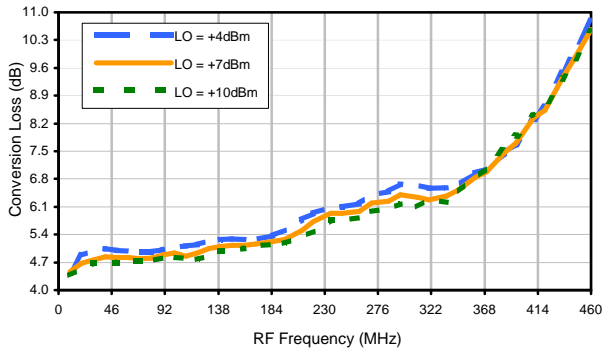


# Frequency Mixer

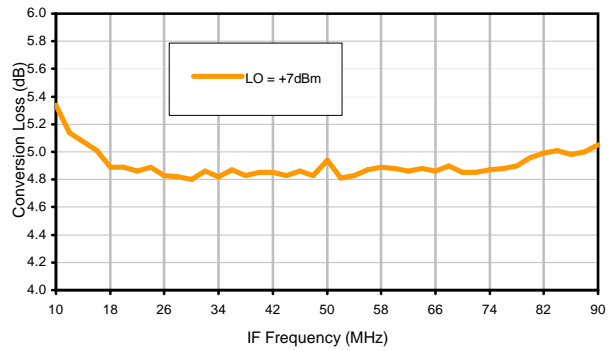
# ZLW-3+

## Typical Performance Curves

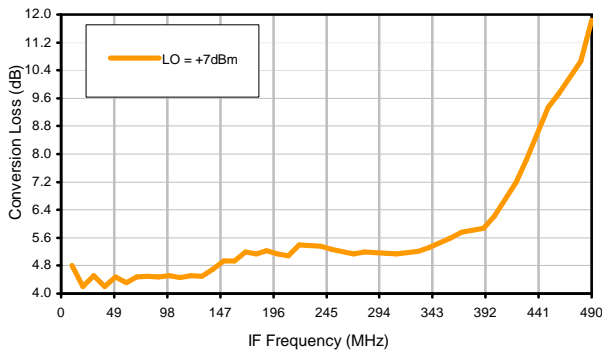
### Conversion Loss @ IF=30MHz



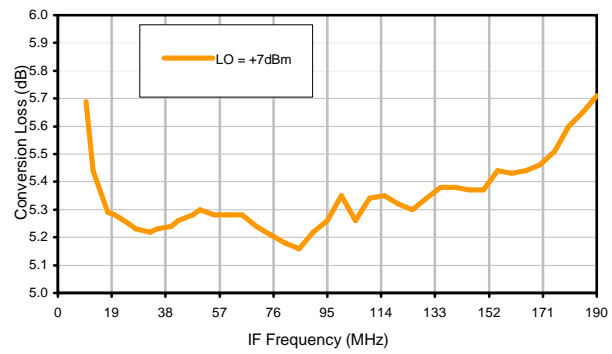
### Conversion Loss vs. IF @ RF=100.1MHz



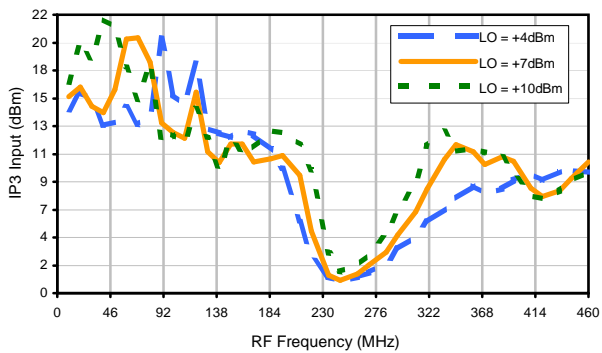
### Conversion Loss vs. IF @ RF=10.1MHz



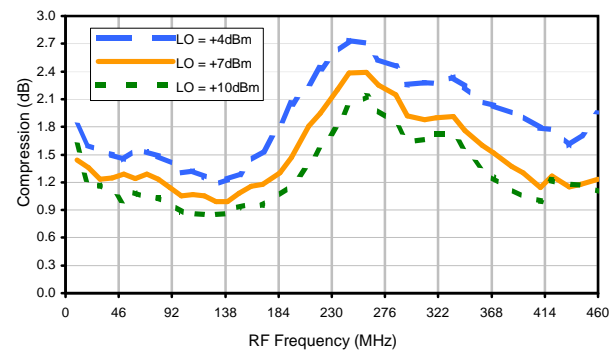
### Conversion Loss vs. IF @ RF=200.1MHz



### IP3 Input



### Compression @ RF IN=+1dBm

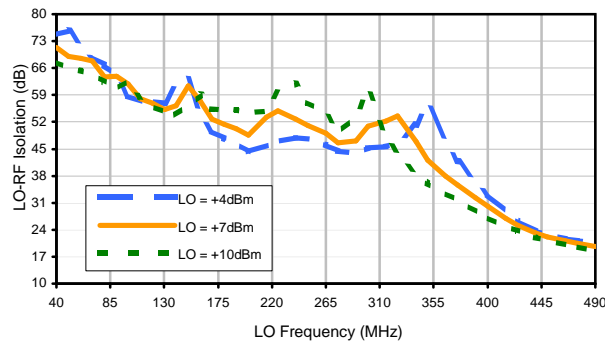


# Frequency Mixer

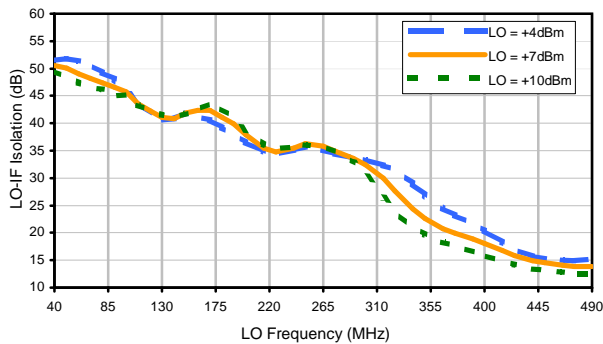
# ZLW-3+

## Typical Performance Curves

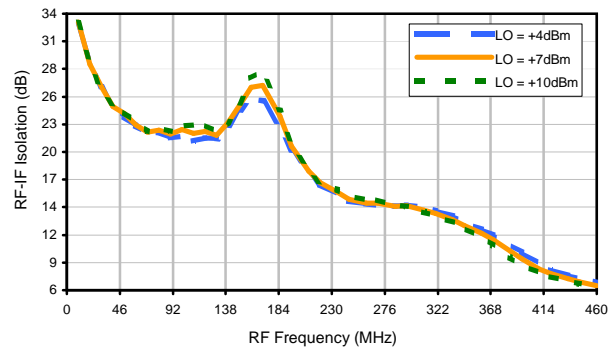
### LO-RF Isolation



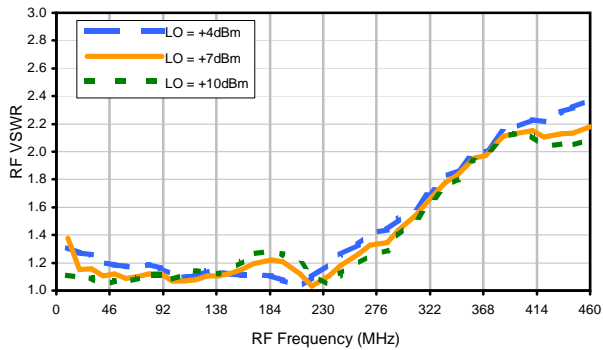
### LO-IF Isolation



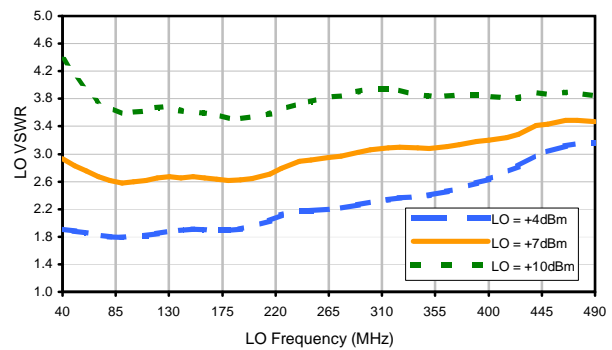
### RF-IF Isolation



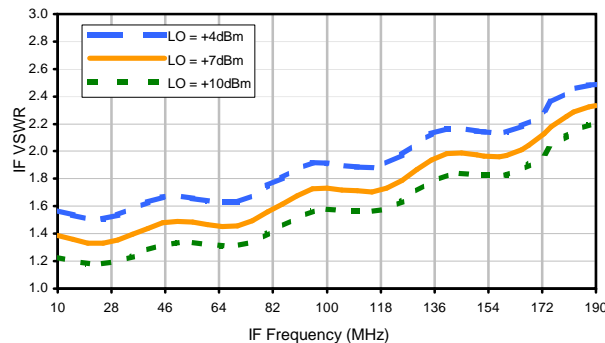
### RF VSWR



### LO VSWR



### IF VSWR



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## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	26	20	31	19	45	30	44	51	54
1	-	19	+0	26	11	36	20	38	41	48	38	55
2	>90	60	59	61	59	66	>71	65	55	64	59	>71
3	>90	59	57	62	60	61	62	59	68	65	62	>71
4	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
5	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
6	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
7	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
8	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
9	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
10	>90	>71	>71	>71	>71	>71	>71	>71	>71	61	>71	>71
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 100.1 MHz; -14.00 dBm.  
 LO IN: 130.1 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -19.06 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	37	30	43	31	61	44	58	62	75
1	-	19	+0	27	12	45	21	44	39	53	49	61
2	74	59	56	58	58	58	50	56	49	64	56	74
3	>90	44	38	52	37	46	38	53	43	52	58	62
4	>90	63	77	65	76	67	62	78	64	71	62	76
5	>90	69	59	62	60	59	57	58	65	58	65	64
6	>90	81	80	77	>81	75	80	77	>81	73	75	81
7	>90	>81	69	72	72	73	79	71	67	70	61	68
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	80	>81	>81	>81	>81	>81	>81	79
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	73	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 100.1 MHz; -4.00 dBm.  
 LO IN: 130.1 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -9.06 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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