

Frequency Mixer

HJK-ED11348A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=88.5MHz (dB)		
		@LO (dBm)		
		+10	+13	+16
150.0	61.5	17.47	14.91	12.81
200.0	111.5	13.09	11.02	9.49
250.0	161.5	10.81	9.22	8.18
300.0	211.5	9.75	8.52	7.85
370.0	281.5	8.55	7.64	7.24
400.0	311.5	7.74	7.13	6.86
450.0	361.5	7.62	7.08	6.86
500.0	411.5	7.98	7.38	7.12
550.0	461.5	9.82	10.25	10.81
600.0	511.5	8.91	8.57	8.41
650.0	561.5	8.14	7.89	7.78
700.0	611.5	7.85	7.64	7.56
750.0	661.5	7.68	7.53	7.54
800.0	711.5	7.42	7.42	7.50
850.0	761.5	7.28	7.32	7.36
900.0	811.5	7.30	7.29	7.28
950.0	861.5	7.43	7.36	7.32
1000.0	911.5	7.56	7.45	7.43
1050.0	961.5	7.65	7.47	7.42
1100.0	1011.5	7.80	7.57	7.48
1150.0	1061.5	7.92	7.67	7.57
1200.0	1111.5	8.00	7.75	7.63
1250.0	1161.5	8.07	7.81	7.70
1300.0	1211.5	8.13	7.88	7.77
1350.0	1261.5	8.17	7.91	7.81
1400.0	1311.5	8.22	7.95	7.85
1440.0	1351.5	8.23	7.99	7.89
1490.0	1401.5	8.36	8.10	8.00
1530.0	1441.5	8.53	8.26	8.16
1580.0	1491.5	8.70	8.41	8.31
1620.0	1531.5	8.87	8.58	8.49
1670.0	1581.5	9.01	8.75	8.67
1710.0	1621.5	9.18	8.96	8.89
1760.0	1671.5	9.46	9.25	9.31
1800.0	1711.5	9.69	9.45	9.37
1850.0	1761.5	9.96	9.74	9.67
1890.0	1801.5	10.07	9.82	9.75
1940.0	1851.5	10.49	10.25	10.18
1980.0	1891.5	10.64	10.41	10.35
2030.0	1941.5	11.18	10.98	10.93

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+10	+13	+16
150.0	61.5	5.72	5.70	5.95
200.0	111.5	6.15	6.41	6.98
250.0	161.5	6.52	7.11	8.19
300.0	211.5	7.52	8.27	9.92
370.0	281.5	8.16	9.70	13.39
400.0	311.5	8.57	11.25	15.92
450.0	361.5	7.84	10.51	12.93
500.0	411.5	9.69	12.03	13.76
550.0	461.5	10.25	11.77	13.06
600.0	511.5	12.77	15.50	18.30
650.0	561.5	16.34	18.84	20.59
700.0	611.5	19.53	21.13	22.84
750.0	661.5	21.19	22.85	25.16
800.0	711.5	23.86	26.92	26.71
850.0	761.5	25.86	29.52	25.86
900.0	811.5	27.16	28.96	29.28
950.0	861.5	25.56	27.19	28.61
1000.0	911.5	24.31	26.12	27.91
1050.0	961.5	23.52	25.46	27.53
1100.0	1011.5	22.65	24.25	26.21
1150.0	1061.5	22.43	23.49	25.33
1200.0	1111.5	22.37	23.00	24.58
1250.0	1161.5	22.07	22.68	23.94
1300.0	1211.5	21.32	22.42	23.77
1350.0	1261.5	20.41	21.84	23.31
1400.0	1311.5	20.20	21.47	22.85
1440.0	1351.5	20.66	21.80	23.17
1490.0	1401.5	20.47	21.62	22.95
1530.0	1441.5	20.16	21.52	22.64
1580.0	1491.5	19.22	21.03	22.06
1620.0	1531.5	19.25	21.40	22.49
1670.0	1581.5	20.19	22.37	23.56
1710.0	1621.5	21.14	23.26	24.64
1760.0	1671.5	21.51	24.77	23.24
1800.0	1711.5	20.16	23.91	26.09
1850.0	1761.5	20.92	24.84	26.53
1890.0	1801.5	20.16	24.20	26.49
1940.0	1851.5	21.01	24.55	26.17
1980.0	1891.5	21.38	23.92	25.32
2030.0	1941.5	23.11	24.97	26.71

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+10	+13	+16
150.0	61.5	12.63	12.50	12.01
200.0	111.5	12.25	11.62	10.67
250.0	161.5	11.23	10.37	9.10
300.0	211.5	9.27	8.24	6.84
370.0	281.5	9.10	7.62	5.82
400.0	311.5	8.35	6.58	4.60
450.0	361.5	10.14	7.73	4.99
500.0	411.5	6.01	4.85	3.25
550.0	461.5	3.39	2.01	0.94
600.0	511.5	2.61	2.21	1.49
650.0	561.5	1.94	1.24	0.64
700.0	611.5	1.04	0.58	0.34
750.0	661.5	0.53	0.34	0.21
800.0	711.5	0.28	0.17	0.17
850.0	761.5	0.23	0.16	0.21
900.0	811.5	0.21	0.16	0.19
950.0	861.5	0.25	0.19	0.18
1000.0	911.5	0.29	0.21	0.15
1050.0	961.5	0.33	0.22	0.14
1100.0	1011.5	0.49	0.31	0.19
1150.0	1061.5	0.63	0.35	0.20
1200.0	1111.5	0.72	0.38	0.22
1250.0	1161.5	0.91	0.45	0.25
1300.0	1211.5	1.05	0.50	0.27
1350.0	1261.5	1.34	0.66	0.34
1400.0	1311.5	1.38	0.69	0.36
1440.0	1351.5	1.23	0.60	0.32
1490.0	1401.5	1.35	0.65	0.33
1530.0	1441.5	1.63	0.81	0.39
1580.0	1491.5	2.05	1.03	0.48
1620.0	1531.5	2.15	1.09	0.51
1670.0	1581.5	1.86	0.91	0.41
1710.0	1621.5	1.56	0.75	0.36
1760.0	1671.5	1.56	0.73	0.20
1800.0	1711.5	1.91	0.94	0.42
1850.0	1761.5	1.56	0.75	0.32
1890.0	1801.5	1.73	0.86	0.36
1940.0	1851.5	1.42	0.71	0.31
1980.0	1891.5	1.28	0.66	0.30
2030.0	1941.5	0.93	0.47	0.23

REV. X2

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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)=836.5MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=824MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=849MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
686.5	150.0	12.16	10.0	834.0	7.70	710.0	139.0	13.02
650.4	186.1	11.50	70.0	894.0	7.60	690.0	159.0	11.37
614.3	222.2	10.35	130.0	954.0	7.59	670.0	179.0	11.45
578.3	258.2	9.78	190.0	1014.0	7.52	650.0	199.0	10.87
542.2	294.3	9.53	250.0	1074.0	7.38	630.0	219.0	10.24
506.1	330.4	8.99	310.0	1134.0	7.39	610.0	239.0	10.29
470.0	366.5	8.54	370.0	1194.0	7.41	590.0	259.0	9.65
433.9	402.6	8.52	430.0	1254.0	7.70	570.0	279.0	9.46
397.9	438.6	8.11	490.0	1314.0	7.98	550.0	299.0	9.38
361.8	474.7	10.44	550.0	1374.0	8.27	530.0	319.0	8.99
325.7	510.8	8.81	610.0	1434.0	8.52	510.0	339.0	9.01
289.6	546.9	8.08	670.0	1494.0	8.68	490.0	359.0	8.75
253.5	583.0	7.71	730.0	1554.0	8.79	470.0	379.0	8.42
217.5	619.0	7.52	790.0	1614.0	8.77	450.0	399.0	8.40
181.4	655.1	7.38	850.0	1674.0	9.07	430.0	419.0	8.11
145.3	691.2	7.30	910.0	1734.0	9.28	410.0	439.0	8.23
109.2	727.3	7.41	970.0	1794.0	9.09	390.0	459.0	10.21
73.1	763.4	7.24	1030.0	1854.0	9.11	370.0	479.0	9.89
37.1	799.4	7.37	1090.0	1914.0	9.27	350.0	499.0	9.05
10.0	846.5	7.83	1150.0	1974.0	9.18	330.0	519.0	8.53
135.0	971.5	7.58	1210.0	2034.0	9.05	310.0	539.0	8.11
260.0	1096.5	7.41	1270.0	2094.0	8.99	290.0	559.0	7.97
385.0	1221.5	7.53	1330.0	2154.0	8.95	270.0	579.0	7.71
509.9	1346.4	8.00	1390.0	2214.0	8.92	250.0	599.0	7.65
634.9	1471.4	8.53	1450.0	2274.0	9.03	230.0	619.0	7.56
759.9	1596.4	8.87	1510.0	2334.0	9.03	220.0	629.0	7.40
884.9	1721.4	9.06	1570.0	2394.0	9.03	200.0	649.0	7.30
1009.9	1846.4	9.05	1630.0	2454.0	9.04	190.0	659.0	7.36
1134.9	1971.4	9.20	1690.0	2514.0	9.11	170.0	679.0	7.27
1259.9	2096.4	8.96	1750.0	2574.0	9.23	160.0	689.0	7.38
1384.9	2221.4	8.94	1810.0	2634.0	9.33	140.0	709.0	7.33
1478.6	2315.1	8.91	1870.0	2694.0	9.44	130.0	719.0	7.27
1603.6	2440.1	9.06	1930.0	2754.0	9.58	110.0	739.0	7.43
1697.3	2533.8	9.17	1990.0	2814.0	9.71	100.0	749.0	7.29
1822.3	2658.8	9.35	2050.0	2874.0	9.88	80.0	769.0	7.24
1916.0	2752.5	9.55	2110.0	2934.0	10.00	70.0	779.0	7.33
2041.0	2877.5	9.83	2150.0	2974.0	10.14	50.0	799.0	7.29
2134.8	2971.3	10.09	2210.0	3034.0	10.21	40.0	809.0	7.37
2259.8	3096.3	10.37	2250.0	3074.0	10.35	20.0	829.0	7.52
2353.5	3190.0	10.79	2310.0	3134.0	10.52	10.0	839.0	7.63

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
61.5	77.18	75.91	74.90	68.49	67.48	66.42
111.5	67.65	65.97	64.99	62.03	60.93	60.13
161.5	65.12	64.23	63.63	57.87	57.12	56.56
211.5	61.23	60.67	60.20	55.38	54.76	54.36
281.5	59.71	59.17	58.87	53.05	52.56	52.23
311.5	59.12	58.69	58.40	52.01	51.50	51.11
361.5	58.84	58.45	58.41	50.80	50.36	50.06
411.5	64.81	64.12	66.77	49.68	49.40	49.69
461.5	50.18	49.57	49.19	51.09	53.55	58.90
511.5	46.59	46.09	45.64	55.00	53.83	52.93
561.5	46.24	45.70	45.22	53.44	53.32	53.01
611.5	45.41	44.86	44.44	49.25	50.21	51.03
661.5	43.69	43.16	42.83	43.61	44.79	45.76
711.5	41.06	40.60	41.51	38.21	39.11	43.38
761.5	38.01	38.62	41.12	32.56	34.41	37.78
811.5	38.69	41.69	44.09	27.65	30.40	33.46
861.5	38.93	41.68	45.70	27.10	28.58	30.48
911.5	42.07	42.62	43.86	28.18	28.86	30.03
961.5	44.04	45.12	46.42	29.17	29.73	30.32
1011.5	43.78	44.57	45.48	29.77	30.22	30.69
1061.5	43.51	44.14	44.96	30.31	30.69	31.08
1111.5	43.32	43.95	44.55	30.78	31.15	31.48
1161.5	42.52	43.12	43.39	31.33	31.74	32.06
1211.5	41.54	41.91	42.04	31.81	32.24	32.64
1261.5	41.77	42.25	42.39	32.22	32.73	33.13
1311.5	42.76	43.45	43.79	32.36	32.89	33.29
1351.5	43.32	44.14	44.67	32.58	33.11	33.49
1401.5	43.42	44.29	44.78	32.58	33.14	33.49
1441.5	42.82	43.63	44.00	32.45	33.02	33.30
1491.5	42.37	43.01	43.28	32.40	32.91	33.21
1531.5	41.88	42.41	42.50	32.25	32.72	33.00
1581.5	42.08	42.65	42.84	32.09	32.50	32.73
1621.5	41.80	42.40	42.61	31.78	32.10	32.26
1671.5	41.93	42.57	42.62	31.48	31.69	31.90
1711.5	42.12	42.93	43.72	31.50	31.72	31.88
1761.5	43.06	43.85	44.55	31.83	32.08	32.26
1801.5	44.22	45.10	45.80	32.15	32.38	32.57
1851.5	46.18	46.78	46.93	32.53	32.69	32.88
1891.5	43.45	43.49	43.32	33.27	33.47	33.65
1941.5	41.41	41.60	41.63	34.08	34.28	34.34

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
150.0	207.6	29.34	31.51	33.27
200.0	257.6	33.74	37.55	42.63
250.0	307.6	36.49	37.31	34.07
300.0	357.6	44.58	67.71	48.96
370.0	427.6	40.02	41.96	41.84
400.0	457.6	31.69	29.16	25.39
450.0	507.6	34.78	32.83	30.89
500.0	557.6	35.70	34.77	34.05
550.0	607.6	37.35	36.52	39.17
600.0	657.6	38.41	39.63	45.56
650.0	707.6	42.73	45.91	37.03
700.0	757.6	43.86	39.18	35.78
750.0	807.6	40.31	37.97	36.94
800.0	857.6	43.16	40.22	38.38
850.0	907.6	42.15	41.59	40.92
900.0	957.6	39.14	40.42	41.21
950.0	1007.6	37.57	37.97	39.41
1000.0	1057.6	37.12	37.10	37.91
1050.0	1107.6	36.77	36.62	36.65
1100.0	1157.6	36.48	36.25	35.80
1150.0	1207.6	36.40	36.21	35.48
1200.0	1257.6	36.84	36.92	36.11
1250.0	1307.6	36.72	37.12	36.71
1300.0	1357.6	35.53	35.89	35.68
1350.0	1407.6	34.88	35.39	35.67
1400.0	1457.6	34.35	35.04	35.77
1440.0	1497.6	34.65	35.97	38.07
1490.0	1547.6	34.49	36.19	39.09
1530.0	1587.6	34.75	36.64	39.88
1580.0	1637.6	35.93	38.36	42.50
1620.0	1677.6	36.13	38.18	41.23
1670.0	1727.6	35.71	37.09	39.26
1710.0	1767.6	35.40	36.64	38.34
1760.0	1817.6	35.64	36.72	38.00
1800.0	1857.6	36.71	38.11	39.79
1850.0	1907.6	37.18	38.43	40.16
1890.0	1947.6	37.04	37.94	39.32
1940.0	1997.6	37.93	38.79	40.24
1980.0	2037.6	38.61	39.38	40.44
2030.0	2087.6	39.53	40.23	41.25

Frequency Mixer

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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=760.5MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
150.0	61.5	1.19	1.21	1.18	61.5	33.42	33.42	32.18	10.0	2.02	2.25	2.34
200.0	111.5	1.17	1.20	1.25	111.5	56.04	56.04	52.65	30.0	1.99	2.21	2.29
250.0	161.5	1.32	1.40	1.48	161.5	57.91	57.91	54.29	50.0	2.06	2.29	2.37
300.0	211.5	1.48	1.57	1.64	211.5	66.82	66.82	59.91	70.0	1.95	2.16	2.24
370.0	281.5	1.73	1.81	1.85	281.5	75.53	72.39	66.82	90.0	2.01	2.23	2.31
400.0	311.5	1.83	1.88	1.91	311.5	91.43	86.86	78.97	110.0	1.95	2.16	2.24
450.0	361.5	1.87	1.94	1.99	361.5	66.82	66.82	62.05	130.0	2.04	2.26	2.34
500.0	411.5	2.09	2.10	2.12	411.5	49.64	48.26	45.72	150.0	2.02	2.23	2.32
550.0	461.5	1.99	1.91	1.88	461.5	35.46	34.75	33.42	170.0	1.92	2.11	2.19
600.0	511.5	1.95	2.00	2.05	511.5	33.42	32.79	31.60	190.0	2.01	2.20	2.29
650.0	561.5	1.98	2.01	2.04	561.5	28.96	28.49	27.16	210.0	1.94	2.12	2.21
700.0	611.5	1.96	1.96	1.99	611.5	20.70	20.22	19.54	230.0	2.03	2.21	2.30
750.0	661.5	1.93	1.91	1.93	661.5	12.44	12.09	11.61	250.0	1.92	2.10	2.19
800.0	711.5	1.85	1.83	1.83	711.5	6.28	5.95	3.28	270.0	1.93	2.09	2.17
850.0	761.5	1.77	1.76	1.75	761.5	2.59	1.98	1.37	290.0	1.96	2.12	2.21
900.0	811.5	1.69	1.68	1.67	811.5	1.87	1.70	1.71	310.0	1.96	2.10	2.18
950.0	861.5	1.65	1.62	1.61	861.5	3.70	3.59	3.15	330.0	2.01	2.15	2.24
1000.0	911.5	1.66	1.57	1.54	911.5	6.63	6.97	6.05	350.0	1.90	2.02	2.09
1050.0	961.5	1.65	1.54	1.49	961.5	10.13	10.56	10.62	370.0	2.01	2.12	2.18
1100.0	1011.5	1.65	1.54	1.46	1011.5	13.39	13.60	13.39	390.0	1.98	2.08	2.15
1150.0	1061.5	1.63	1.52	1.44	1061.5	16.11	16.26	15.96	410.0	2.03	2.11	2.16
1200.0	1111.5	1.57	1.47	1.40	1111.5	18.11	17.93	17.39	430.0	2.01	2.09	2.15
1250.0	1161.5	1.49	1.39	1.33	1161.5	20.22	20.22	19.32	450.0	1.99	2.04	2.08
1300.0	1211.5	1.37	1.28	1.23	1211.5	22.29	21.73	20.22	470.0	2.10	2.15	2.18
1350.0	1261.5	1.27	1.19	1.15	1261.5	23.49	22.87	21.46	490.0	2.03	2.07	2.10
1400.0	1311.5	1.16	1.09	1.07	1311.5	22.87	22.00	20.22	510.0	2.15	2.17	2.19
1440.0	1351.5	1.06	1.05	1.09	1351.5	23.49	22.87	21.20	530.0	2.07	2.09	2.11
1490.0	1401.5	1.05	1.13	1.19	1401.5	23.49	22.29	19.54	550.0	2.14	2.13	2.13
1530.0	1441.5	1.12	1.21	1.27	1441.5	25.19	24.83	23.81	570.0	2.20	2.19	2.19
1580.0	1491.5	1.22	1.33	1.40	1491.5	23.49	22.58	20.45	590.0	2.18	2.15	2.13
1620.0	1531.5	1.32	1.42	1.50	1531.5	22.58	22.29	21.73	610.0	2.28	2.24	2.22
1670.0	1581.5	1.48	1.60	1.68	1581.5	19.98	18.90	16.89	630.0	2.20	2.15	2.12
1710.0	1621.5	1.62	1.75	1.84	1621.5	20.22	19.54	18.30	650.0	2.34	2.27	2.23
1760.0	1671.5	1.80	1.94	2.01	1671.5	19.54	18.30	15.67	660.0	2.35	2.28	2.24
1800.0	1711.5	1.92	2.06	2.16	1711.5	19.76	19.32	18.30	680.0	2.31	2.23	2.18
1850.0	1761.5	2.14	2.29	2.40	1761.5	18.30	17.57	16.11	690.0	2.39	2.29	2.24
1890.0	1801.5	2.29	2.44	2.55	1801.5	17.22	16.72	15.67	710.0	2.40	2.32	2.28
1940.0	1851.5	2.54	2.69	2.82	1851.5	16.11	15.67	14.74	720.0	2.34	2.25	2.21
1980.0	1891.5	2.80	2.98	3.11	1891.5	15.53	14.87	13.39	740.0	2.49	2.39	2.33
2030.0	1941.5	3.09	3.27	3.40	1941.5	15.81	15.39	14.38	750.0	2.58	2.49	2.44

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	24	24	27	30	36	37	44	41	48
1	-	32	+0	32	14	37	27	48	45	50	42	49
2	69	67	64	56	57	55	54	58	59	60	59	62
3	>90	68	65	69	70	76	>82	82	73	77	81	75
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 836.5 MHz; 0.00 dBm.
LO IN: 748 MHz; +13.00 dBm
IF OUT: 88.5 MHz; -7.82 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	33	35	39	45	42	48	46	48	54
1	-	31	+0	31	15	36	28	47	47	49	40	52
2	50	56	55	47	43	45	42	50	47	52	48	56
3	75	60	40	68	42	61	45	61	52	77	58	64
4	>90	66	74	70	70	67	65	66	63	68	66	68
5	>90	71	72	71	68	71	69	73	78	71	>92	74
6	>90	79	87	77	87	72	84	72	89	77	85	78
7	>90	78	78	75	78	76	84	74	81	74	84	76
8	>90	90	>92	83	89	83	91	80	85	81	84	80
9	>90	>92	87	87	86	84	89	87	91	84	91	83
10	>90	>92	>92	>92	>92	>92	>92	>92	>92	88	>92	89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 836.5 MHz; 10.00 dBm.
LO IN: 748 MHz; +13.00 dBm
IF OUT: 88.5 MHz; 2.12 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.