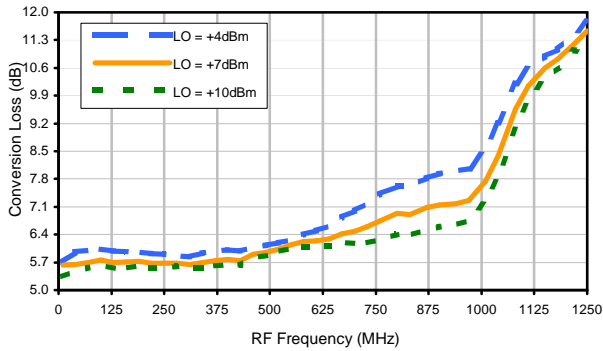


# Frequency Mixer

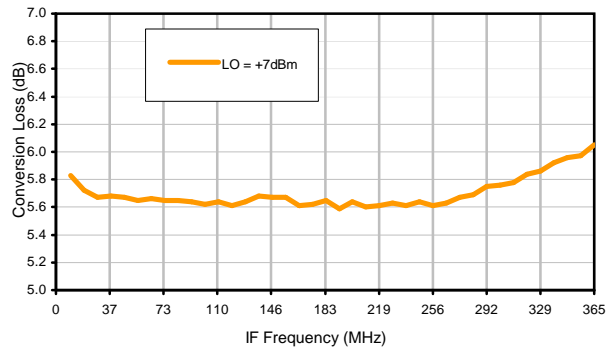
# ZLW-1W+

## Typical Performance Curves

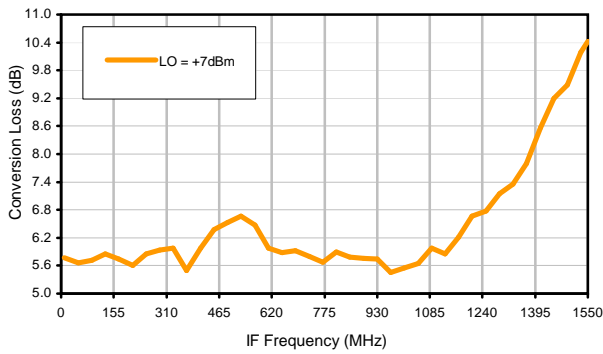
### Conversion Loss @ IF=30MHz



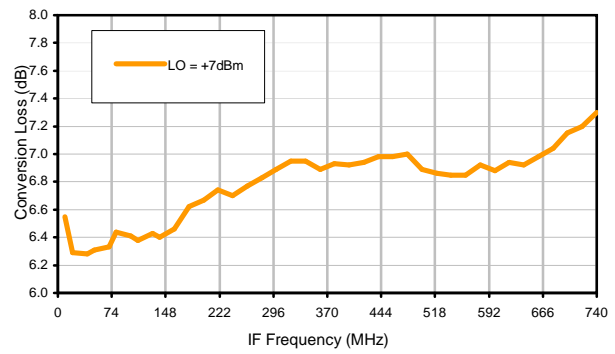
### Conversion Loss vs. IF @ RF=375.1MHz



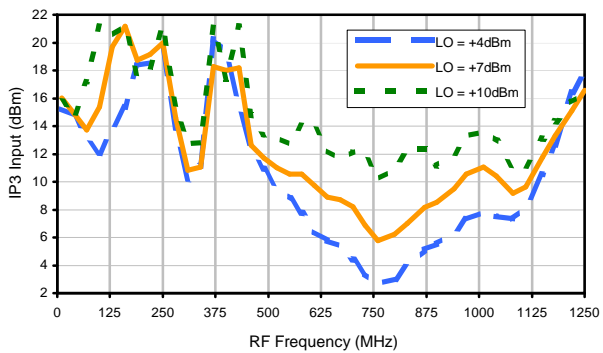
### Conversion Loss vs. IF @ RF=10.1MHz



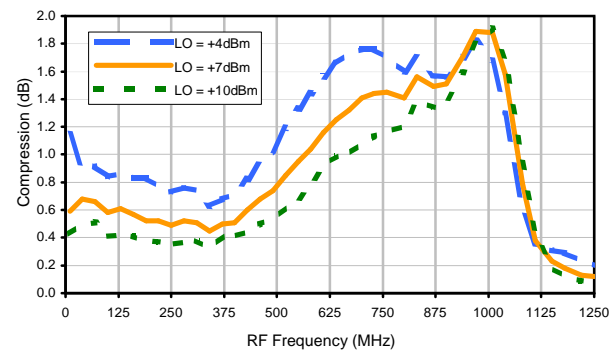
### Conversion Loss vs. IF @ RF=750.1MHz



### IP3 Input



### Compression @ RF IN=+1dBm



REV. X2  
ZLW-1W+  
101011  
Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant  
P.O. Box 350166, Brooklyn, New York 11235-0066 (718) 934-4500 Fax (718) 332-4661

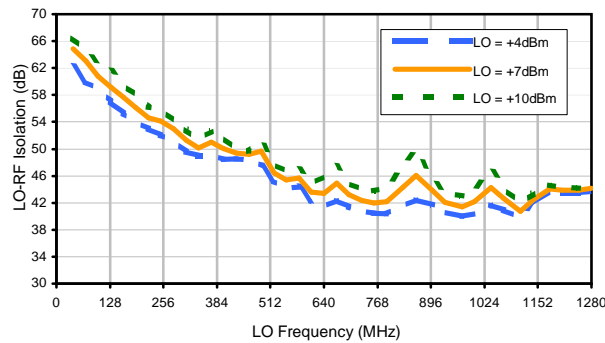


The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

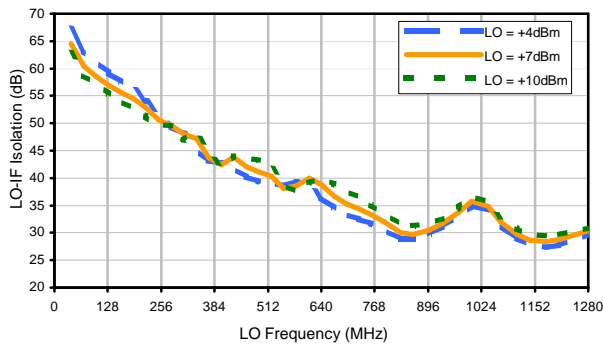


## Typical Performance Curves

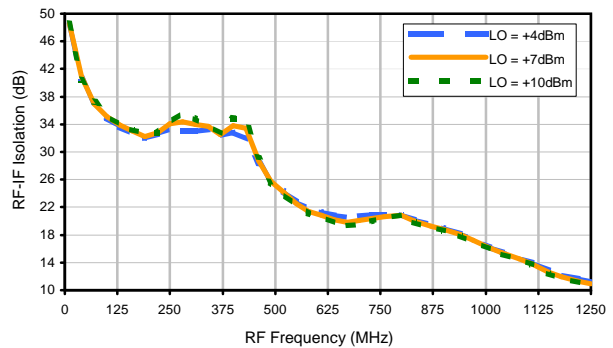
### LO-RF Isolation



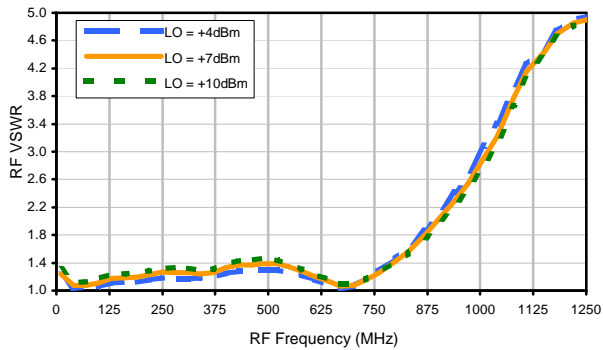
### LO-IF Isolation



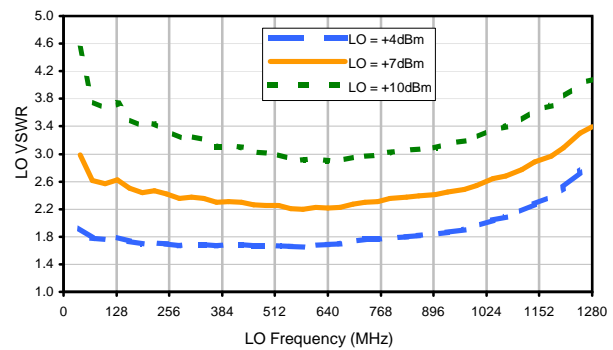
### RF-IF Isolation



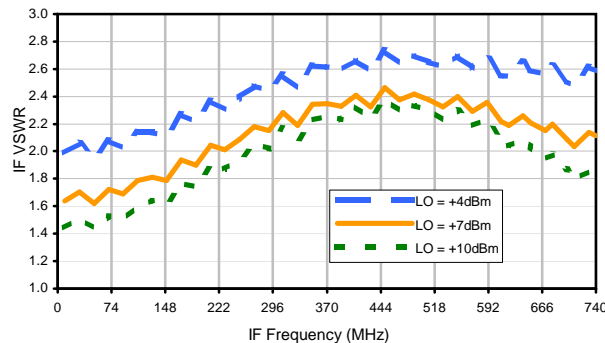
### RF VSWR



### LO VSWR



### IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	42	19	35	19	24	15	32	46	48
1	-	27	+0	35	11	43	18	36	43	34	46	55
2	77	>70	61	>70	62	>70	61	>70	62	64	51	67
3	>90	>70	69	>70	>70	>70	64	>70	>70	>70	>70	67
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 375.1 MHz; -14.00 dBm.  
 LO IN: 405.1 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -19.98 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	55	29	46	30	36	28	45	61	65
1	-	29	+0	33	12	41	20	41	44	42	61	64
2	57	63	56	68	63	64	65	70	56	62	46	66
3	>90	54	40	56	43	65	38	63	43	53	67	49
4	>90	76	68	71	64	74	64	75	64	80	71	73
5	>90	69	62	66	55	65	55	66	56	63	66	78
6	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	80	>80
7	>90	>80	>80	>80	76	>80	71	>80	70	>80	65	76
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 375.1 MHz; -4.00 dBm.  
 LO IN: 405.1 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -10.07 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.