

Frequency Mixer

SYM-ED7158/1

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
10.1	40.1	7.31	6.69	6.26	10.1	40.1	21.36	27.83	27.76	10.1	40.1	-0.07	0.12	0.05
110.1	140.1	6.75	6.21	5.91	110.1	140.1	20.49	20.84	21.00	110.1	140.1	-0.10	-0.09	-0.08
210.1	240.1	7.16	6.56	6.19	210.1	240.1	18.83	21.27	23.91	210.1	240.1	-0.18	-0.16	-0.11
310.1	340.1	7.68	6.89	6.22	310.1	340.1	19.37	21.65	25.30	310.1	340.1	-0.42	-0.29	-0.06
390.1	420.1	7.96	6.85	6.22	390.1	420.1	18.89	23.37	28.77	390.1	420.1	-0.58	-0.18	-0.02
490.1	520.1	8.06	6.75	6.20	490.1	520.1	18.64	25.83	28.25	490.1	520.1	-0.55	-0.09	-0.03
570.1	600.1	8.12	6.69	6.18	570.1	600.1	17.86	27.04	26.83	570.1	600.1	-0.56	-0.06	-0.03
670.1	700.1	7.31	6.49	6.16	670.1	700.1	24.64	24.10	25.01	670.1	700.1	0.04	0.01	0.00
750.1	780.1	7.04	6.35	6.05	750.1	780.1	25.07	24.50	24.74	750.1	780.1	0.18	0.05	0.03
850.1	880.1	6.95	6.40	6.14	850.1	880.1	23.30	23.29	24.36	850.1	880.1	0.14	0.02	0.01
930.1	960.1	6.88	6.34	6.09	930.1	960.1	23.58	24.89	25.55	930.1	960.1	0.14	0.07	0.04
1030.1	1060.1	7.08	6.54	6.26	1030.1	1060.1	21.88	22.45	23.83	1030.1	1060.1	0.10	0.05	0.04
1110.1	1140.1	7.15	6.68	6.43	1110.1	1140.1	21.40	22.29	23.81	1110.1	1140.1	0.09	0.04	0.03
1210.1	1240.1	7.17	6.77	6.55	1210.1	1240.1	21.53	22.51	24.20	1210.1	1240.1	0.05	0.01	0.02
1290.1	1320.1	7.15	6.77	6.59	1290.1	1320.1	21.41	23.30	24.15	1290.1	1320.1	0.10	0.04	0.03
1390.1	1420.1	7.13	6.70	6.56	1390.1	1420.1	22.45	23.95	25.06	1390.1	1420.1	0.12	0.06	0.04
1470.1	1500.1	7.20	6.68	6.51	1470.1	1500.1	25.75	24.63	26.00	1470.1	1500.1	0.10	0.05	0.05
1570.1	1600.1	7.44	6.85	6.63	1570.1	1600.1	23.90	24.50	24.61	1570.1	1600.1	0.09	0.05	0.05
1650.1	1680.1	7.49	6.84	6.61	1650.1	1680.1	25.19	24.59	25.23	1650.1	1680.1	0.09	0.06	0.06
1750.1	1780.1	7.56	7.00	6.76	1750.1	1780.1	27.79	25.44	25.06	1750.1	1780.1	0.06	0.04	0.04
1830.1	1860.1	7.63	7.02	6.76	1830.1	1860.1	28.58	25.95	25.26	1830.1	1860.1	0.05	0.05	0.04
1930.1	1960.1	7.67	7.03	6.79	1930.1	1960.1	28.23	26.03	26.76	1930.1	1960.1	0.09	0.06	0.05
2010.1	2040.1	7.70	7.10	6.82	2010.1	2040.1	28.77	28.66	26.53	2010.1	2040.1	0.13	0.07	0.04
2110.1	2140.1	7.61	7.00	6.78	2110.1	2140.1	27.17	26.56	27.87	2110.1	2140.1	0.22	0.14	0.07
2190.1	2220.1	7.54	7.03	6.80	2190.1	2220.1	25.34	28.91	28.34	2190.1	2220.1	0.31	0.14	0.07
2290.1	2320.1	7.48	7.03	6.82	2290.1	2320.1	24.27	27.68	29.25	2290.1	2320.1	0.37	0.14	0.08
2370.1	2400.1	7.60	7.14	6.90	2370.1	2400.1	23.36	27.41	29.05	2370.1	2400.1	0.45	0.15	0.07
2470.1	2500.1	7.69	7.24	6.98	2470.1	2500.1	23.31	25.89	28.71	2470.1	2500.1	0.44	0.18	0.09
2550.1	2580.1	7.95	7.47	7.19	2550.1	2580.1	23.48	25.10	25.58	2550.1	2580.1	0.46	0.20	0.10
2650.1	2680.1	8.16	7.64	7.34	2650.1	2680.1	23.13	24.98	25.23	2650.1	2680.1	0.46	0.23	0.12
2730.1	2760.1	8.28	7.71	7.40	2730.1	2760.1	22.69	24.16	24.98	2730.1	2760.1	0.55	0.23	0.15
2830.1	2860.1	8.64	8.05	7.68	2830.1	2860.1	22.40	23.62	25.44	2830.1	2860.1	0.56	0.22	0.13
2910.1	2940.1	8.83	8.20	7.79	2910.1	2940.1	22.57	24.23	23.92	2910.1	2940.1	0.64	0.24	0.14
3010.1	3040.1	9.24	8.49	8.01	3010.1	3040.1	21.44	24.32	23.81	3010.1	3040.1	0.73	0.29	0.15
3090.1	3120.1	9.43	8.65	8.14	3090.1	3120.1	20.78	24.38	24.09	3090.1	3120.1	0.81	0.33	0.17
3190.1	3220.1	9.72	8.84	8.33	3190.1	3220.1	19.51	22.98	24.50	3190.1	3220.1	1.02	0.44	0.18
3270.1	3300.1	10.00	9.00	8.43	3270.1	3300.1	18.86	21.74	24.39	3270.1	3300.1	1.17	0.50	0.22
3370.1	3400.1	10.54	9.30	8.60	3370.1	3400.1	18.08	20.79	23.51	3370.1	3400.1	1.35	0.65	0.30
3450.1	3480.1	11.19	9.71	8.93	3450.1	3480.1	17.23	20.76	22.99	3450.1	3480.1	1.35	0.65	0.34
3550.1	3580.1	12.06	10.08	9.03	3550.1	3580.1	16.16	19.84	21.51	3550.1	3580.1	1.12	0.69	0.49

Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1425.1MHz (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)=2840.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1410.1	15.0	10.44	10.1	20.1	6.44	1330.1	1510.0	10.22
1369.5	55.6	10.36	50.1	60.1	6.31	1289.5	1550.6	10.03
1328.9	96.2	10.17	90.1	100.1	6.27	1248.9	1591.2	9.89
1288.4	136.7	9.93	130.1	140.1	6.46	1208.3	1631.8	9.70
1247.8	177.3	9.85	170.1	180.1	6.68	1167.6	1672.5	9.62
1207.2	217.9	9.67	210.1	220.1	6.47	1127.0	1713.1	9.56
1166.6	258.5	9.59	250.1	260.1	6.40	1086.4	1753.7	9.47
1126.0	299.1	9.46	290.1	300.1	6.61	1045.8	1794.3	9.41
1085.5	339.6	9.29	330.1	340.1	6.66	1005.2	1834.9	9.28
1044.9	380.2	9.20	370.1	380.1	6.71	964.6	1875.5	9.17
1004.3	420.8	9.03	410.1	420.1	6.72	923.9	1916.2	9.11
963.7	461.4	8.90	450.1	460.1	6.91	883.3	1956.8	8.97
923.1	502.0	8.69	490.1	500.1	6.67	842.7	1997.4	9.00
882.6	542.5	8.48	530.1	540.1	6.88	802.1	2038.0	8.86
842.0	583.1	8.34	570.1	580.1	7.06	761.5	2078.6	8.81
801.4	623.7	8.20	610.1	620.1	7.34	741.2	2098.9	8.78
760.8	664.3	8.07	650.1	660.1	7.48	700.6	2139.5	8.60
720.2	704.9	7.96	690.1	700.1	7.50	680.3	2159.8	8.60
679.7	745.4	7.61	730.1	740.1	7.42	639.6	2200.5	8.54
639.1	786.0	7.52	770.1	780.1	7.87	619.3	2220.8	8.48
598.5	826.6	7.50	810.1	820.1	8.11	578.7	2261.4	8.39
557.9	867.2	7.46	850.1	860.1	7.82	558.4	2281.7	8.34
517.3	907.8	7.36	890.1	900.1	8.14	517.8	2322.3	8.22
497.1	928.0	7.29	930.1	940.1	8.66	497.5	2342.6	8.19
456.5	968.6	7.27	970.1	980.1	8.68	456.9	2383.2	8.13
436.2	988.9	7.06	1010.1	1020.1	8.86	436.6	2403.5	8.03
395.6	1029.5	7.05	1050.1	1060.1	8.91	395.9	2444.2	8.02
375.3	1049.8	7.04	1090.1	1100.1	9.06	375.6	2464.5	7.99
334.7	1090.4	6.94	1130.1	1140.1	9.13	335.0	2505.1	7.91
314.4	1110.7	6.98	1170.1	1180.1	9.37	314.7	2525.4	7.87
273.9	1151.2	6.91	1210.1	1220.1	9.60	274.1	2566.0	7.86
253.6	1171.5	6.88	1230.1	1240.1	9.82	253.8	2586.3	7.85
213.0	1212.1	6.83	1270.1	1280.1	9.90	213.2	2626.9	7.77
192.7	1232.4	6.79	1290.1	1300.1	9.68	192.9	2647.2	7.80
152.1	1273.0	6.79	1330.1	1340.1	9.95	152.3	2687.8	7.81
131.8	1293.3	6.77	1350.1	1360.1	9.87	131.9	2708.2	7.75
91.3	1333.8	6.75	1390.1	1400.1	9.87	91.3	2748.8	7.80
71.0	1354.1	6.77	1410.1	1420.1	10.17	71.0	2769.1	7.86
30.4	1394.7	6.75	1450.1	1460.1	10.22	30.4	2809.7	7.85
10.1	1415.0	6.99	1470.1	1480.1	10.45	10.1	2830.0	8.22

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	30.91	34.62	38.37	38.72	43.28	47.69
140.1	36.08	39.71	43.35	39.53	43.33	44.43
240.1	38.06	41.81	45.49	40.48	42.03	40.15
340.1	38.50	42.32	46.71	42.21	40.28	36.86
420.1	39.41	43.79	49.19	43.58	37.79	34.82
520.1	39.74	44.57	51.24	43.57	36.21	33.52
600.1	40.58	46.04	55.51	43.55	35.39	32.79
700.1	41.55	48.00	57.84	39.59	34.33	32.09
780.1	41.49	47.24	51.34	38.90	34.07	31.79
880.1	40.97	44.72	46.67	37.85	33.77	31.62
960.1	39.60	42.79	43.90	37.59	33.85	31.70
1060.1	38.06	40.86	42.78	37.10	33.82	31.92
1140.1	37.12	39.31	40.70	36.99	34.21	32.28
1240.1	35.91	38.51	40.15	36.84	34.79	32.90
1320.1	35.67	37.96	39.59	36.79	35.40	33.59
1420.1	35.23	37.26	38.85	36.60	36.37	35.02
1500.1	34.66	36.58	38.09	36.50	37.27	36.11
1600.1	34.52	37.48	39.30	36.28	38.88	38.15
1680.1	34.20	37.81	40.22	36.14	40.24	40.32
1780.1	34.01	37.91	41.25	35.52	41.95	45.21
1860.1	33.66	37.52	41.03	34.90	42.28	52.03
1960.1	32.83	36.18	39.88	34.77	41.11	51.54
2040.1	32.98	35.41	38.45	35.29	40.46	44.32
2140.1	32.44	34.26	35.89	36.09	40.53	42.10
2220.1	32.87	34.99	36.77	37.10	40.89	41.67
2320.1	33.40	34.87	35.88	36.64	38.93	39.24
2400.1	33.02	33.82	34.30	37.65	38.85	38.32
2500.1	32.90	33.58	33.57	38.80	39.28	38.09
2580.1	32.94	33.09	33.05	39.39	38.95	37.58
2680.1	32.65	32.42	32.42	41.42	39.52	37.65
2760.1	31.10	30.20	30.29	43.41	39.71	38.06
2860.1	29.22	28.49	28.44	45.02	40.50	38.36
2940.1	28.14	27.72	27.84	44.23	40.55	38.85
3040.1	26.94	26.96	27.40	42.85	40.01	38.84
3120.1	26.56	26.90	27.52	42.81	40.31	39.23
3220.1	26.05	26.58	27.37	43.53	41.46	40.37
3300.1	25.84	26.48	27.35	44.08	42.49	41.51
3400.1	25.18	26.26	27.33	44.46	44.04	43.16
3480.1	24.44	25.96	27.22	45.05	45.40	44.90
3580.1	23.61	25.93	27.92	46.95	48.06	49.75

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	26.74	26.28	26.38
110.1	140.1	27.65	27.83	27.89
210.1	240.1	27.88	28.09	28.57
310.1	340.1	28.29	28.81	29.14
390.1	420.1	29.46	29.81	29.83
490.1	520.1	30.86	31.18	30.74
570.1	600.1	33.39	31.77	31.38
670.1	700.1	34.65	32.67	32.01
750.1	780.1	35.31	33.20	32.75
850.1	880.1	35.98	34.23	33.48
930.1	960.1	36.35	34.68	33.65
1030.1	1060.1	36.88	35.33	34.40
1110.1	1140.1	37.05	35.32	34.44
1210.1	1240.1	36.16	35.22	34.65
1290.1	1320.1	35.60	34.71	34.29
1390.1	1420.1	34.95	34.42	33.95
1470.1	1500.1	35.04	34.06	33.57
1570.1	1600.1	34.99	34.02	33.59
1650.1	1680.1	34.64	33.78	33.15
1750.1	1780.1	33.85	34.13	33.62
1830.1	1860.1	33.90	34.35	34.49
1930.1	1960.1	33.08	34.30	34.86
2010.1	2040.1	32.90	33.99	34.36
2110.1	2140.1	33.09	33.85	34.60
2190.1	2220.1	33.99	34.28	34.58
2290.1	2320.1	35.69	36.40	36.41
2370.1	2400.1	36.79	37.66	38.88
2470.1	2500.1	38.06	38.92	39.53
2550.1	2580.1	38.85	39.63	41.02
2650.1	2680.1	39.65	40.90	41.57
2730.1	2760.1	41.66	43.31	43.34
2830.1	2860.1	42.14	48.55	47.88
2910.1	2940.1	42.18	45.34	49.98
3010.1	3040.1	42.24	43.35	46.77
3090.1	3120.1	43.25	43.88	44.19
3190.1	3220.1	43.24	43.23	43.55
3270.1	3300.1	42.35	42.03	42.40
3370.1	3400.1	42.80	41.30	41.12
3450.1	3480.1	41.98	42.00	40.96
3550.1	3580.1	38.63	39.90	39.77

Frequency Mixer

SYM-ED7158/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=2830MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+14	+17	+20		+14	+17	+20	+14		+17	+20		
10.1	40.1	1.43	1.31	1.49	40.1	1.23	1.76	2.68	10.0	1.36	1.16	1.08		
110.1	140.1	1.44	1.28	1.18	140.1	1.02	1.63	2.49	90.6	1.39	1.20	1.15		
210.1	240.1	1.53	1.37	1.29	240.1	1.05	1.57	2.36	171.2	1.41	1.27	1.26		
310.1	340.1	1.69	1.52	1.39	340.1	1.08	1.52	2.25	251.7	1.46	1.37	1.37		
390.1	420.1	1.82	1.60	1.47	420.1	1.12	1.47	2.20	332.3	1.51	1.46	1.50		
490.1	520.1	1.95	1.70	1.58	520.1	1.16	1.44	2.12	412.9	1.56	1.55	1.59		
570.1	600.1	2.06	1.79	1.66	600.1	1.17	1.39	2.06	493.5	1.61	1.63	1.70		
670.1	700.1	2.02	1.83	1.73	700.1	1.23	1.34	1.99	553.9	1.67	1.72	1.80		
750.1	780.1	2.04	1.86	1.76	780.1	1.27	1.32	1.94	634.5	1.70	1.78	1.88		
850.1	880.1	2.04	1.90	1.80	880.1	1.31	1.29	1.88	694.9	1.72	1.82	1.92		
930.1	960.1	2.05	1.90	1.82	960.1	1.36	1.28	1.83	775.5	1.74	1.86	1.96		
1030.1	1060.1	2.11	1.97	1.88	1060.1	1.40	1.27	1.78	835.9	1.77	1.89	2.00		
1110.1	1140.1	2.11	2.00	1.92	1140.1	1.43	1.25	1.75	916.5	1.74	1.87	1.98		
1210.1	1240.1	2.12	2.04	1.98	1240.1	1.46	1.21	1.69	976.9	1.72	1.86	1.97		
1290.1	1320.1	2.12	2.04	2.00	1320.1	1.51	1.18	1.66	1057.5	1.67	1.81	1.92		
1390.1	1420.1	2.16	2.07	2.03	1420.1	1.54	1.14	1.61	1117.9	1.64	1.78	1.89		
1470.1	1500.1	2.21	2.08	2.03	1500.1	1.57	1.12	1.59	1198.5	1.60	1.74	1.86		
1570.1	1600.1	2.29	2.15	2.08	1600.1	1.57	1.07	1.57	1258.9	1.58	1.73	1.84		
1650.1	1680.1	2.33	2.16	2.09	1680.1	1.56	1.07	1.58	1339.5	1.58	1.73	1.85		
1750.1	1780.1	2.33	2.18	2.10	1780.1	1.53	1.13	1.62	1399.9	1.62	1.76	1.87		
1830.1	1860.1	2.35	2.17	2.09	1860.1	1.51	1.22	1.69	1480.5	1.67	1.80	1.92		
1930.1	1960.1	2.33	2.14	2.05	1960.1	1.51	1.35	1.81	1540.9	1.73	1.85	1.96		
2010.1	2040.1	2.28	2.10	2.00	2040.1	1.53	1.49	1.94	1621.5	1.84	1.95	2.04		
2110.1	2140.1	2.17	2.01	1.90	2140.1	1.61	1.66	2.12	1681.9	1.90	2.01	2.10		
2190.1	2220.1	2.06	1.91	1.82	2220.1	1.62	1.75	2.22	1762.5	2.02	2.11	2.20		
2290.1	2320.1	1.96	1.81	1.73	2320.1	1.61	1.87	2.37	1822.9	2.10	2.19	2.26		
2370.1	2400.1	1.90	1.76	1.67	2400.1	1.59	1.92	2.42	1903.5	2.23	2.31	2.39		
2470.1	2500.1	1.86	1.72	1.62	2500.1	1.59	1.99	2.51	1964.0	2.31	2.38	2.45		
2550.1	2580.1	1.86	1.72	1.62	2580.1	1.64	2.08	2.57	2044.5	2.43	2.50	2.55		
2650.1	2680.1	1.87	1.72	1.61	2680.1	1.70	2.17	2.64	2105.0	2.51	2.57	2.62		
2730.1	2760.1	1.87	1.72	1.61	2760.1	1.74	2.20	2.64	2185.5	2.63	2.68	2.72		
2830.1	2860.1	1.89	1.73	1.62	2860.1	1.82	2.26	2.68	2246.0	2.70	2.75	2.79		
2910.1	2940.1	1.93	1.77	1.66	2940.1	1.88	2.30	2.69	2326.5	2.77	2.82	2.86		
3010.1	3040.1	1.98	1.83	1.71	3040.1	1.97	2.37	2.73	2387.0	2.86	2.92	2.96		
3090.1	3120.1	2.00	1.85	1.73	3120.1	2.10	2.48	2.82	2467.6	2.94	3.00	3.04		
3190.1	3220.1	2.01	1.85	1.74	3220.1	2.22	2.55	2.85	2528.0	2.98	3.03	3.07		
3270.1	3300.1	1.99	1.82	1.70	3300.1	2.35	2.66	2.95	2608.6	3.04	3.09	3.12		
3370.1	3400.1	1.96	1.77	1.64	3400.1	2.49	2.73	2.98	2669.0	3.15	3.19	3.23		
3450.1	3480.1	1.98	1.77	1.63	3480.1	2.62	2.80	3.02	2749.6	3.21	3.26	3.29		
3550.1	3580.1	2.01	1.78	1.60	3580.1	2.80	2.90	3.07	2810.0	3.26	3.31	3.34		

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	15	18	33	28	35	27	33	35	47
1	-	27	+0	38	19	46	22	44	53	70	46	44
2	65	70	61	65	65	77	68	75	65	74	61	65
3	>90	>78	72	>78	70	>78	76	>78	76	>78	77	>78
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:

RF IN: 1420 MHz; -5.00 dBm.
LO IN: 1450 MHz; +17.00 dBm
IF OUT: 30 MHz; -12.25 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	25	29	43	39	47	39	47	48	66
1	-	27	+0	38	19	47	22	45	54	72	50	46
2	45	60	52	54	56	78	58	65	59	66	55	59
3	>90	66	52	68	51	76	57	70	56	82	59	81
4	>90	81	81	78	74	77	76	83	79	84	72	>88
5	>90	>88	88	>88	80	>88	72	>88	76	>88	73	85
6	>90	>88	>88	>88	>88	>88	>88	88	>88	>88	>88	>88
7	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 1420 MHz; 5.00 dBm.
LO IN: 1450 MHz; +17.00 dBm
IF OUT: 30 MHz; -2.2 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.