

Frequency Mixer

SYM-ED7818/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	6.12	5.65	5.46
90.1	120.1	6.21	5.83	5.72
170.1	200.1	6.08	5.79	5.74
250.1	280.1	6.14	5.91	5.83
330.1	360.1	6.26	6.00	5.92
410.1	440.1	6.45	6.15	6.05
490.1	520.1	6.55	6.24	6.12
570.1	600.1	6.55	6.24	6.13
650.1	680.1	6.57	6.26	6.16
730.1	760.1	6.64	6.28	6.15
810.1	840.1	6.85	6.40	6.22
890.1	920.1	7.12	6.61	6.37
970.1	1000.1	7.37	6.79	6.54
1050.1	1080.1	7.77	7.20	6.92
1130.1	1160.1	8.49	7.83	7.47
1210.1	1240.1	9.08	8.33	7.90
1290.1	1320.1	9.24	8.43	8.01
1370.1	1400.1	9.31	8.45	8.05
1450.1	1480.1	9.57	8.55	8.10
1530.1	1560.1	9.59	8.55	8.05
1610.1	1640.1	9.57	8.57	8.04
1690.1	1720.1	9.47	8.53	8.03
1770.1	1800.1	9.26	8.40	7.95
1850.1	1880.1	9.01	8.17	7.76
1930.1	1960.1	8.80	7.98	7.60
2030.1	2060.1	8.62	7.82	7.45
2110.1	2140.1	8.41	7.65	7.29
2210.1	2240.1	8.18	7.43	7.18
2290.1	2320.1	8.20	7.45	7.22
2390.1	2420.1	8.29	7.51	7.27
2470.1	2500.1	8.45	7.69	7.43
2570.1	2600.1	8.73	7.92	7.67
2650.1	2680.1	8.96	8.17	7.91
2750.1	2780.1	9.34	8.41	8.15
2830.1	2860.1	9.40	8.53	8.25
2930.1	2960.1	9.52	8.71	8.43
3010.1	3040.1	9.72	8.93	8.61
3110.1	3140.1	9.95	9.26	8.93
3190.1	3220.1	10.21	9.52	9.21
3290.1	3320.1	10.48	9.84	9.56

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	33.31	32.09	30.86
90.1	120.1	27.18	25.84	27.91
170.1	200.1	23.25	26.42	26.97
250.1	280.1	23.98	25.33	26.02
330.1	360.1	23.18	23.79	25.50
410.1	440.1	23.03	23.63	26.46
490.1	520.1	22.69	24.50	28.00
570.1	600.1	22.69	25.39	30.80
650.1	680.1	21.95	26.84	29.25
730.1	760.1	19.47	22.79	26.51
810.1	840.1	18.99	21.73	25.48
890.1	920.1	19.18	22.08	26.64
970.1	1000.1	20.06	22.91	25.97
1050.1	1080.1	21.20	23.71	26.01
1130.1	1160.1	21.50	23.93	25.66
1210.1	1240.1	23.56	25.16	27.67
1290.1	1320.1	26.60	28.13	31.37
1370.1	1400.1	28.64	31.01	32.41
1450.1	1480.1	24.31	25.21	26.30
1530.1	1560.1	22.85	23.78	24.86
1610.1	1640.1	23.73	23.93	24.57
1690.1	1720.1	23.77	24.18	24.98
1770.1	1800.1	23.52	23.84	24.79
1850.1	1880.1	23.01	23.51	24.75
1930.1	1960.1	22.47	22.79	23.49
2030.1	2060.1	22.54	22.13	22.35
2110.1	2140.1	21.85	22.22	22.15
2210.1	2240.1	21.72	22.78	22.87
2290.1	2320.1	21.87	23.07	23.16
2390.1	2420.1	22.16	23.02	23.17
2470.1	2500.1	22.46	22.82	23.28
2570.1	2600.1	23.28	23.05	23.98
2650.1	2680.1	23.64	23.41	24.69
2750.1	2780.1	25.43	22.97	24.24
2830.1	2860.1	24.93	23.67	24.78
2930.1	2960.1	25.46	23.51	24.99
3010.1	3040.1	31.98	24.87	24.74
3110.1	3140.1	32.69	27.16	25.62
3190.1	3220.1	30.77	27.59	25.97
3290.1	3320.1	27.25	30.14	27.62

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	1.34	0.95	0.83
90.1	120.1	1.30	0.83	0.55
170.1	200.1	1.35	0.79	0.49
250.1	280.1	1.28	0.69	0.43
330.1	360.1	1.17	0.59	0.34
410.1	440.1	1.09	0.54	0.34
490.1	520.1	1.09	0.55	0.38
570.1	600.1	1.15	0.56	0.44
650.1	680.1	1.16	0.63	0.48
730.1	760.1	1.29	0.81	0.61
810.1	840.1	1.34	0.98	0.76
890.1	920.1	1.46	1.18	0.92
970.1	1000.1	1.56	1.40	1.19
1050.1	1080.1	1.62	1.42	1.20
1130.1	1160.1	1.33	1.11	0.95
1210.1	1240.1	0.97	0.75	0.64
1290.1	1320.1	0.91	0.65	0.51
1370.1	1400.1	0.91	0.63	0.44
1450.1	1480.1	0.71	0.55	0.39
1530.1	1560.1	0.65	0.55	0.42
1610.1	1640.1	0.61	0.50	0.46
1690.1	1720.1	0.62	0.48	0.43
1770.1	1800.1	0.66	0.53	0.50
1850.1	1880.1	0.82	0.61	0.60
1930.1	1960.1	0.99	0.61	0.58
2030.1	2060.1	0.99	0.59	0.53
2110.1	2140.1	1.26	0.64	0.53
2210.1	2240.1	1.33	0.67	0.51
2290.1	2320.1	1.31	0.60	0.41
2390.1	2420.1	1.24	0.49	0.31
2470.1	2500.1	0.99	0.41	0.24
2570.1	2600.1	0.76	0.32	0.19
2650.1	2680.1	0.58	0.26	0.14
2750.1	2780.1	0.58	0.26	0.15
2830.1	2860.1	0.59	0.27	0.19
2930.1	2960.1	0.63	0.33	0.24
3010.1	3040.1	0.59	0.34	0.28
3110.1	3140.1	0.55	0.31	0.27
3190.1	3220.1	0.61	0.34	0.28
3290.1	3320.1	0.64	0.33	0.27

Frequency Mixer

SYM-ED7818/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1510.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1490.1	20.0	8.13	10.1	20.1	6.33	1510.1	1500.0	10.14
1450.1	60.0	8.04	70.1	80.1	5.46	1470.1	1540.0	9.91
1410.1	100.0	8.14	130.1	140.1	5.42	1430.1	1580.0	9.78
1370.1	140.0	8.35	190.1	200.1	5.37	1390.1	1620.0	9.74
1330.1	180.0	8.53	250.1	260.1	5.48	1350.1	1660.0	9.67
1290.1	220.0	8.64	310.1	320.1	5.31	1310.1	1700.0	9.54
1250.1	260.0	8.82	370.1	380.1	5.47	1270.1	1740.0	9.42
1210.1	300.0	8.92	430.1	440.1	5.27	1230.1	1780.0	9.24
1170.1	340.0	9.05	490.1	500.1	5.43	1190.1	1820.0	9.17
1130.1	380.0	9.15	550.1	560.1	5.44	1150.1	1860.0	9.08
1090.1	420.0	9.24	610.1	620.1	5.41	1110.1	1900.0	8.96
1050.1	460.0	9.33	670.1	680.1	5.37	1070.1	1940.0	9.00
1010.1	500.0	9.29	730.1	740.1	5.32	1030.1	1980.0	8.87
970.1	540.0	9.38	790.1	800.1	5.59	990.1	2020.0	8.85
930.1	580.0	9.26	850.1	860.1	5.50	950.1	2060.0	8.74
890.1	620.0	9.29	910.1	920.1	5.53	910.1	2100.0	8.67
850.1	660.0	9.32	970.1	980.1	5.64	870.1	2140.0	8.67
810.1	700.0	9.33	1030.1	1040.1	5.73	830.1	2180.0	8.47
770.1	740.0	9.47	1090.1	1100.1	5.79	790.1	2220.0	8.44
730.1	780.0	9.70	1150.1	1160.1	6.10	750.1	2260.0	8.29
690.1	820.0	10.04	1210.1	1220.1	6.25	710.1	2300.0	8.26
650.1	860.0	9.97	1270.1	1280.1	6.65	670.1	2340.0	8.26
610.1	900.0	10.00	1330.1	1340.1	6.71	630.1	2380.0	8.23
570.1	940.0	9.99	1390.1	1400.1	6.97	590.1	2420.0	8.27
530.1	980.0	9.78	1450.1	1460.1	7.21	550.1	2460.0	8.24
490.1	1020.0	9.61	1510.1	1520.1	7.14	510.1	2500.0	8.23
450.1	1060.0	9.50	1570.1	1580.1	7.39	470.1	2540.0	8.22
410.1	1100.0	9.45	1630.1	1640.1	7.30	430.1	2580.0	8.20
370.1	1140.0	9.35	1690.1	1700.1	7.25	390.1	2620.0	8.31
330.1	1180.0	9.28	1750.1	1760.1	7.24	350.1	2660.0	8.34
290.1	1220.0	9.21	1810.1	1820.1	7.17	310.1	2700.0	8.36
250.1	1260.0	9.13	1870.1	1880.1	7.31	270.1	2740.0	8.36
210.1	1300.0	8.99	1930.1	1940.1	7.33	230.1	2780.0	8.36
190.1	1320.0	8.88	1990.1	2000.1	7.58	190.1	2820.0	8.44
150.1	1360.0	8.72	2050.1	2060.1	7.98	150.1	2860.0	8.52
130.1	1380.0	8.67	2110.1	2120.1	8.25	130.1	2880.0	8.53
90.1	1420.0	8.57	2170.1	2180.1	8.62	90.1	2920.0	8.68
70.1	1440.0	8.56	2230.1	2240.1	9.15	70.1	2940.0	8.75
30.1	1480.0	8.58	2310.1	2320.1	9.78	30.1	2980.0	8.84
10.1	1500.0	9.15	2370.1	2380.1	10.22	10.1	3000.0	9.62

REV. X3

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
40.1	44.49	49.12	53.17	48.13	56.77	78.75
120.1	46.71	50.58	51.46	50.50	54.98	52.66
200.1	49.18	50.25	48.59	52.54	50.54	47.68
280.1	50.84	48.76	46.58	52.66	47.44	44.68
360.1	52.14	47.32	44.83	49.87	45.14	42.92
440.1	51.81	46.11	43.64	46.95	43.09	41.08
520.1	50.94	45.30	42.90	45.10	42.04	40.30
600.1	47.34	43.32	41.47	42.71	40.79	39.51
680.1	46.36	42.72	40.82	43.43	43.14	42.24
760.1	49.89	45.97	43.35	38.40	38.21	37.92
840.1	46.51	44.61	42.74	37.40	37.23	36.83
920.1	43.38	43.50	42.68	36.44	36.75	36.63
1000.1	40.12	41.14	41.46	35.19	35.55	35.58
1080.1	38.55	39.78	40.54	34.29	34.65	34.61
1160.1	37.64	38.94	39.87	33.51	34.16	34.14
1240.1	37.21	38.24	39.01	32.90	33.77	34.05
1320.1	36.90	37.73	38.49	32.09	33.06	33.69
1400.1	37.28	38.18	38.85	31.33	32.37	33.12
1480.1	37.30	38.07	38.69	31.13	32.19	33.04
1560.1	37.32	37.86	38.50	31.12	32.05	33.05
1640.1	37.56	38.02	38.53	31.04	31.99	33.01
1720.1	38.06	38.67	39.29	30.97	32.04	33.09
1800.1	38.66	40.12	41.10	30.92	31.99	33.16
1880.1	40.74	44.05	46.61	31.07	32.05	33.33
1960.1	41.52	46.00	51.67	30.68	31.67	32.90
2060.1	39.08	42.16	44.83	30.23	31.39	32.50
2140.1	38.16	40.34	41.81	30.14	31.50	32.51
2240.1	37.45	38.68	38.87	30.68	31.75	32.50
2320.1	36.07	36.69	36.58	31.02	31.67	32.03
2420.1	35.02	34.79	34.44	31.24	31.49	31.41
2500.1	34.63	33.94	32.89	30.91	30.95	30.60
2600.1	33.83	32.42	31.62	30.66	30.55	30.16
2680.1	32.63	30.78	29.72	30.52	30.32	29.81
2780.1	31.37	29.28	28.17	30.82	30.08	29.80
2860.1	29.70	28.25	27.48	30.57	29.84	29.60
2960.1	28.40	27.09	26.66	30.03	29.62	29.66
3040.1	27.21	26.10	25.63	29.59	29.42	29.65
3140.1	26.01	25.28	25.03	29.33	29.29	29.77
3220.1	25.24	24.59	24.38	29.28	29.45	29.88
3320.1	24.76	24.42	24.45	29.70	29.87	30.50

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	28.06	28.94	29.97
90.1	120.1	38.11	38.88	40.21
170.1	200.1	39.41	39.87	40.73
250.1	280.1	38.99	39.66	40.27
330.1	360.1	38.10	37.80	38.26
410.1	440.1	37.42	37.42	37.63
490.1	520.1	37.58	37.51	38.49
570.1	600.1	38.30	38.13	38.83
650.1	680.1	38.98	38.35	38.06
730.1	760.1	36.96	37.19	37.62
810.1	840.1	38.25	38.30	39.17
890.1	920.1	43.35	41.38	40.60
970.1	1000.1	43.02	41.14	40.13
1050.1	1080.1	40.58	39.19	38.51
1130.1	1160.1	38.98	37.71	36.73
1210.1	1240.1	37.96	37.60	36.53
1290.1	1320.1	37.40	37.10	36.15
1370.1	1400.1	38.26	38.50	37.72
1450.1	1480.1	43.13	41.83	40.68
1530.1	1560.1	40.50	40.56	40.05
1610.1	1640.1	40.20	40.20	39.72
1690.1	1720.1	40.61	40.82	40.23
1770.1	1800.1	41.90	41.75	40.46
1850.1	1880.1	41.30	41.08	40.05
1930.1	1960.1	41.45	42.24	41.21
2030.1	2060.1	45.34	44.74	43.05
2110.1	2140.1	46.27	45.72	43.56
2210.1	2240.1	40.32	39.48	38.78
2290.1	2320.1	38.37	37.27	36.53
2390.1	2420.1	38.01	36.75	35.99
2470.1	2500.1	38.58	37.27	36.42
2570.1	2600.1	41.31	39.38	38.48
2650.1	2680.1	47.64	43.16	41.76
2750.1	2780.1	35.33	35.87	36.60
2830.1	2860.1	30.10	30.69	31.45
2930.1	2960.1	28.21	29.12	30.02
3010.1	3040.1	27.56	28.24	29.14
3110.1	3140.1	27.48	28.10	28.89
3190.1	3220.1	27.73	28.21	28.90
3290.1	3320.1	27.79	28.31	28.86

Frequency Mixer

SYM-ED7818/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.51	1.36	1.13	40.1	1.08	1.61	2.45	10.0	1.91	1.61	1.44
90.1	120.1	1.41	1.23	1.12	120.1	1.15	1.56	2.32	90.0	1.93	1.58	1.40
170.1	200.1	1.37	1.24	1.18	200.1	1.15	1.53	2.24	170.0	1.97	1.63	1.45
250.1	280.1	1.38	1.28	1.23	280.1	1.12	1.54	2.25	250.0	2.00	1.67	1.51
330.1	360.1	1.42	1.31	1.27	360.1	1.09	1.58	2.29	330.0	2.05	1.72	1.57
410.1	440.1	1.47	1.36	1.32	440.1	1.09	1.64	2.35	410.0	2.10	1.78	1.63
490.1	520.1	1.50	1.39	1.36	520.1	1.11	1.70	2.42	490.0	2.15	1.83	1.68
570.1	600.1	1.52	1.39	1.36	600.1	1.17	1.77	2.51	570.0	2.17	1.86	1.71
650.1	680.1	1.55	1.41	1.37	680.1	1.22	1.83	2.57	650.0	2.17	1.85	1.71
730.1	760.1	1.61	1.48	1.43	760.1	1.27	1.88	2.61	730.0	2.15	1.83	1.68
810.1	840.1	1.77	1.62	1.56	840.1	1.32	1.92	2.63	810.0	2.10	1.77	1.62
890.1	920.1	1.94	1.77	1.70	920.1	1.36	1.97	2.70	890.0	2.03	1.69	1.53
970.1	1000.1	2.12	1.92	1.85	1000.1	1.40	2.03	2.77	970.0	1.94	1.60	1.43
1050.1	1080.1	2.33	2.16	2.11	1080.1	1.44	2.06	2.80	1050.0	1.88	1.52	1.34
1130.1	1160.1	2.64	2.46	2.43	1160.1	1.51	2.10	2.82	1130.0	1.82	1.45	1.28
1210.1	1240.1	2.91	2.72	2.69	1240.1	1.60	2.15	2.85	1210.0	1.76	1.42	1.25
1290.1	1320.1	3.05	2.84	2.81	1320.1	1.69	2.21	2.92	1290.0	1.70	1.42	1.29
1370.1	1400.1	3.15	2.94	2.90	1400.1	1.82	2.28	2.97	1370.0	1.72	1.49	1.40
1450.1	1480.1	3.20	3.00	2.95	1480.1	1.95	2.33	2.98	1450.0	1.78	1.61	1.55
1530.1	1560.1	3.31	3.07	2.99	1560.1	2.07	2.39	2.98	1510.0	1.85	1.72	1.69
1610.1	1640.1	3.35	3.10	2.98	1640.1	2.17	2.45	2.99	1590.0	1.93	1.86	1.85
1690.1	1720.1	3.27	3.03	2.90	1720.1	2.26	2.50	3.02	1650.0	2.00	1.96	1.99
1770.1	1800.1	3.12	2.89	2.75	1800.1	2.36	2.54	3.05	1730.0	2.10	2.11	2.15
1850.1	1880.1	2.97	2.72	2.58	1880.1	2.45	2.57	3.04	1790.0	2.13	2.17	2.23
1930.1	1960.1	2.87	2.61	2.44	1960.1	2.53	2.57	2.99	1870.0	2.21	2.29	2.37
2030.1	2060.1	2.68	2.43	2.24	2060.1	2.59	2.53	2.89	1930.0	2.30	2.42	2.53
2110.1	2140.1	2.54	2.27	2.07	2140.1	2.63	2.42	2.69	2010.0	2.37	2.53	2.67
2210.1	2240.1	2.25	1.97	1.81	2240.1	2.71	2.33	2.51	2070.0	2.39	2.58	2.73
2290.1	2320.1	2.08	1.81	1.65	2320.1	2.82	2.32	2.37	2150.0	2.45	2.67	2.83
2390.1	2420.1	1.94	1.67	1.51	2420.1	2.96	2.29	2.22	2210.0	2.52	2.76	2.94
2470.1	2500.1	1.80	1.58	1.44	2500.1	2.99	2.24	2.07	2290.0	2.58	2.85	3.03
2570.1	2600.1	1.69	1.48	1.35	2600.1	2.91	2.10	1.87	2350.0	2.62	2.89	3.09
2650.1	2680.1	1.55	1.37	1.27	2680.1	2.77	1.97	1.69	2430.0	2.69	2.97	3.17
2750.1	2780.1	1.42	1.24	1.15	2780.1	2.60	1.83	1.52	2490.0	2.78	3.06	3.26
2830.1	2860.1	1.29	1.15	1.07	2860.1	2.41	1.69	1.37	2570.0	2.84	3.10	3.28
2930.1	2960.1	1.19	1.05	1.02	2960.1	2.17	1.53	1.21	2630.0	2.86	3.10	3.27
3010.1	3040.1	1.13	1.03	1.09	3040.1	1.99	1.41	1.11	2710.0	2.89	3.12	3.27
3110.1	3140.1	1.12	1.12	1.18	3140.1	1.77	1.28	1.03	2770.0	2.89	3.10	3.25
3190.1	3220.1	1.18	1.21	1.26	3220.1	1.60	1.20	1.12	2850.0	2.92	3.11	3.24
3290.1	3320.1	1.31	1.34	1.40	3320.1	1.42	1.16	1.24	2910.0	3.06	3.21	3.33

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+22	1	+11	11	+10	13	+5	3	9	22
1	-	3	+0	4	+11	14	1	22	17	22	25	17
2	58	42	35	>50	31	48	39	>50	37	48	29	33
3	>90	>50	34	49	49	43	42	>50	50	50	>50	>50
4	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
5	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
6	>90	>50	>50	>50	>50	>50	49	>50	>50	>50	>50	>50
7	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
8	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
9	>90	>50	>50	>50	>50	>50	>50	>50	>50	49	>50	>50
10	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1505 MHz; -1.00 dBm.
LO IN: 1535 MHz; +17.00 dBm
IF OUT: 30 MHz; -39.74 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+12	11	+1	23	1	23	8	17	27	47
1	-	5	+0	5	+11	14	+0	34	18	28	34	23
2	38	30	19	47	17	31	38	37	26	48	23	29
3	75	25	10	27	28	24	21	31	26	38	40	39
4	>90	35	30	42	25	51	31	44	38	47	46	47
5	>90	39	30	52	26	55	38	40	35	46	42	48
6	>90	>60	>60	43	39	46	30	53	39	55	>60	60
7	>90	45	58	48	41	51	37	51	45	49	46	58
8	>90	>60	>60	>60	60	49	48	51	40	>60	50	>60
9	>90	>60	57	54	>60	57	52	>60	49	60	56	>60
10	>90	>60	>60	>60	>60	>60	>60	56	59	57	50	>60
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1505 MHz; 9.00 dBm.
LO IN: 1535 MHz; +17.00 dBm
IF OUT: 30 MHz; -29.7 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.