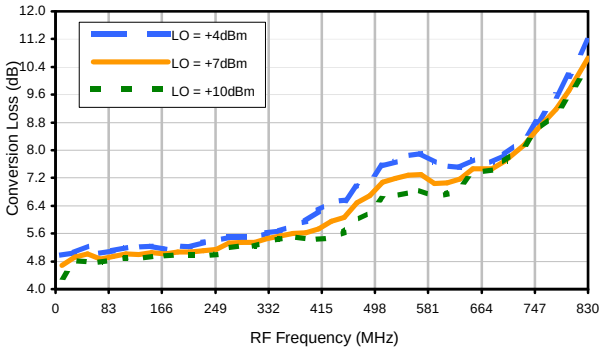
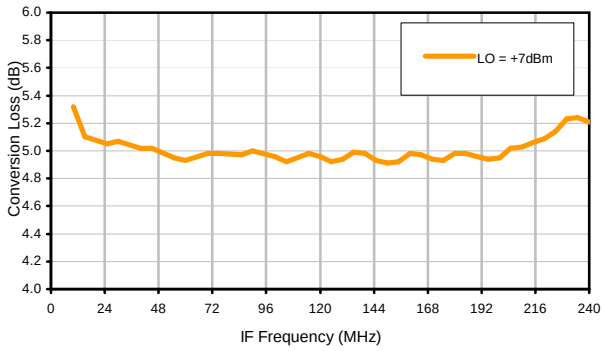
Frequency Mixer ZLW-1-1+

Typical Performance Curves

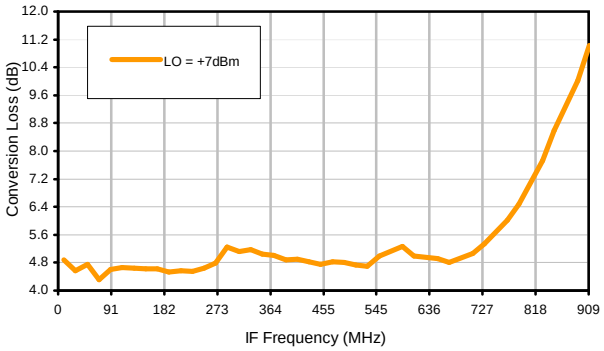
Conversion Loss @ IF=30MHz



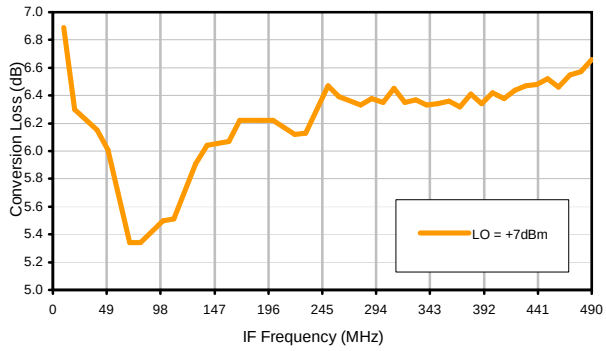
Conversion Loss vs. IF @ RF=250.1MHz



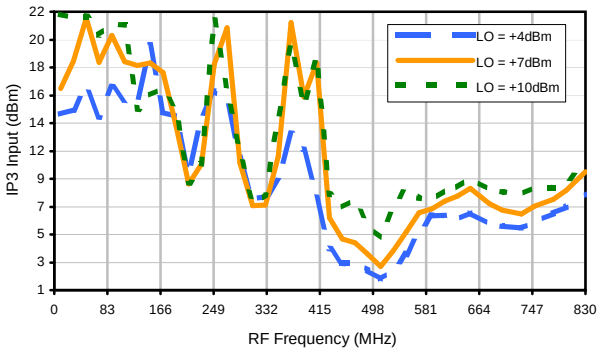
Conversion Loss vs. IF @ RF=10.1MHz



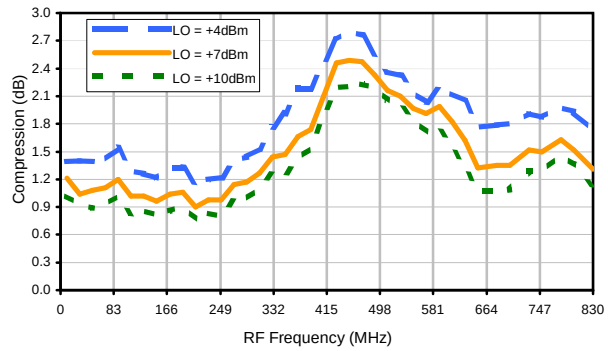
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input

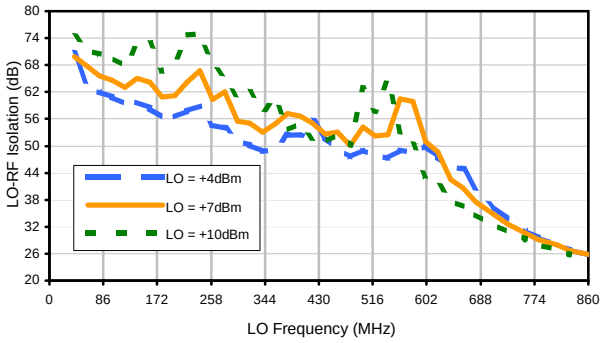


Compression @ RF IN=+1dBm

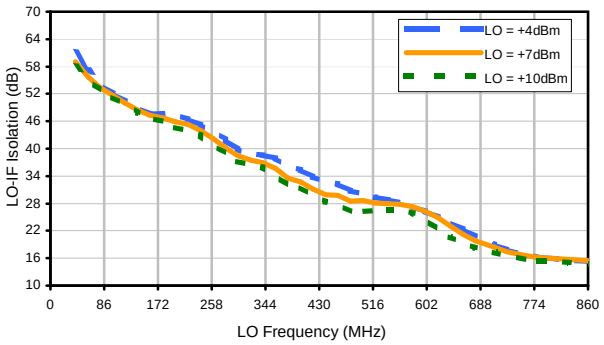


Typical Performance Curves

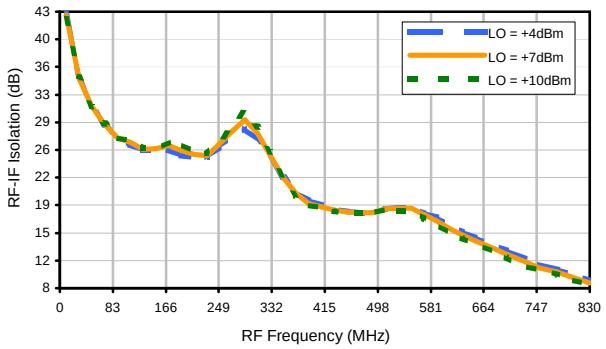
LO-RF Isolation



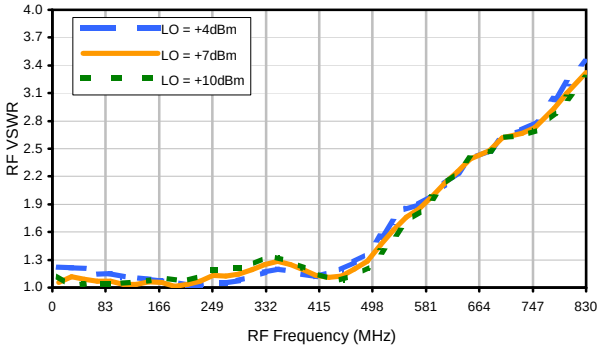
LO-IF Isolation



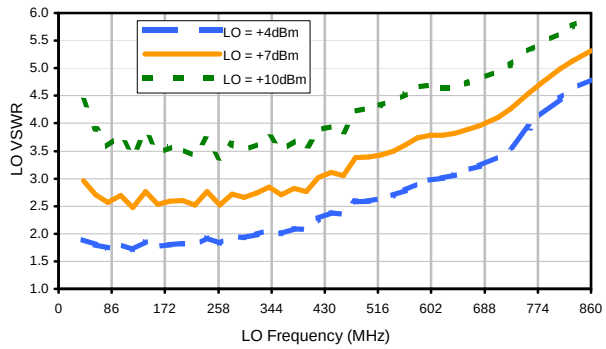
RF-IF Isolation



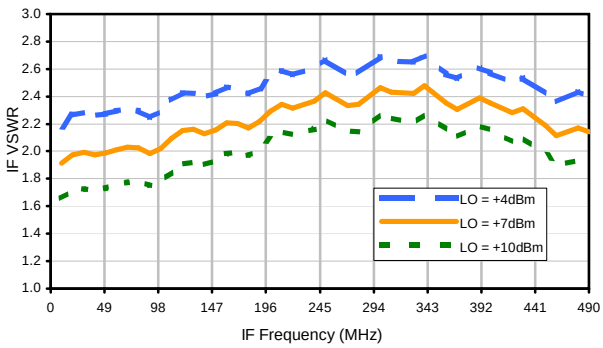
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	14	41	15	37	21	29	40	38	45	63
1	-	21	+0	26	10	38	24	40	34	40	51	68
2	83	>69	55	66	57	66	52	>69	66	>69	>69	>69
3	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 250.1 MHz; -14.00 dBm.**
LO IN: 280.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -19.95 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	24	69	28	48	33	42	51	52	60	>80
1	-	21	+0	27	11	37	26	44	36	47	57	71
2	62	59	45	57	48	56	47	64	76	62	64	66
3	>90	51	42	49	44	54	38	65	48	53	53	53
4	>90	>80	73	>80	66	>80	65	75	59	75	74	>80
5	>90	>80	60	60	52	67	54	67	57	68	69	72
6	>90	>80	>80	>80	80	>80	>80	>80	>80	>80	>80	>80
7	>90	>80	>80	>80	73	72	69	75	70	77	67	>80
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	79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 250.1 MHz; -4.00 dBm.**
LO IN: 280.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -9.23 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.