

Frequency Mixer

SYM-10HJ

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
170.1	200.1	24.70	10.57	7.40	170.1	200.1	2.19	16.03	25.74	170.1	200.1	-12.13	-1.00	-0.03
210.1	240.1	14.38	7.87	6.88	210.1	240.1	9.83	21.70	30.63	210.1	240.1	-3.10	-0.16	0.00
250.1	280.1	9.96	7.17	6.71	250.1	280.1	15.81	27.34	29.57	250.1	280.1	-0.96	-0.03	-0.02
290.1	320.1	7.84	6.80	6.56	290.1	320.1	21.52	26.57	29.10	290.1	320.1	-0.02	-0.02	-0.02
330.1	360.1	7.39	6.75	6.53	330.1	360.1	24.54	26.79	31.79	330.1	360.1	0.04	-0.03	-0.03
370.1	400.1	7.31	6.68	6.46	370.1	400.1	24.73	26.58	30.74	370.1	400.1	0.07	-0.04	-0.03
410.1	440.1	7.11	6.64	6.44	410.1	440.1	25.46	26.41	27.55	410.1	440.1	0.04	-0.02	-0.04
450.1	480.1	7.12	6.63	6.37	450.1	480.1	22.59	25.01	32.42	450.1	480.1	0.00	-0.04	-0.03
490.1	520.1	7.00	6.59	6.33	490.1	520.1	24.11	24.13	27.28	490.1	520.1	-0.04	-0.06	-0.03
530.1	560.1	6.95	6.56	6.33	530.1	560.1	26.87	26.66	29.80	530.1	560.1	-0.01	-0.07	-0.06
570.1	600.1	6.90	6.51	6.29	570.1	600.1	24.63	25.97	27.59	570.1	600.1	-0.04	-0.04	-0.05
610.1	640.1	6.93	6.49	6.24	610.1	640.1	22.56	23.88	26.52	610.1	640.1	-0.08	-0.05	-0.02
650.1	680.1	6.94	6.56	6.24	650.1	680.1	24.39	25.47	27.35	650.1	680.1	-0.07	-0.05	-0.01
690.1	720.1	6.95	6.62	6.31	690.1	720.1	25.45	26.50	31.86	690.1	720.1	-0.04	-0.08	-0.04
730.1	760.1	7.00	6.69	6.45	730.1	760.1	23.17	23.82	25.24	730.1	760.1	-0.04	-0.08	-0.07
770.1	800.1	7.03	6.72	6.49	770.1	800.1	23.29	22.64	24.68	770.1	800.1	-0.02	-0.08	-0.08
810.1	840.1	7.18	6.80	6.55	810.1	840.1	21.83	23.26	24.03	810.1	840.1	-0.04	-0.10	-0.08
850.1	880.1	7.26	6.78	6.48	850.1	880.1	22.32	25.10	26.47	850.1	880.1	0.00	-0.08	-0.06
890.1	920.1	7.52	6.78	6.41	890.1	920.1	26.28	33.64	28.05	890.1	920.1	-0.02	-0.03	-0.03
930.1	960.1	7.92	6.79	6.35	930.1	960.1	18.91	32.35	32.25	930.1	960.1	-0.23	0.05	0.00
970.1	1000.1	8.49	6.97	6.30	970.1	1000.1	12.96	29.00	26.73	970.1	1000.1	-0.68	-0.04	0.02
1010.1	1040.1	8.68	7.41	6.41	1010.1	1040.1	12.92	17.02	27.36	1010.1	1040.1	-0.84	-0.33	0.02
1050.1	1080.1	8.70	7.59	6.55	1050.1	1080.1	13.73	15.17	25.58	1050.1	1080.1	-0.93	-0.50	-0.06
1090.1	1120.1	8.79	7.69	6.71	1090.1	1120.1	14.58	16.54	21.49	1090.1	1120.1	-1.01	-0.58	-0.17
1130.1	1160.1	8.73	7.73	6.80	1130.1	1160.1	15.62	17.09	21.85	1130.1	1160.1	-0.96	-0.59	-0.20
1170.1	1200.1	8.80	7.95	7.12	1170.1	1200.1	16.32	17.44	20.70	1170.1	1200.1	-0.91	-0.69	-0.34
1210.1	1240.1	8.78	8.09	7.35	1210.1	1240.1	17.55	17.85	20.05	1210.1	1240.1	-0.81	-0.67	-0.39
1250.1	1280.1	8.75	8.14	7.48	1250.1	1280.1	17.05	17.13	18.40	1250.1	1280.1	-0.62	-0.60	-0.36
1290.1	1320.1	8.86	8.39	7.83	1290.1	1320.1	18.19	17.38	18.14	1290.1	1320.1	-0.58	-0.60	-0.45
1330.1	1360.1	8.78	8.38	7.89	1330.1	1360.1	17.51	17.31	17.78	1330.1	1360.1	-0.39	-0.44	-0.32
1370.1	1400.1	8.80	8.44	7.99	1370.1	1400.1	18.08	17.06	18.21	1370.1	1400.1	-0.25	-0.33	-0.24
1410.1	1440.1	8.83	8.46	8.05	1410.1	1440.1	17.54	17.34	18.57	1410.1	1440.1	-0.11	-0.18	-0.11
1450.1	1480.1	8.87	8.50	8.10	1450.1	1480.1	18.56	18.75	19.23	1450.1	1480.1	-0.02	-0.07	-0.03
1490.1	1520.1	9.02	8.60	8.25	1490.1	1520.1	19.43	20.06	20.49	1490.1	1520.1	0.06	0.02	0.03
1530.1	1560.1	9.03	8.61	8.38	1530.1	1560.1	21.29	23.85	22.49	1530.1	1560.1	0.18	0.12	0.07
1570.1	1600.1	9.31	8.92	8.73	1570.1	1600.1	24.40	26.90	26.46	1570.1	1600.1	0.24	0.15	0.07
1610.1	1640.1	9.46	9.15	9.03	1610.1	1640.1	21.40	25.36	28.77	1610.1	1640.1	0.29	0.11	0.05
1650.1	1680.1	9.60	9.38	9.30	1650.1	1680.1	20.87	23.65	32.73	1650.1	1680.1	0.28	0.11	0.04
1690.1	1720.1	9.87	9.67	9.62	1690.1	1720.1	20.24	24.08	28.89	1690.1	1720.1	0.25	0.08	0.03
1750.1	1780.1	10.57	10.18	10.16	1750.1	1780.1	21.00	22.28	26.08	1750.1	1780.1	0.19	0.08	0.04

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
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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)=700.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=400.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
300.0	400.1	5.79	10.0	410.1	6.48	400.0	600.1	6.28
284.7	415.4	5.89	20.0	420.1	6.58	390.0	610.1	6.29
269.5	430.6	5.96	30.0	430.1	6.61	380.0	620.1	6.34
254.2	445.9	6.05	40.0	440.1	6.60	370.0	630.1	6.33
238.9	461.2	6.04	50.0	450.1	6.60	360.0	640.1	6.32
223.7	476.4	6.15	60.0	460.1	6.62	350.0	650.1	6.36
208.4	491.7	6.12	70.0	470.1	6.66	340.0	660.1	6.45
193.2	506.9	6.13	80.0	480.1	6.76	330.0	670.1	6.47
177.9	522.2	6.14	90.0	490.1	6.78	320.0	680.1	6.48
162.6	537.5	6.19	100.0	500.1	6.77	310.0	690.1	6.51
147.4	552.7	6.16	110.0	510.1	6.77	300.0	700.1	6.51
132.1	568.0	6.19	120.0	520.1	6.85	290.0	710.1	6.56
116.8	583.3	6.23	130.0	530.1	6.93	280.0	720.1	6.64
101.6	598.5	6.21	140.0	540.1	6.97	270.0	730.1	6.68
86.3	613.8	6.27	150.0	550.1	6.91	260.0	740.1	6.67
71.1	629.0	6.25	160.0	560.1	6.98	250.0	750.1	6.71
55.8	644.3	6.31	170.0	570.1	7.06	240.0	760.1	6.80
40.5	659.6	6.38	180.0	580.1	7.03	230.0	770.1	6.80
25.3	674.8	6.50	190.0	590.1	7.05	220.0	780.1	6.81
10.0	690.1	6.40	200.0	600.1	7.07	210.0	790.1	6.83
10.0	710.1	6.55	210.0	610.1	7.02	200.0	800.1	6.87
25.3	725.4	6.63	220.0	620.1	7.02	190.0	810.1	6.87
40.5	740.6	6.59	230.0	630.1	7.08	180.0	820.1	6.89
55.8	755.9	6.68	240.0	640.1	7.06	170.0	830.1	6.90
71.1	771.2	6.70	250.0	650.1	7.05	160.0	840.1	6.88
86.3	786.4	6.73	260.0	660.1	7.19	150.0	850.1	6.91
101.6	801.7	6.69	270.0	670.1	7.28	140.0	860.1	6.96
116.8	816.9	6.78	280.0	680.1	7.25	130.0	870.1	6.93
132.1	832.2	6.76	290.0	690.1	7.17	120.0	880.1	6.81
147.4	847.5	6.85	300.0	700.1	7.20	110.0	890.1	6.76
162.6	862.7	6.83	310.0	710.1	7.32	100.0	900.1	6.79
177.9	878.0	6.80	320.0	720.1	7.30	90.0	910.1	6.73
193.2	893.3	6.88	330.0	730.1	7.33	80.0	920.1	6.66
208.4	908.5	6.88	340.0	740.1	7.31	70.0	930.1	6.59
223.7	923.8	6.91	350.0	750.1	7.28	60.0	940.1	6.63
238.9	939.0	6.92	360.0	760.1	7.36	50.0	950.1	6.64
254.2	954.3	7.14	370.0	770.1	7.47	40.0	960.1	6.66
269.5	969.6	7.15	380.0	780.1	7.43	30.0	970.1	6.67
284.7	984.8	7.29	390.0	790.1	7.34	20.0	980.1	6.61
300.0	1000.1	7.40	400.0	800.1	7.40	10.0	990.1	6.61

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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
170.1	57.72	56.35	57.89	51.37	47.50	41.20
210.1	57.05	55.85	61.07	47.08	41.55	38.80
250.1	54.72	56.52	63.09	42.93	38.87	37.72
290.1	52.67	54.35	61.02	39.22	37.49	37.57
330.1	50.63	53.27	59.69	37.09	37.26	37.53
370.1	48.97	52.44	58.27	35.92	37.07	37.17
410.1	47.40	50.91	55.59	36.27	37.49	37.30
450.1	45.72	48.92	53.26	35.69	37.03	36.71
490.1	43.73	46.55	50.46	35.53	36.75	36.56
530.1	42.38	45.72	50.21	35.91	37.22	36.66
570.1	41.18	44.21	47.93	35.12	36.53	35.87
610.1	41.27	43.95	47.05	35.39	36.25	35.39
650.1	41.37	43.53	45.95	34.84	35.11	34.55
690.1	41.22	43.30	45.06	34.31	33.73	33.05
730.1	40.76	42.82	44.16	34.35	33.35	32.02
770.1	39.27	41.45	43.10	33.94	32.77	31.42
810.1	38.16	40.51	42.48	33.58	32.09	30.58
850.1	37.32	39.90	41.95	33.57	31.63	29.96
890.1	36.17	38.53	40.58	33.21	30.87	29.09
930.1	35.26	37.69	39.68	32.50	30.32	28.57
970.1	34.49	36.62	38.38	30.58	29.42	28.04
1010.1	33.67	35.34	36.83	28.69	28.28	27.30
1050.1	32.82	34.30	35.54	27.74	27.06	26.63
1090.1	31.90	33.25	34.22	26.78	25.70	25.55
1130.1	31.25	32.78	33.76	25.92	24.94	24.57
1170.1	30.57	32.10	33.03	25.80	24.68	23.84
1210.1	30.15	31.64	32.55	25.03	24.00	23.20
1250.1	29.92	31.21	31.72	24.42	23.66	22.91
1290.1	28.80	30.28	30.86	23.72	23.20	22.59
1330.1	28.27	29.67	30.02	22.88	22.57	21.96
1370.1	28.00	29.19	29.27	22.46	22.23	21.72
1410.1	27.64	28.78	28.79	21.51	21.63	21.25
1450.1	27.46	28.39	28.18	20.95	21.29	20.97
1490.1	27.16	27.92	27.44	20.61	21.10	20.48
1530.1	26.15	26.81	26.48	19.88	20.69	20.09
1570.1	25.62	26.21	25.95	19.06	20.24	19.88
1610.1	25.07	25.55	25.22	18.45	19.85	19.60
1650.1	24.42	24.77	24.28	17.53	19.16	18.99
1690.1	23.96	24.26	23.90	16.90	18.47	18.62
1750.1	22.67	23.21	22.99	15.71	17.67	18.17

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
170.1	200.1	26.27	28.30	30.05
210.1	240.1	25.75	27.75	28.54
250.1	280.1	25.49	26.76	27.33
290.1	320.1	25.55	26.25	26.70
330.1	360.1	25.21	25.82	26.17
370.1	400.1	24.44	25.42	26.14
410.1	440.1	24.42	25.64	26.47
450.1	480.1	23.87	25.05	25.85
490.1	520.1	23.83	24.41	24.87
530.1	560.1	23.74	24.23	24.61
570.1	600.1	23.90	24.65	25.24
610.1	640.1	24.06	25.29	26.35
650.1	680.1	23.80	24.84	25.78
690.1	720.1	23.20	23.67	23.82
730.1	760.1	22.00	22.13	22.08
770.1	800.1	20.75	20.75	20.63
810.1	840.1	19.70	19.63	19.45
850.1	880.1	18.65	18.48	18.26
890.1	920.1	17.91	17.54	17.29
930.1	960.1	17.40	16.93	16.72
970.1	1000.1	17.28	16.87	16.61
1010.1	1040.1	17.18	16.91	16.69
1050.1	1080.1	17.16	16.95	16.80
1090.1	1120.1	17.22	16.94	16.86
1130.1	1160.1	17.24	16.96	16.82
1170.1	1200.1	17.48	17.33	17.14
1210.1	1240.1	17.63	17.65	17.54
1250.1	1280.1	17.60	17.76	17.79
1290.1	1320.1	17.64	17.86	17.89
1330.1	1360.1	17.51	17.71	17.67
1370.1	1400.1	17.18	17.14	16.86
1410.1	1440.1	16.53	16.13	15.56
1450.1	1480.1	15.63	14.85	14.11
1490.1	1520.1	14.73	13.68	12.72
1530.1	1560.1	13.47	12.20	11.23
1570.1	1600.1	12.23	11.01	10.07
1610.1	1640.1	10.91	9.69	8.92
1650.1	1680.1	9.78	8.66	8.04
1690.1	1720.1	9.01	7.92	7.32
1750.1	1780.1	8.35	7.18	6.53

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+14	+17	+20
170.1	200.1	5.59	3.55	2.70
210.1	240.1	4.09	2.75	2.38
250.1	280.1	3.16	2.48	2.27
290.1	320.1	2.63	2.29	2.17
330.1	360.1	2.45	2.22	2.13
370.1	400.1	2.40	2.18	2.08
410.1	440.1	2.27	2.11	2.04
450.1	480.1	2.25	2.10	2.02
490.1	520.1	2.17	2.06	1.98
530.1	560.1	2.08	1.99	1.94
570.1	600.1	2.02	1.94	1.90
610.1	640.1	1.95	1.88	1.84
650.1	680.1	1.88	1.83	1.79
690.1	720.1	1.83	1.80	1.77
730.1	760.1	1.80	1.77	1.75
770.1	800.1	1.77	1.76	1.74
810.1	840.1	1.77	1.75	1.73
850.1	880.1	1.73	1.70	1.68
890.1	920.1	1.67	1.63	1.60
930.1	960.1	1.61	1.54	1.51
970.1	1000.1	1.54	1.44	1.41
1010.1	1040.1	1.43	1.33	1.29
1050.1	1080.1	1.31	1.22	1.17
1090.1	1120.1	1.23	1.12	1.04
1130.1	1160.1	1.22	1.14	1.09
1170.1	1200.1	1.30	1.25	1.23
1210.1	1240.1	1.43	1.41	1.40
1250.1	1280.1	1.59	1.59	1.59
1290.1	1320.1	1.77	1.78	1.79
1330.1	1360.1	1.96	1.99	2.01
1370.1	1400.1	2.15	2.20	2.25
1410.1	1440.1	2.36	2.44	2.49
1450.1	1480.1	2.55	2.63	2.70
1490.1	1520.1	2.73	2.79	2.86
1530.1	1560.1	2.90	2.95	3.00
1570.1	1600.1	3.04	3.04	3.07
1610.1	1640.1	3.12	3.09	3.10
1650.1	1680.1	3.13	3.07	3.07
1690.1	1720.1	3.19	3.10	3.08
1750.1	1780.1	3.34	3.16	3.09

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+14	+17	+20
170.1	52.65	40.41	16.41
210.1	42.38	17.57	7.50
250.1	26.74	9.33	5.44
290.1	15.81	5.77	4.33
330.1	7.73	4.09	3.86
370.1	4.21	3.26	3.67
410.1	3.27	2.92	3.39
450.1	2.77	2.69	3.24
490.1	2.40	2.40	3.08
530.1	2.15	2.32	3.10
570.1	1.88	2.22	2.99
610.1	1.72	2.26	3.12
650.1	1.66	2.27	3.21
690.1	1.59	2.22	3.07
730.1	1.55	2.20	3.07
770.1	1.49	2.15	3.05
810.1	1.47	2.17	3.12
850.1	1.54	2.27	3.13
890.1	1.59	2.29	3.14
930.1	1.71	2.43	3.37
970.1	1.73	2.40	3.25
1010.1	1.75	2.41	3.28
1050.1	1.77	2.45	3.35
1090.1	1.83	2.50	3.40
1130.1	1.92	2.62	3.45
1170.1	1.98	2.69	3.54
1210.1	2.08	2.79	3.68
1250.1	2.22	2.96	3.86
1290.1	2.10	2.72	3.54
1330.1	2.15	2.72	3.50
1370.1	2.20	2.75	3.58
1410.1	2.26	2.76	3.47
1450.1	2.29	2.79	3.52
1490.1	2.36	2.88	3.60
1530.1	2.34	2.79	3.50
1570.1	2.38	2.77	3.47
1610.1	2.47	2.76	3.42
1650.1	2.58	2.85	3.55
1690.1	2.79	2.98	3.58
1750.1	3.18	3.24	3.76

IF (OUT) (MHz)	IF VSWR @LO=1000.1MHz (:1)		
	@LO (dBm)		
	+14	+17	+20
10.0	2.59	1.76	1.46
20.0	3.00	1.99	1.62
30.0	2.68	1.81	1.47
40.0	2.85	1.89	1.51
50.0	2.84	1.90	1.49
60.0	3.02	2.01	1.57
70.0	2.93	1.97	1.55
80.0	2.87	1.94	1.53
90.0	2.89	1.95	1.54
100.0	2.87	1.93	1.54
110.0	2.82	1.90	1.53
120.0	2.84	1.93	1.55
130.0	2.89	1.96	1.57
140.0	2.89	1.96	1.57
150.0	2.90	1.97	1.57
160.0	2.88	1.97	1.57
170.0	2.82	1.92	1.54
180.0	2.85	1.95	1.57
190.0	2.84	1.95	1.58
200.0	2.86	1.98	1.61
210.0	2.85	1.98	1.62
220.0	2.81	1.95	1.61
230.0	2.82	1.96	1.60
240.0	2.78	1.94	1.58
250.0	2.80	1.95	1.59
260.0	2.78	1.95	1.59
270.0	2.85	2.00	1.64
280.0	2.83	2.00	1.64
290.0	2.79	1.98	1.64
300.0	2.75	1.95	1.63
310.0	2.68	1.91	1.61
320.0	2.67	1.90	1.60
330.0	2.65	1.91	1.61
340.0	2.71	1.96	1.65
350.0	2.70	1.96	1.66
360.0	2.69	1.96	1.66
370.0	2.65	1.93	1.64
380.0	2.63	1.92	1.63
390.0	2.65	1.93	1.64
400.0	2.67	1.95	1.67

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	26	17	33	28	41	30	55	40	62
1	-	17	+0	22	13	34	37	32	47	40	53	55
2	79	68	41	73	42	52	41	65	54	50	53	83
3	>100	47	47	45	48	46	41	53	57	57	56	68
4	>100	76	72	67	70	66	65	62	66	83	73	70
5	>100	85	96	77	76	75	70	71	66	76	77	82
6	>100	92	92	94	91	85	85	90	80	82	82	94
7	>100	98	98	>98	>98	92	89	87	96	83	86	91
8	>100	>98	>98	>98	>98	>98	98	87	96	94	91	87
9	>100	>98	>98	>98	>98	>98	>98	>98	>98	96	>98	96
10	>100	>98	>98	>98	>98	>98	>98	>98	>98	>98	>98	>98
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 700.1 MHz; 5.00 dBm.
 LO IN: 730.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -1.59 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	4	16	6	23	17	26	19	42	29	50
1	-	16	+0	21	12	37	39	31	42	40	48	54
2	93	70	49	69	51	57	50	75	62	59	61	79
3	>100	65	66	64	68	66	60	70	74	77	73	79
4	>100	>88	>88	>88	88	87	>88	>88	>88	>88	>88	>88
5	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
6	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>100	>88	>88	>88	>88	>88	>88	>88	86	>88	>88	>88
8	>100	>88	>88	>88	>88	>88	>88	>88	>88	87	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 700.1 MHz; -5.00 dBm.
 LO IN: 730.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -11.67 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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