Frequency Mixer HJK-ED9347/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB) @LO (dBm)		
		+14	+17	+20
1150.1	1080.1	12.95	11.11	10.45
1185.1	1115.1	12.96	10.83	9.93
1220.1	1150.1	12.13	10.10	8.80
1255.1	1185.1	11.54	9.47	8.10
1290.1	1220.1	11.51	9.29	7.96
1325.1	1255.1	10.83	8.79	7.67
1360.1	1290.1	10.44	8.67	7.79
1395.1	1325.1	11.01	9.23	8.37
1430.1	1360.1	10.63	8.89	7.93
1465.1	1395.1	10.05	8.44	7.70
1505.1	1435.1	9.61	8.32	9.07
1540.1	1470.1	8.87	7.88	7.44
1580.1	1510.1	8.65	7.77	7.38
1615.1	1545.1	8.22	7.59	7.29
1655.1	1585.1	8.07	7.60	7.40
1690.1	1620.1	7.87	7.50	7.34
1730.1	1660.1	7.84	7.58	7.51
1765.1	1695.1	7.81	7.57	7.51
1805.1	1735.1	7.50	7.40	7.45
1840.1	1770.1	7.51	7.40	7.43
1880.1	1810.1	7.31	7.20	7.26
1915.1	1845.1	7.30	7.17	7.19
1955.1	1885.1	7.31	7.13	7.07
1990.1	1920.1	7.33	7.16	7.11
2030.1	1960.1	7.51	7.26	7.14
2065.1	1995.1	7.46	7.20	7.06
2105.1	2035.1	7.68	7.38	7.23
2140.1	2070.1	7.77	7.40	7.19
2180.1	2110.1	7.79	7.40	7.18
2215.1	2145.1	8.07	7.61	7.32
2255.1	2185.1	7.98	7.53	7.23
2290.1	2220.1	8.21	7.72	7.37
2330.1	2260.1	8.28	7.76	7.42
2365.1	2295.1	8.28	7.76	7.41
2405.1	2335.1	8.55	7.99	7.62
2440.1	2370.1	8.44	7.94	7.63
2480.1	2410.1	8.65	8.20	7.92
2515.1	2445.1	8.84	8.48	8.38
2555.1	2485.1	9.44	9.49	9.96
2590.1	2520.1	10.83	11.44	12.43

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+14	+17	+20
1150.1	1080.1	13.10	14.38	17.54
1185.1	1115.1	17.32	14.48	16.41
1220.1	1150.1	24.07	19.14	17.99
1255.1	1185.1	23.40	20.45	19.42
1290.1	1220.1	20.23	21.18	22.39
1325.1	1255.1	19.54	20.77	24.04
1360.1	1290.1	17.39	18.00	19.38
1395.1	1325.1	16.45	17.57	20.49
1430.1	1360.1	18.74	21.02	22.51
1465.1	1395.1	24.00	22.53	24.51
1505.1	1435.1	28.08	26.63	21.64
1540.1	1470.1	24.98	25.19	27.92
1580.1	1510.1	24.27	27.34	29.33
1615.1	1545.1	25.18	29.37	30.19
1655.1	1585.1	27.08	31.79	31.24
1690.1	1620.1	28.15	33.06	31.89
1730.1	1660.1	29.23	34.35	33.01
1765.1	1695.1	29.63	35.14	33.42
1805.1	1735.1	34.95	35.22	35.82
1840.1	1770.1	36.05	35.30	35.52
1880.1	1810.1	34.90	36.15	35.06
1915.1	1845.1	33.43	36.34	35.57
1955.1	1885.1	32.05	36.15	35.45
1990.1	1920.1	30.23	35.01	35.95
2030.1	1960.1	28.44	32.61	36.22
2065.1	1995.1	27.60	31.64	36.60
2105.1	2035.1	26.35	29.67	34.49
2140.1	2070.1	26.16	29.56	33.65
2180.1	2110.1	25.35	28.71	32.42
2215.1	2145.1	25.30	28.29	32.02
2255.1	2185.1	25.49	28.08	31.33
2290.1	2220.1	25.20	27.35	30.13
2330.1	2260.1	26.36	28.45	30.74
2365.1	2295.1	26.25	27.78	29.83
2405.1	2335.1	28.17	28.72	30.98
2440.1	2370.1	28.86	28.11	30.31
2480.1	2410.1	26.22	26.19	27.94
2515.1	2445.1	24.27	24.40	25.28
2555.1	2485.1	21.53	22.46	23.62
2590.1	2520.1	20.66	22.49	25.58

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB) @LO (dBm)		
		+14	+17	+20
1150.1	1080.1	3.10	6.35	5.39
1185.1	1115.1	0.31	2.64	3.12
1220.1	1150.1	0.15	1.46	2.03
1255.1	1185.1	0.29	1.34	1.72
1290.1	1220.1	0.06	1.25	1.41
1325.1	1255.1	0.49	1.33	1.18
1360.1	1290.1	0.60	1.21	1.19
1395.1	1325.1	-0.14	0.69	0.86
1430.1	1360.1	-0.25	0.59	0.89
1465.1	1395.1	-0.08	0.66	0.77
1505.1	1435.1	0.08	0.54	-0.88
1540.1	1470.1	0.33	0.68	0.78
1580.1	1510.1	0.36	0.56	0.43
1615.1	1545.1	0.48	0.50	0.32
1655.1	1585.1	0.49	0.38	0.23
1690.1	1620.1	0.46	0.32	0.19
1730.1	1660.1	0.46	0.29	0.19
1765.1	1695.1	0.47	0.29	0.17
1805.1	1735.1	0.31	0.19	0.14
1840.1	1770.1	0.27	0.17	0.13
1880.1	1810.1	0.26	0.17	0.13
1915.1	1845.1	0.26	0.17	0.12
1955.1	1885.1	0.24	0.16	0.12
1990.1	1920.1	0.26	0.16	0.12
2030.1	1960.1	0.29	0.18	0.13
2065.1	1995.1	0.33	0.18	0.13
2105.1	2035.1	0.40	0.23	0.13
2140.1	2070.1	0.39	0.24	0.14
2180.1	2110.1	0.51	0.32	0.18
2215.1	2145.1	0.48	0.33	0.19
2255.1	2185.1	0.51	0.37	0.22
2290.1	2220.1	0.60	0.44	0.28
2330.1	2260.1	0.59	0.42	0.29
2365.1	2295.1	0.77	0.54	0.39
2405.1	2335.1	0.73	0.52	0.37
2440.1	2370.1	0.94	0.72	0.48
2480.1	2410.1	1.29	1.07	0.85
2515.1	2445.1	1.45	1.38	1.15
2555.1	2485.1	1.91	1.72	1.31
2590.1	2520.1	1.89	1.41	0.76

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1880MHz (dB) @LO (dBm) +17
530.0	1350.0	10.28
510.0	1370.0	9.75
490.0	1390.0	9.39
470.0	1410.0	9.24
450.0	1430.0	9.10
430.0	1450.0	8.88
410.0	1470.0	8.47
390.0	1490.0	8.29
370.0	1510.0	8.19
350.0	1530.0	8.07
330.0	1550.0	7.89
310.0	1570.0	7.81
270.0	1610.0	7.69
250.0	1630.0	7.58
210.0	1670.0	7.61
190.0	1690.0	7.47
150.0	1730.0	7.27
130.0	1750.0	7.34
90.0	1790.0	7.25
70.0	1810.0	7.20
30.0	1850.0	7.12
10.0	1870.0	7.18
30.8	1910.8	7.26
51.5	1931.5	7.28
93.1	1973.1	7.37
113.8	1993.8	7.49
155.4	2035.4	7.50
176.2	2056.2	7.55
217.7	2097.7	7.67
238.5	2118.5	7.74
280.0	2160.0	7.86
300.8	2180.8	7.97
342.3	2222.3	8.27
363.1	2243.1	8.37
404.6	2284.6	8.72
425.4	2305.4	8.86
466.9	2346.9	9.29
487.7	2367.7	9.58
529.2	2409.2	10.25
550.0	2430.0	10.53

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1839.9MHz (dB) @LO (dBm) +17
10.1	1850.0	7.34
20.1	1860.0	7.34
30.1	1870.0	7.31
40.1	1880.0	7.33
50.1	1890.0	7.40
60.1	1900.0	7.43
70.1	1910.0	7.38
80.1	1920.0	7.42
90.1	1930.0	7.49
100.1	1940.0	7.44
120.1	1960.0	7.57
130.1	1970.0	7.55
150.1	1990.0	7.56
160.1	2000.0	7.64
180.1	2020.0	7.64
190.1	2030.0	7.67
210.1	2050.0	7.65
220.1	2060.0	7.70
240.1	2080.0	7.72
250.1	2090.0	7.74
270.1	2110.0	7.85
280.1	2120.0	7.88
300.1	2140.0	7.98
310.1	2150.0	7.98
330.1	2170.0	8.05
340.1	2180.0	8.09
360.1	2200.0	8.27
370.1	2210.0	8.37
390.1	2230.0	8.48
400.1	2240.0	8.47
420.1	2260.0	8.54
430.1	2270.0	8.60
450.1	2290.0	8.89
460.1	2300.0	9.03
480.1	2320.0	9.28
490.1	2330.0	9.31
510.1	2350.0	9.48
520.1	2360.0	9.61
540.1	2380.0	9.87
550.1	2390.0	10.16

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1920.1MHz (dB) @LO (dBm) +17
570.1	1350.0	10.53
560.1	1360.0	10.25
550.1	1370.0	9.99
540.1	1380.0	9.76
530.1	1390.0	9.60
520.1	1400.0	9.44
500.1	1420.0	9.37
490.1	1430.0	9.29
470.1	1450.0	9.13
460.1	1460.0	8.86
440.1	1480.0	8.50
430.1	1490.0	8.44
410.1	1510.0	8.37
400.1	1520.0	8.35
380.1	1540.0	8.12
370.1	1550.0	8.05
350.1	1570.0	7.91
340.1	1580.0	7.85
320.1	1600.0	7.84
310.1	1610.0	7.79
290.1	1630.0	7.72
280.1	1640.0	7.71
260.1	1660.0	7.63
250.1	1670.0	7.73
230.1	1690.0	7.61
220.1	1700.0	7.56
200.1	1720.0	7.45
190.1	1730.0	7.42
170.1	1750.0	7.37
160.1	1760.0	7.41
140.1	1780.0	7.26
130.1	1790.0	7.34
110.1	1810.0	7.26
100.1	1820.0	7.18
80.1	1840.0	7.22
70.1	1850.0	7.16
50.1	1870.0	7.20
40.1	1880.0	7.18
20.1	1900.0	7.24
10.1	1910.0	7.24

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
1080.1	37.67	36.66	36.52	43.01	43.18	43.20
1115.1	38.59	38.36	38.70	42.61	44.24	44.98
1150.1	40.07	41.59	42.84	41.13	42.48	42.54
1185.1	41.12	43.56	44.30	39.19	40.37	40.35
1220.1	41.79	43.91	44.05	37.56	39.07	39.44
1255.1	41.70	42.73	42.10	37.18	39.05	39.67
1290.1	40.44	40.46	39.64	38.11	40.53	41.85
1325.1	39.83	40.07	39.94	38.46	41.36	42.81
1360.1	40.00	41.04	41.19	38.54	40.28	41.01
1395.1	40.09	41.57	41.91	38.63	39.60	39.93
1435.1	39.83	41.35	40.63	38.89	39.65	41.45
1470.1	39.52	40.94	41.60	39.53	40.15	40.35
1510.1	38.74	39.90	40.41	39.41	39.62	39.74
1545.1	38.17	38.97	39.04	39.63	39.52	39.30
1585.1	36.66	36.96	36.62	40.28	40.00	39.66
1620.1	34.58	34.27	33.71	40.91	40.82	40.75
1660.1	32.57	31.52	31.05	40.51	40.67	41.86
1695.1	30.73	29.36	28.50	37.27	36.89	37.27
1735.1	27.64	26.42	25.48	32.47	31.60	31.06
1770.1	26.93	25.91	25.30	29.53	28.63	28.29
1810.1	26.77	26.26	26.04	27.66	27.17	27.18
1845.1	26.84	26.65	26.68	27.18	27.10	27.41
1885.1	27.80	27.98	28.08	27.59	27.86	28.47
1920.1	29.23	29.57	29.83	28.88	29.56	30.42
1960.1	30.85	31.29	31.54	30.28	31.62	32.96
1995.1	32.16	32.80	33.10	30.46	32.18	33.94
2035.1	32.20	32.97	33.34	29.68	31.17	32.76
2070.1	32.39	33.16	33.46	29.71	30.98	32.14
2110.1	32.55	33.37	33.68	29.76	30.86	31.84
2145.1	32.60	33.54	33.80	29.89	30.90	31.65
2185.1	32.73	33.75	34.06	30.13	30.91	31.39
2220.1	32.34	33.47	33.78	30.11	30.77	31.10
2260.1	32.36	33.39	33.95	30.32	30.37	30.55
2295.1	31.62	32.72	33.32	30.36	30.13	30.13
2335.1	30.59	31.62	32.32	30.42	29.70	29.47
2370.1	29.79	30.85	31.61	30.45	29.32	28.57
2410.1	28.06	28.56	29.26	30.20	29.05	28.15
2445.1	26.96	27.09	27.27	29.21	28.14	27.09
2485.1	26.04	26.16	26.35	27.77	26.67	25.84
2520.1	25.11	25.71	26.19	25.71	24.82	23.89

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+14	+17	+20
1150.1	1080.1	19.71	17.69	17.67
1185.1	1115.1	27.16	21.40	20.19
1220.1	1150.1	31.23	25.30	22.66
1255.1	1185.1	27.00	22.99	22.06
1290.1	1220.1	25.67	23.33	22.56
1325.1	1255.1	26.48	24.76	23.55
1360.1	1290.1	28.35	25.86	23.41
1395.1	1325.1	30.64	29.55	29.37
1430.1	1360.1	35.39	44.38	64.43
1465.1	1395.1	58.76	39.14	40.14
1505.1	1435.1	38.32	36.87	34.86
1540.1	1470.1	31.37	32.72	36.28
1580.1	1510.1	29.41	32.10	35.67
1615.1	1545.1	28.52	32.18	35.25
1655.1	1585.1	28.57	33.57	34.73
1690.1	1620.1	28.94	34.93	34.35
1730.1	1660.1	28.96	36.52	39.11
1765.1	1695.1	28.78	38.61	48.19
1805.1	1735.1	32.34	43.78	33.89
1840.1	1770.1	30.96	36.69	33.25
1880.1	1810.1	29.79	33.59	32.20
1915.1	1845.1	28.78	32.63	32.84
1955.1	1885.1	27.99	31.83	33.49
1990.1	1920.1	27.35	31.04	33.34
2030.1	1960.1	26.27	30.02	32.90
2065.1	1995.1	25.42	29.08	32.05
2105.1	2035.1	23.88	27.10	30.22
2140.1	2070.1	23.02	25.94	28.76
2180.1	2110.1	21.78	24.31	26.96
2215.1	2145.1	21.06	23.31	25.78
2255.1	2185.1	20.47	22.42	24.60
2290.1	2220.1	19.73	21.43	23.47
2330.1	2260.1	19.06	20.56	22.39
2365.1	2295.1	18.46	19.58	21.26
2405.1	2335.1	17.96	18.74	20.10
2440.1	2370.1	17.63	18.15	19.09
2480.1	2410.1	17.54	17.71	18.17
2515.1	2445.1	17.58	17.74	17.81
2555.1	2485.1	17.86	18.10	18.03
2590.1	2520.1	18.66	18.73	18.54

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+14	+17	+20
1150.1	1080.1	2.41	1.82	1.63
1185.1	1115.1	2.59	1.87	1.68
1220.1	1150.1	2.95	2.21	1.90
1255.1	1185.1	3.12	2.43	2.07
1290.1	1220.1	3.31	2.56	2.20
1325.1	1255.1	3.29	2.59	2.25
1360.1	1290.1	3.21	2.57	2.26
1395.1	1325.1	3.22	2.45	2.05
1430.1	1360.1	3.04	2.26	1.95
1465.1	1395.1	2.85	2.18	1.95
1505.1	1435.1	2.78	2.20	2.03
1540.1	1470.1	2.53	2.07	1.91
1580.1	1510.1	2.44	2.03	1.88
1615.1	1545.1	2.29	1.96	1.83
1655.1	1585.1	2.16	1.89	1.78
1690.1	1620.1	2.09	1.86	1.76
1730.1	1660.1	2.04	1.85	1.78
1765.1	1695.1	2.02	1.83	1.76
1805.1	1735.1	1.86	1.75	1.71
1840.1	1770.1	1.83	1.72	1.69
1880.1	1810.1	1.80	1.69	1.65
1915.1	1845.1	1.80	1.68	1.64
1955.1	1885.1	1.80	1.67	1.61
1990.1	1920.1	1.80	1.65	1.58
2030.1	1960.1	1.83	1.67	1.58
2065.1	1995.1	1.86	1.67	1.58
2105.1	2035.1	1.92	1.71	1.59
2140.1	2070.1	1.94	1.72	1.60
2180.1	2110.1	2.02	1.76	1.61
2215.1	2145.1	2.05	1.79	1.63
2255.1	2185.1	2.06	1.80	1.64
2290.1	2220.1	2.15	1.86	1.68
2330.1	2260.1	2.12	1.84	1.67
2365.1	2295.1	2.17	1.87	1.69
2405.1	2335.1	2.18	1.88	1.69
2440.1	2370.1	2.14	1.86	1.67
2480.1	2410.1	2.14	1.85	1.65
2515.1	2445.1	2.03	1.74	1.50
2555.1	2485.1	1.95	1.59	1.34
2590.1	2520.1	1.73	1.40	1.24

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+14	+17	+20
1080.1	41.37	39.49	36.97
1115.1	38.61	36.20	33.42
1150.1	38.61	39.49	38.61
1185.1	38.61	38.61	37.77
1220.1	36.20	35.46	31.60
1255.1	36.20	34.75	32.79
1290.1	32.18	30.49	27.59
1325.1	30.49	28.03	25.19
1360.1	29.96	28.96	27.59
1395.1	28.03	26.33	24.48
1435.1	24.83	23.49	20.45
1470.1	22.29	21.46	20.70
1510.1	18.90	17.93	16.56
1545.1	16.41	15.81	15.26
1585.1	13.39	12.80	12.18
1620.1	11.17	10.69	10.25
1660.1	8.64	8.35	8.23
1695.1	6.76	6.46	6.15
1735.1	4.95	4.75	4.53
1770.1	3.98	3.85	3.70
1810.1	3.45	3.45	3.43
1845.1	3.45	3.53	3.59
1885.1	3.91	4.09	4.27
1920.1	4.57	4.79	4.96
1960.1	5.63	5.93	6.17
1995.1	6.81	7.14	7.38
2035.1	8.16	8.47	8.60
2070.1	9.53	9.96	10.31
2110.1	10.56	10.75	10.56
2145.1	11.61	11.93	12.01
2185.1	12.52	12.80	12.52
2220.1	12.80	12.80	12.09
2260.1	13.39	13.60	13.60
2295.1	12.71	12.61	11.93
2335.1	12.18	12.18	11.93
2370.1	11.31	11.31	11.09
2410.1	9.63	9.38	8.86
2445.1	8.16	8.01	7.87
2485.1	6.28	5.99	5.68
2520.1	4.74	4.47	4.20

IF (OUT) (MHz)	IF VSWR @LO=1840MHz (:1) @LO (dBm)		
	+14	+17	+20
10.0	1.33	1.53	1.71
50.0	1.33	1.53	1.72
90.0	1.35	1.55	1.74
130.0	1.37	1.58	1.77
170.0	1.40	1.57	1.75
210.0	1.44	1.62	1.79
250.0	1.45	1.59	1.74
290.0	1.52	1.64	1.78
330.0	1.52	1.61	1.73
370.0	1.59	1.65	1.75
410.0	1.63	1.65	1.74
450.0	1.68	1.67	1.72
490.0	1.76	1.73	1.77
530.0	1.80	1.73	1.73
570.0	1.87	1.78	1.78
630.0	1.97	1.84	1.79
670.0	1.98	1.84	1.79
730.0	2.06	1.89	1.80
770.0	2.08	1.90	1.81
830.0	2.17	1.96	1.85
870.0	2.09	1.90	1.78
930.0	2.13	1.93	1.81
970.0	2.10	1.89	1.76
1030.0	2.11	1.91	1.78
1070.0	2.07	1.87	1.75
1130.0	1.97	1.80	1.69
1170.0	1.97	1.80	1.68
1230.0	1.88	1.73	1.63
1270.0	1.84	1.70	1.61
1330.0	1.75	1.64	1.56
1370.0	1.78	1.68	1.61
1430.0	1.70	1.63	1.58
1470.0	1.70	1.65	1.62
1530.0	1.66	1.64	1.64
1570.0	1.70	1.71	1.73
1630.0	1.66	1.71	1.76
1670.0	1.69	1.75	1.82
1730.0	1.68	1.78	1.90
1770.0	1.70	1.83	1.99
1830.0	1.64	1.76	1.92

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	5	11	31	20	27	24	30	48	60	76
1	-	28	+0	38	19	52	36	55	48	48	51	62
2	55	56	47	63	70	65	65	54	65	59	63	74
3	89	78	76	79	64	72	70	77	78	>85	82	>85
4	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
5	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
6	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
7	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
8	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
9	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
10	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1880 MHz; 2.00 dBm.
LO IN: 1810 MHz; +17.00 dBm
IF OUT: 70 MHz; -5.42 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	15	21	42	33	38	33	41	57	62	78
1	-	28	+0	36	19	49	38	57	48	48	55	60
2	35	45	37	49	67	56	57	45	57	50	58	70
3	60	61	50	56	42	62	48	69	57	76	72	70
4	81	73	80	78	66	66	69	73	72	66	74	66
5	>90	90	84	78	81	70	67	68	72	75	76	>95
6	>90	93	90	93	88	85	80	78	79	86	86	90
7	>90	87	>95	>95	>95	86	83	81	77	81	87	90
8	>90	>95	>95	>95	>95	>95	>95	>95	94	>95	>95	>95
9	>90	>95	>95	>95	>95	>95	>95	>95	>95	92	87	>95
10	>90	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1880 MHz; 12.00 dBm.
LO IN: 1810 MHz; +17.00 dBm
IF OUT: 70 MHz; 4.57 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.