

# Frequency Mixer

# ZLW-11H+

## 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	7.47	7.27	7.22
110.1	140.1	7.69	7.50	7.46
210.1	240.1	7.59	7.45	7.41
310.1	340.1	7.58	7.43	7.39
410.1	440.1	7.57	7.45	7.42
510.1	540.1	7.53	7.40	7.39
610.1	640.1	7.66	7.50	7.46
710.1	740.1	7.73	7.57	7.52
810.1	840.1	7.70	7.55	7.51
910.1	940.1	7.70	7.56	7.51
1010.1	1040.1	7.71	7.56	7.51
1110.1	1140.1	7.75	7.60	7.53
1210.1	1240.1	7.98	7.76	7.66
1310.1	1340.1	8.39	8.07	7.94
1410.1	1440.1	8.92	8.46	8.27
1510.1	1540.1	9.22	8.76	8.52
1610.1	1640.1	9.17	8.81	8.65
1710.1	1740.1	9.18	8.79	8.68
1810.1	1840.1	9.23	8.79	8.64
1910.1	1940.1	9.37	8.88	8.72
2010.1	2040.1	9.50	9.04	8.84
2110.1	2140.1	9.70	9.21	8.96
2210.1	2240.1	9.92	9.39	9.12
2310.1	2340.1	10.54	10.27	10.15
2410.1	2440.1	10.46	9.87	9.59
2510.1	2540.1	10.53	9.96	9.62
2610.1	2640.1	10.54	10.01	9.73
2710.1	2740.1	10.52	10.02	9.76
2810.1	2840.1	10.49	10.00	9.73
2910.1	2940.1	10.42	9.97	9.70
3030.1	3060.1	10.65	10.17	9.94
3130.1	3160.1	10.78	10.28	10.02
3250.1	3280.1	10.93	10.44	10.21
3350.1	3380.1	11.00	10.53	10.30
3470.1	3500.1	11.21	10.84	10.64
3570.1	3600.1	11.63	11.27	11.08
3690.1	3720.1	12.40	11.97	11.77
3790.1	3820.1	13.05	12.52	12.28
3910.1	3940.1	13.90	13.27	12.96
4010.1	4040.1	14.74	13.86	13.57

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	32.18	31.60	29.11
110.1	140.1	24.78	27.15	33.13
210.1	240.1	24.89	29.33	26.48
310.1	340.1	25.77	23.66	27.66
410.1	440.1	20.62	24.28	32.81
510.1	540.1	19.15	28.29	30.02
610.1	640.1	22.33	29.00	30.62
710.1	740.1	20.32	24.59	27.45
810.1	840.1	21.88	33.54	32.58
910.1	940.1	25.69	28.14	32.03
1010.1	1040.1	26.09	29.91	29.40
1110.1	1140.1	21.99	23.62	23.83
1210.1	1240.1	26.08	29.12	33.67
1310.1	1340.1	24.62	28.29	29.26
1410.1	1440.1	26.42	27.64	30.67
1510.1	1540.1	25.44	33.12	30.61
1610.1	1640.1	21.87	22.88	23.88
1710.1	1740.1	20.13	22.49	25.01
1810.1	1840.1	21.95	25.38	33.18
1910.1	1940.1	23.98	28.16	29.78
2010.1	2040.1	23.92	24.39	27.92
2110.1	2140.1	22.66	22.04	23.90
2210.1	2240.1	22.92	20.99	23.05
2310.1	2340.1	19.80	17.13	21.50
2410.1	2440.1	23.14	26.90	31.75
2510.1	2540.1	22.15	28.62	28.10
2610.1	2640.1	24.09	30.48	26.19
2710.1	2740.1	29.57	24.31	23.08
2810.1	2840.1	23.49	21.93	21.95
2910.1	2940.1	21.17	21.25	21.49
3030.1	3060.1	19.60	20.71	21.02
3130.1	3160.1	17.75	18.44	18.76
3250.1	3280.1	17.38	18.47	19.34
3350.1	3380.1	17.15	18.79	20.32
3470.1	3500.1	17.59	20.08	22.09
3570.1	3600.1	18.13	21.14	23.60
3690.1	3720.1	18.74	21.73	24.13
3790.1	3820.1	18.54	20.48	23.15
3910.1	3940.1	17.94	20.00	21.76
4010.1	4040.1	16.55	21.93	23.04

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	0.23	0.11	0.08
110.1	140.1	0.26	0.12	0.05
210.1	240.1	0.28	0.12	0.06
310.1	340.1	0.27	0.13	0.07
410.1	440.1	0.29	0.14	0.05
510.1	540.1	0.38	0.17	0.08
610.1	640.1	0.35	0.14	0.07
710.1	740.1	0.35	0.16	0.08
810.1	840.1	0.41	0.16	0.08
910.1	940.1	0.38	0.18	0.10
1010.1	1040.1	0.43	0.21	0.13
1110.1	1140.1	0.50	0.26	0.17
1210.1	1240.1	0.67	0.41	0.30
1310.1	1340.1	0.68	0.46	0.31
1410.1	1440.1	0.46	0.32	0.22
1510.1	1540.1	0.33	0.17	0.14
1610.1	1640.1	0.40	0.16	0.10
1710.1	1740.1	0.44	0.18	0.12
1810.1	1840.1	0.45	0.23	0.17
1910.1	1940.1	0.39	0.24	0.20
2010.1	2040.1	0.34	0.22	0.19
2110.1	2140.1	0.33	0.24	0.22
2210.1	2240.1	0.34	0.29	0.32
2310.1	2340.1	0.62	0.30	0.24
2410.1	2440.1	0.34	0.26	0.21
2510.1	2540.1	0.26	0.21	0.20
2610.1	2640.1	0.40	0.25	0.21
2710.1	2740.1	0.52	0.31	0.24
2810.1	2840.1	0.69	0.43	0.32
2910.1	2940.1	0.87	0.52	0.38
3030.1	3060.1	1.02	0.58	0.41
3130.1	3160.1	1.13	0.64	0.45
3250.1	3280.1	1.22	0.65	0.40
3350.1	3380.1	1.40	0.72	0.43
3470.1	3500.1	1.54	0.78	0.45
3570.1	3600.1	1.54	0.73	0.40
3690.1	3720.1	1.45	0.59	0.28
3790.1	3820.1	1.48	0.59	0.25
3910.1	3940.1	1.63	0.70	0.26
4010.1	4040.1	1.66	0.76	0.33

# Frequency Mixer

# ZLW-11H+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1500.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3000.1001MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1490.0	10.1	7.50	10.0	20.1	7.55	2990.0	10.1	14.95
1449.5	50.6	7.76	90.0	100.1	7.03	2910.0	90.1	14.33
1408.9	91.2	7.72	170.0	180.1	7.33	2830.0	170.1	13.53
1368.4	131.7	7.78	250.0	260.1	7.22	2750.0	250.1	13.09
1327.8	172.3	7.92	330.0	340.1	7.18	2670.0	330.1	12.67
1287.3	212.8	7.95	410.0	420.1	7.17	2590.0	410.1	12.27
1246.7	253.4	7.95	490.0	500.1	6.99	2510.0	490.1	11.79
1206.2	293.9	7.99	570.0	580.1	7.10	2430.0	570.1	11.60
1165.6	334.5	7.97	650.0	660.1	7.10	2350.0	650.1	13.50
1125.1	375.0	7.78	730.0	740.1	6.96	2270.0	730.1	10.72
1084.5	415.6	7.96	810.0	820.1	6.97	2190.0	810.1	10.58
1044.0	456.1	8.03	890.0	900.1	6.78	2110.0	890.1	10.61
1003.4	496.7	7.98	970.0	980.1	6.77	2030.0	970.1	10.66
962.9	537.2	7.88	1050.0	1060.1	6.57	1950.0	1050.1	10.62
922.3	577.8	7.88	1130.0	1140.1	6.57	1870.0	1130.1	10.63
881.8	618.3	7.89	1210.0	1220.1	6.60	1790.0	1210.1	10.63
841.2	658.9	7.87	1290.0	1300.1	6.66	1710.0	1290.1	10.44
800.7	699.4	7.83	1370.0	1380.1	6.67	1630.0	1370.1	10.39
760.1	740.0	7.86	1450.0	1460.1	6.85	1550.0	1450.1	10.31
719.6	780.5	7.73	1530.0	1540.1	6.91	1470.0	1530.1	10.09
679.0	821.1	7.74	1610.0	1620.1	7.11	1390.0	1610.1	10.17
638.5	861.6	7.61	1690.0	1700.1	7.24	1310.0	1690.1	10.13
597.9	902.2	7.90	1770.0	1780.1	7.50	1230.0	1770.1	10.19
557.4	942.7	7.94	1850.0	1860.1	7.66	1150.0	1850.1	10.21
516.8	983.3	7.92	1930.0	1940.1	7.63	1070.0	1930.1	10.25
476.3	1023.8	7.94	2010.0	2020.1	7.87	990.0	2010.1	10.14
435.8	1064.3	8.11	2090.0	2100.1	7.73	910.0	2090.1	10.15
395.2	1104.9	8.14	2170.0	2180.1	7.65	850.0	2150.1	10.14
354.7	1145.4	8.24	2250.0	2260.1	7.71	770.0	2230.1	10.00
314.1	1186.0	8.47	2330.0	2340.1	8.31	710.0	2290.1	10.01
273.6	1226.5	8.60	2410.0	2420.1	8.29	630.0	2370.1	10.43
253.3	1246.8	8.64	2490.0	2500.1	8.55	570.0	2430.1	9.97
212.7	1287.4	8.83	2570.0	2580.1	8.92	490.0	2510.1	9.90
192.5	1307.6	8.82	2650.0	2660.1	9.40	430.0	2570.1	9.90
151.9	1348.2	8.86	2730.0	2740.1	10.05	350.0	2650.1	9.80
131.6	1368.5	8.85	2810.0	2820.1	10.76	290.0	2710.1	9.77
91.1	1409.0	8.82	2890.0	2900.1	11.57	210.0	2790.1	9.75
70.8	1429.3	8.79	2990.0	3000.1	12.47	150.0	2850.1	9.81
30.3	1469.8	8.77	3070.0	3080.1	13.46	70.0	2930.1	9.96
10.0	1490.1	8.95	3170.0	3180.1	14.47	10.0	2990.1	10.13

REV. X2

ZLW-11H+

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Page 2 of 5



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# Frequency Mixer

# ZLW-11H+

## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+14	+17	+20	+14	+17	+20			+14	+17	+20
40.1	41.82	45.60	48.94	29.95	32.92	35.24	10.1	40.1	21.66	21.35	21.18
140.1	42.33	46.79	48.96	29.90	32.50	33.97	110.1	140.1	21.24	20.99	20.91
240.1	43.18	47.72	48.43	29.57	31.49	31.92	210.1	240.1	21.39	21.46	21.42
340.1	44.36	48.91	48.37	29.49	30.64	30.35	310.1	340.1	22.30	22.41	22.47
440.1	47.17	50.97	48.16	29.87	30.01	29.19	410.1	440.1	23.63	23.63	23.78
540.1	47.36	57.06	50.35	30.25	29.72	28.45	510.1	540.1	24.08	24.39	24.70
640.1	48.55	60.51	50.68	30.50	29.30	28.09	610.1	640.1	25.42	25.61	25.80
740.1	51.13	59.15	49.81	30.70	29.16	27.78	710.1	740.1	28.07	28.08	28.10
840.1	45.46	55.21	51.61	30.96	29.04	27.67	810.1	840.1	29.92	29.93	29.78
940.1	44.86	55.01	52.03	30.30	28.55	27.43	910.1	940.1	31.27	30.90	30.37
1040.1	42.96	52.37	54.33	30.66	28.64	27.47	1010.1	1040.1	32.56	32.37	31.55
1140.1	40.57	47.70	52.51	30.79	28.85	27.61	1110.1	1140.1	37.66	36.28	34.97
1240.1	38.60	45.60	62.96	31.13	29.25	28.13	1210.1	1240.1	39.66	39.76	37.58
1340.1	37.37	43.41	54.19	29.81	28.11	27.33	1310.1	1340.1	53.24	39.78	36.88
1440.1	36.40	42.20	51.19	29.06	27.18	26.48	1410.1	1440.1	42.24	35.95	34.06
1540.1	36.41	42.83	55.72	28.48	26.77	25.85	1510.1	1540.1	38.47	33.90	31.98
1640.1	36.61	44.48	54.30	28.40	26.72	25.74	1610.1	1640.1	35.87	32.73	31.92
1740.1	37.56	45.57	44.94	28.14	26.51	25.55	1710.1	1740.1	36.02	32.67	31.64
1840.1	38.62	42.28	38.99	27.81	26.51	25.57	1810.1	1840.1	35.73	32.32	30.93
1940.1	37.47	37.64	35.17	27.74	26.48	25.92	1910.1	1940.1	34.72	31.54	30.12
2040.1	36.59	35.74	33.48	27.65	26.60	26.06	2010.1	2040.1	32.75	30.91	30.00
2140.1	36.13	34.15	31.99	27.28	26.61	26.32	2110.1	2140.1	31.63	30.56	29.86
2240.1	35.31	31.81	29.84	25.77	25.51	25.60	2210.1	2240.1	30.50	29.90	29.70
2340.1	21.04	18.83	16.65	18.67	18.16	16.95	2310.1	2340.1	27.20	30.97	26.02
2440.1	29.82	29.89	30.34	40.33	35.46	33.16	2410.1	2440.1	30.47	31.78	32.09
2540.1	34.81	35.16	35.10	40.68	51.66	48.03	2510.1	2540.1	39.96	41.20	41.35
2640.1	37.91	37.59	36.44	37.88	45.82	58.49	2610.1	2640.1	36.08	36.78	36.98
2740.1	42.09	40.86	37.82	36.74	42.43	46.58	2710.1	2740.1	32.52	32.80	33.20
2840.1	49.19	44.22	38.51	36.05	39.70	41.33	2810.1	2840.1	30.92	30.70	30.73
2940.1	52.66	43.65	37.85	34.08	36.62	37.96	2910.1	2940.1	29.46	29.11	28.81
3060.1	42.51	41.34	37.47	32.64	34.47	35.79	3030.1	3060.1	28.19	27.86	27.31
3160.1	39.48	39.37	36.55	31.26	32.72	33.94	3130.1	3160.1	27.34	27.34	27.20
3280.1	39.46	40.33	36.66	30.07	31.36	32.27	3250.1	3280.1	26.05	25.90	25.80
3380.1	39.93	42.40	37.99	29.31	30.39	31.20	3350.1	3380.1	25.04	24.96	24.94
3500.1	41.89	45.64	40.00	28.55	29.52	30.11	3470.1	3500.1	23.82	23.93	24.04
3600.1	44.12	48.14	40.68	28.04	28.80	29.21	3570.1	3600.1	23.16	23.32	23.55
3720.1	48.30	47.96	40.39	27.46	27.97	28.13	3690.1	3720.1	22.17	22.34	22.55
3820.1	45.50	44.20	39.32	26.98	27.18	27.15	3790.1	3820.1	21.53	21.66	21.88
3940.1	40.87	39.63	36.94	26.34	26.21	25.81	3910.1	3940.1	20.79	20.85	20.98
4040.1	37.81	36.41	35.30	25.64	24.98	24.72	4010.1	4040.1	19.65	19.71	19.69

# Frequency Mixer

# ZLW-11H+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3000.1001MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.43	1.38	1.45	40.1	1.69	2.46	3.38	10.1	1.26	1.41	1.51
110.1	140.1	1.15	1.26	1.33	140.1	1.62	2.29	3.06	70.1	1.22	1.37	1.48
210.1	240.1	1.13	1.24	1.32	240.1	1.58	2.22	2.92	150.1	1.21	1.36	1.47
310.1	340.1	1.13	1.24	1.31	340.1	1.55	2.14	2.78	210.1	1.19	1.32	1.42
410.1	440.1	1.17	1.27	1.33	440.1	1.53	2.10	2.71	290.1	1.15	1.27	1.35
510.1	540.1	1.18	1.27	1.33	540.1	1.51	2.05	2.63	350.1	1.13	1.23	1.30
610.1	640.1	1.17	1.24	1.30	640.1	1.50	2.03	2.57	430.1	1.13	1.16	1.21
710.1	740.1	1.16	1.23	1.29	740.1	1.51	2.01	2.53	490.1	1.17	1.13	1.14
810.1	840.1	1.17	1.22	1.26	840.1	1.52	2.00	2.51	570.1	1.27	1.18	1.14
910.1	940.1	1.17	1.21	1.26	940.1	1.52	2.01	2.50	630.1	1.38	1.27	1.20
1010.1	1040.1	1.17	1.18	1.21	1040.1	1.53	2.01	2.50	710.1	1.44	1.31	1.23
1110.1	1140.1	1.24	1.21	1.21	1140.1	1.55	2.03	2.50	770.1	1.55	1.41	1.31
1210.1	1240.1	1.36	1.30	1.27	1240.1	1.56	2.04	2.50	850.1	1.67	1.52	1.41
1310.1	1340.1	1.55	1.47	1.43	1340.1	1.58	2.04	2.51	910.1	1.75	1.59	1.48
1410.1	1440.1	1.71	1.64	1.59	1440.1	1.59	2.04	2.50	990.1	1.86	1.69	1.57
1510.1	1540.1	1.85	1.79	1.75	1540.1	1.58	2.01	2.45	1050.1	1.94	1.76	1.64
1610.1	1640.1	1.92	1.86	1.82	1640.1	1.55	1.94	2.36	1130.1	2.01	1.82	1.69
1710.1	1740.1	1.96	1.89	1.86	1740.1	1.52	1.86	2.24	1190.1	2.05	1.86	1.73
1810.1	1840.1	2.01	1.92	1.87	1840.1	1.48	1.75	2.09	1270.1	2.07	1.88	1.75
1910.1	1940.1	2.06	1.96	1.90	1940.1	1.43	1.61	1.88	1330.1	2.09	1.90	1.76
2010.1	2040.1	2.13	2.04	1.99	2040.1	1.36	1.44	1.66	1410.1	2.07	1.88	1.75
2110.1	2140.1	2.21	2.12	2.07	2140.1	1.29	1.26	1.43	1470.1	2.05	1.86	1.73
2210.1	2240.1	2.32	2.22	2.16	2240.1	1.23	1.07	1.27	1550.1	2.00	1.81	1.68
2310.1	2340.1	2.48	2.14	1.81	2340.1	1.54	1.51	1.56	1610.1	1.98	1.80	1.67
2410.1	2440.1	2.81	2.72	2.64	2440.1	1.44	1.22	1.25	1690.1	1.91	1.73	1.61
2510.1	2540.1	2.90	2.79	2.71	2540.1	1.56	1.45	1.53	1750.1	1.88	1.70	1.58
2610.1	2640.1	2.97	2.84	2.76	2640.1	1.72	1.71	1.81	1830.1	1.77	1.59	1.48
2710.1	2740.1	3.02	2.89	2.80	2740.1	1.89	1.96	2.10	1890.1	1.69	1.52	1.41
2810.1	2840.1	3.07	2.90	2.79	2840.1	2.06	2.21	2.38	1970.1	1.57	1.41	1.30
2910.1	2940.1	3.04	2.86	2.73	2940.1	2.23	2.44	2.65	2030.1	1.54	1.39	1.30
3030.1	3060.1	3.03	2.85	2.71	3060.1	2.40	2.66	2.86	2110.1	1.43	1.30	1.23
3130.1	3160.1	2.96	2.80	2.67	3160.1	2.57	2.86	3.09	2170.1	1.34	1.23	1.20
3250.1	3280.1	2.84	2.68	2.56	3280.1	2.78	3.13	3.38	2250.1	1.28	1.25	1.29
3350.1	3380.1	2.69	2.58	2.52	3380.1	2.98	3.34	3.60	2310.1	1.16	1.20	1.27
3470.1	3500.1	2.50	2.48	2.49	3500.1	3.20	3.59	3.90	2390.1	1.95	2.07	2.18
3570.1	3600.1	2.42	2.47	2.54	3600.1	3.41	3.76	4.03	2450.1	1.88	2.04	2.18
3690.1	3720.1	2.46	2.60	2.71	3720.1	3.62	3.93	4.20	2530.1	2.11	2.33	2.51
3790.1	3820.1	2.52	2.72	2.86	3820.1	3.79	4.04	4.26	2590.1	2.37	2.63	2.84
3910.1	3940.1	2.63	2.92	3.15	3940.1	3.90	4.04	4.14	2670.1	2.86	3.21	3.47
4010.1	4040.1	2.84	3.16	3.40	4040.1	4.00	4.09	4.14	2730.1	3.22	3.56	3.83

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+4	9	9	16	12	35	16	30	31	36
1	-	24	+0	23	19	28	24	35	41	41	45	44
2	67	57	48	48	51	60	60	59	46	67	50	54
3	>90	>76	75	72	71	>76	74	71	68	70	72	71
4	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
5	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
6	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
7	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
8	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
9	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
10	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1500.1 MHz; -5.00 dBm.  
 LO IN: 1530.1 MHz; +17.00 dBm  
 IF OUT: 30 MHz; -14 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	19	20	26	24	49	30	42	52	46
1	-	24	+0	23	19	30	24	36	39	46	50	47
2	47	48	37	39	40	55	48	49	39	57	45	46
3	69	58	51	50	51	51	54	50	57	51	60	56
4	>90	65	68	64	69	59	57	65	63	61	60	60
5	>90	71	68	82	66	65	63	67	69	72	65	73
6	>90	78	83	78	>86	72	74	68	75	76	>86	71
7	>90	>86	>86	83	>86	>86	79	77	73	75	82	85
8	>90	>86	>86	>86	>86	>86	>86	>86	>86	82	>86	86
9	>90	>86	>86	>86	>86	>86	>86	>86	>86	86	83	82
10	>90	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1500.1 MHz; 5.00 dBm.  
 LO IN: 1530.1 MHz; +17.00 dBm  
 IF OUT: 30 MHz; -3.98 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.