	240.1	770.0	8.31
75.5	724.5	7.60	220.1	810.0	8.01	230.1	780.0	8.24
67.3	732.7	7.59	230.1	820.0	8.06	220.1	790.0	8.10
59.1	740.9	7.62	250.1	840.0	8.12	210.1	800.0	7.90
50.9	749.1	7.48	260.1	850.0	8.20	200.1	810.0	7.87
42.7	757.3	7.51	280.1	870.0	8.27	190.1	820.0	7.77
30.5	769.5	7.42	290.1	880.0	8.36	180.1	830.0	7.64
22.3	777.7	7.34	310.1	900.0	8.45	170.1	840.0	7.55
10.0	790.0	7.40	320.1	910.0	8.49	160.1	850.0	7.53
46.4	846.4	7.13	340.1	930.0	8.58	150.1	860.0	7.41
155.5	955.5	7.40	350.1	940.0	8.62	140.1	870.0	7.35
228.2	1028.2	7.63	370.1	960.0	8.70	130.1	880.0	7.37
337.3	1137.3	8.59	380.1	970.0	8.70	120.1	890.0	7.37
410.0	1210.0	9.18	400.1	990.0	8.78	110.1	900.0	7.26
519.1	1319.1	9.03	410.1	1000.0	8.80	100.1	910.0	7.21
591.8	1391.8	9.09	430.1	1020.0	8.81	90.1	920.0	7.27
700.9	1500.9	9.43	440.1	1030.0	8.88	85.1	925.0	7.19
773.6	1573.6	9.63	460.1	1050.0	8.99	75.1	935.0	7.18
882.7	1682.7	9.52	470.1	1060.0	9.05	70.1	940.0	7.20
955.5	1755.5	9.47	490.1	1080.0	9.16	60.1	950.0	7.28
1064.5	1864.5	9.31	500.1	1090.0	9.27	55.1	955.0	7.28
1137.3	1937.3	9.26	520.1	1110.0	9.42	45.1	965.0	7.29
1246.4	2046.4	9.31	530.1	1120.0	9.58	40.1	970.0	7.26
1319.1	2119.1	9.28	550.1	1140.0	9.89	30.1	980.0	7.26
1428.2	2228.2	9.48	560.1	1150.0	10.05	25.1	985.0	7.28
1500.9	2300.9	9.61	580.1	1170.0	10.28	15.1	995.0	7.33
1610.0	2410.0	10.15	590.1	1180.0	10.32	10.1	1000.0	7.44

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Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
610.1	40.83	43.16	44.55	40.31	41.11	41.75
650.1	43.52	45.01	46.22	39.34	39.92	40.35
690.1	42.39	44.00	45.23	39.53	40.25	40.80
730.1	40.83	41.99	42.88	40.60	40.55	40.79
770.1	40.44	41.55	42.20	45.41	44.65	44.05
810.1	39.75	40.86	41.60	47.95	46.84	46.09
850.1	38.72	39.68	40.45	47.20	46.27	45.86
890.1	37.19	37.89	38.21	44.31	43.51	42.91
930.1	37.89	38.76	39.28	42.70	41.88	41.26
970.1	38.32	39.27	40.02	42.23	41.47	41.17
1010.1	39.53	40.70	41.55	41.60	41.13	40.93
1050.1	40.17	41.30	42.03	40.93	40.48	40.12
1090.1	40.94	41.93	42.66	40.24	39.73	39.50
1130.1	42.12	43.22	43.91	39.22	38.74	38.44
1170.1	43.33	44.56	44.92	37.84	37.25	36.80
1210.1	44.10	44.52	44.31	37.42	37.12	37.07
1250.1	42.77	42.44	42.04	38.37	38.70	38.83
1280.1	42.12	41.66	41.35	39.71	40.26	40.52
1320.1	41.60	41.30	41.17	41.69	42.59	43.15
1350.1	41.06	40.75	40.59	43.20	44.57	45.54
1390.1	40.59	39.98	39.69	45.08	48.09	51.43
1420.1	41.04	40.16	39.67	46.12	49.42	52.88
1460.1	43.32	42.34	41.76	42.99	42.13	41.83
1490.1	45.45	44.72	44.52	41.78	39.73	38.94
1530.1	45.71	45.40	45.61	41.76	39.44	38.41
1560.1	46.13	45.28	45.29	42.85	39.92	38.58
1600.1	46.69	45.07	44.56	46.40	42.06	40.16
1630.1	46.75	44.99	44.25	48.58	43.54	41.31
1670.1	47.24	44.94	43.83	56.03	47.42	44.17
1700.1	47.36	44.89	43.60	57.84	50.75	46.31
1740.1	47.21	44.77	43.26	51.28	54.15	50.10
1770.1	47.33	45.14	43.58	46.92	50.08	51.56
1810.1	47.04	45.05	43.79	43.71	45.18	46.51
1840.1	46.65	44.96	44.01	41.87	42.66	43.41
1880.1	46.53	45.24	44.61	39.79	40.04	40.36
1910.1	46.02	45.19	44.83	38.56	38.68	38.86
1950.1	45.61	44.99	44.96	37.33	37.37	37.61
1980.1	45.37	45.07	44.97	36.52	36.59	36.68
2020.1	44.95	44.85	44.80	35.76	36.00	36.15
2050.1	44.41	44.40	44.51	35.20	35.49	35.74

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
540.1	610.1	30.61	29.10	35.92
580.1	650.1	45.31	52.85	63.81
620.1	690.1	49.35	53.95	57.78
660.1	730.1	47.63	50.23	52.21
700.1	770.1	46.25	49.23	51.90
740.1	810.1	44.52	48.75	52.85
780.1	850.1	41.91	46.12	50.91
820.1	890.1	39.37	43.32	48.52
860.1	930.1	37.63	41.84	48.18
900.1	970.1	35.37	39.40	44.23
940.1	1010.1	32.58	35.45	38.04
980.1	1050.1	29.10	30.97	32.41
1020.1	1090.1	25.32	26.21	26.51
1060.1	1130.1	22.33	22.43	22.30
1100.1	1170.1	21.46	21.64	21.60
1140.1	1210.1	23.69	24.21	24.03
1180.1	1250.1	28.61	28.95	29.36
1210.1	1280.1	32.82	32.76	33.46
1250.1	1320.1	37.60	36.85	37.69
1280.1	1350.1	37.56	37.27	37.66
1320.1	1390.1	34.69	35.25	35.67
1350.1	1420.1	32.46	33.59	34.45
1390.1	1460.1	30.61	32.76	34.78
1420.1	1490.1	30.61	34.46	37.02
1460.1	1530.1	31.17	35.85	37.50
1490.1	1560.1	30.66	35.51	37.87
1530.1	1600.1	29.81	34.55	37.96
1560.1	1630.1	29.89	34.36	37.75
1600.1	1670.1	29.57	33.55	37.13
1630.1	1700.1	29.52	32.74	35.61
1670.1	1740.1	30.09	32.82	35.33
1700.1	1770.1	30.55	32.79	34.62
1740.1	1810.1	31.74	34.01	35.61
1770.1	1840.1	32.94	35.59	37.20
1810.1	1880.1	34.57	37.74	39.72
1840.1	1910.1	36.68	41.57	45.52
1880.1	1950.1	38.99	46.29	53.42
1910.1	1980.1	40.65	50.52	66.46
1950.1	2020.1	45.04	68.70	50.25
1980.1	2050.1	45.72	62.29	51.04

Frequency Mixer

HJK-ED11067A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
540.1	610.1	3.35	3.91	4.44	610.1	6.30	6.56	6.66	10.0	1.64	1.43	1.31
580.1	650.1	3.74	4.13	4.44	650.1	6.15	6.09	6.03	30.0	1.62	1.41	1.28
620.1	690.1	3.62	3.97	4.29	690.1	5.42	5.38	5.33	50.0	1.69	1.49	1.38
660.1	730.1	3.42	3.76	4.03	730.1	5.22	5.22	5.20	70.0	1.76	1.56	1.44
700.1	770.1	3.30	3.63	3.90	770.1	5.97	6.01	6.05	90.0	1.76	1.56	1.46
740.1	810.1	3.08	3.45	3.72	810.1	7.20	7.28	7.34	110.0	1.83	1.64	1.55
780.1	850.1	2.89	3.29	3.56	850.1	8.99	9.08	9.18	130.0	1.97	1.78	1.68
820.1	890.1	2.70	3.12	3.43	890.1	10.75	10.82	10.89	150.0	2.03	1.84	1.74
860.1	930.1	2.53	2.95	3.29	930.1	12.99	13.19	13.19	170.0	2.11	1.93	1.85
900.1	970.1	2.39	2.82	3.13	970.1	15.00	15.26	15.26	190.0	2.24	2.06	1.97
940.1	1010.1	2.29	2.68	2.99	1010.1	16.89	17.05	17.05	210.0	2.32	2.12	2.02
980.1	1050.1	2.25	2.62	2.93	1050.1	18.70	18.90	18.90	230.0	2.40	2.22	2.12
1020.1	1090.1	2.24	2.61	2.88	1090.1	19.32	19.32	19.11	250.0	2.60	2.41	2.32
1060.1	1130.1	2.28	2.65	2.92	1130.1	20.45	20.22	19.98	270.0	2.72	2.52	2.42
1100.1	1170.1	2.46	2.86	3.17	1170.1	19.76	19.32	18.90	290.0	2.73	2.52	2.42
1140.1	1210.1	2.55	2.93	3.18	1210.1	20.45	20.70	20.70	310.0	2.89	2.70	2.59
1180.1	1250.1	2.63	2.90	3.11	1250.1	21.46	22.00	22.00	330.0	3.10	2.89	2.78
1210.1	1280.1	2.61	2.85	3.05	1280.1	21.46	22.00	21.73	350.0	3.14	2.93	2.81
1250.1	1320.1	2.65	2.84	3.04	1320.1	22.87	23.49	23.49	370.0	3.20	3.00	2.89
1280.1	1350.1	2.74	2.91	3.09	1350.1	22.58	22.87	22.58	390.0	3.39	3.19	3.08
1320.1	1390.1	2.84	2.92	3.07	1390.1	21.73	21.73	21.20	430.0	3.54	3.34	3.22
1350.1	1420.1	2.97	3.01	3.13	1420.1	21.73	21.46	20.95	450.0	3.70	3.51	3.40
1390.1	1460.1	3.24	3.22	3.32	1460.1	19.98	19.54	18.70	490.0	3.83	3.62	3.50
1420.1	1490.1	3.43	3.34	3.42	1490.1	20.70	20.22	19.54	510.0	3.92	3.74	3.64
1460.1	1530.1	3.62	3.50	3.58	1530.1	21.46	21.20	20.95	550.0	4.07	3.90	3.79
1490.1	1560.1	3.79	3.62	3.65	1560.1	20.95	20.70	19.98	570.0	4.01	3.86	3.76
1530.1	1600.1	4.00	3.76	3.74	1600.1	21.20	20.70	20.45	610.0	4.16	4.06	4.00
1560.1	1630.1	4.13	3.89	3.86	1630.1	20.45	20.22	19.98	630.0	4.02	3.95	3.91
1600.1	1670.1	4.31	3.99	3.92	1670.1	19.76	19.32	18.50	670.0	4.01	3.98	3.98
1630.1	1700.1	4.41	4.09	4.01	1700.1	19.76	19.32	18.90	690.0	3.91	3.89	3.90
1670.1	1740.1	4.56	4.24	4.15	1740.1	18.90	18.50	17.93	730.0	3.79	3.80	3.85
1700.1	1770.1	4.66	4.28	4.17	1770.1	18.50	17.93	17.22	750.0	3.67	3.67	3.72
1740.1	1810.1	4.80	4.40	4.29	1810.1	18.11	17.75	17.39	790.0	3.45	3.46	3.52
1770.1	1840.1	4.88	4.45	4.34	1840.1	17.22	16.72	16.26	810.0	3.39	3.38	3.44
1810.1	1880.1	4.96	4.45	4.32	1880.1	16.89	16.41	15.96	850.0	3.09	3.05	3.09
1840.1	1910.1	5.02	4.54	4.40	1910.1	16.72	16.41	16.11	870.0	2.99	2.92	2.95
1880.1	1950.1	5.19	4.61	4.44	1950.1	15.67	15.26	14.74	910.0	2.78	2.66	2.64
1910.1	1980.1	5.23	4.63	4.44	1980.1	15.53	15.13	14.74	930.0	2.68	2.52	2.49
1950.1	2020.1	5.31	4.75	4.55	2020.1	15.13	14.74	14.50	970.0	2.46	2.25	2.17
1980.1	2050.1	5.41	4.79	4.55	2050.1	14.38	14.03	13.49	990.0	2.40	2.17	2.06

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	15	25	46	60	42	40	45	39	46
1	-	39	+0	41	17	53	23	54	32	58	39	56
2	65	66	70	60	76	65	68	>81	78	68	74	67
3	>90	78	60	79	63	79	71	>81	69	>81	76	>81
4	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
5	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 800 MHz; -2.00 dBm.
LO IN: 870 MHz; +13.00 dBm
IF OUT: 70 MHz; -9.13 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	34	25	35	49	70	49	52	51	53	51
1	-	37	+0	42	17	49	24	53	34	55	42	58
2	45	55	60	49	60	55	60	70	76	60	74	58
3	71	57	40	60	42	60	49	67	48	81	52	78
4	>90	74	81	76	82	74	79	76	79	87	88	79
5	>90	86	75	79	63	74	66	70	69	79	73	76
6	>90	>91	>91	89	>91	83	>91	84	90	>91	>91	86
7	>90	>91	>91	>91	78	90	77	91	76	85	82	>91
8	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	89	>91
10	>90	>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: 800 MHz; 8.00 dBm.
LO IN: 870 MHz; +13.00 dBm
IF OUT: 70 MHz; 0.82 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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