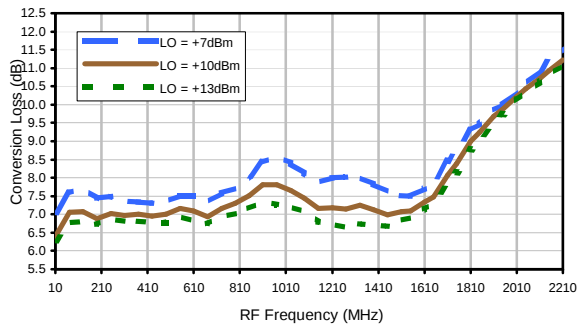


Frequency Mixer

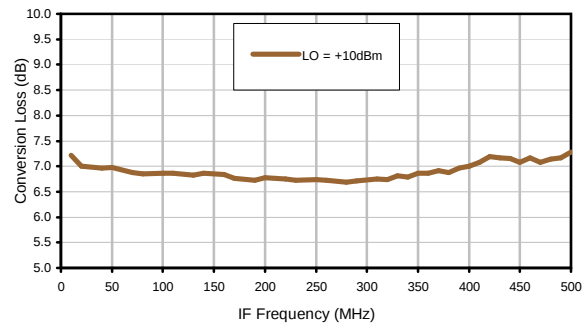
ADEX-ED12873/5

Typical Performance Curves

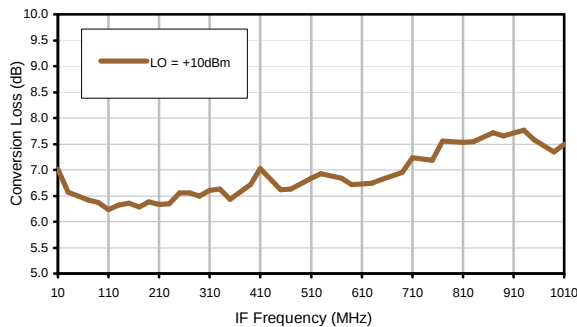
Conversion Loss @ IF=30 MHz



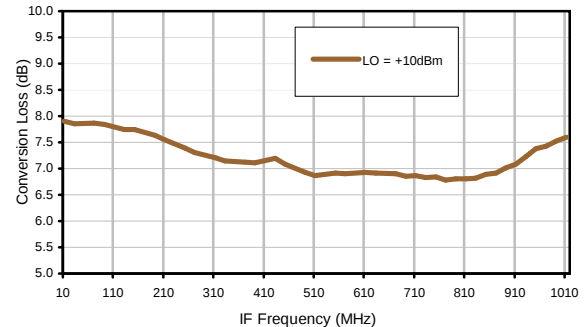
Conversion Loss vs. IF @ RF=510.1 MHz



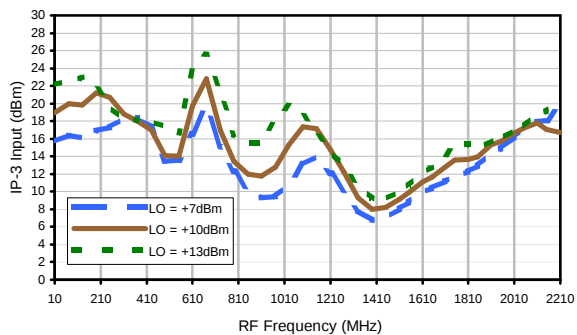
Conversion Loss vs. IF @ RF=10 MHz



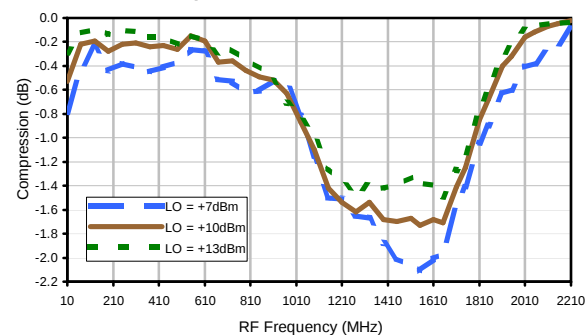
Conversion Loss vs. IF @ RF=1023.1 MHz



IP-3 Input



Compression @ RF IN = +5 dBm

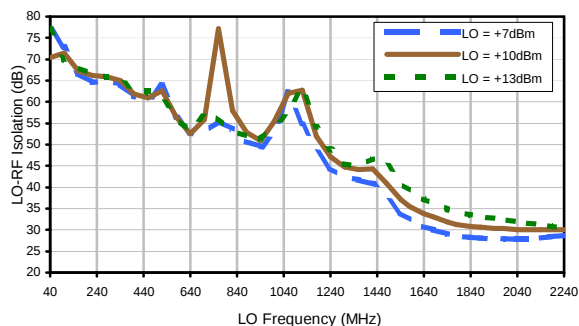


Frequency Mixer

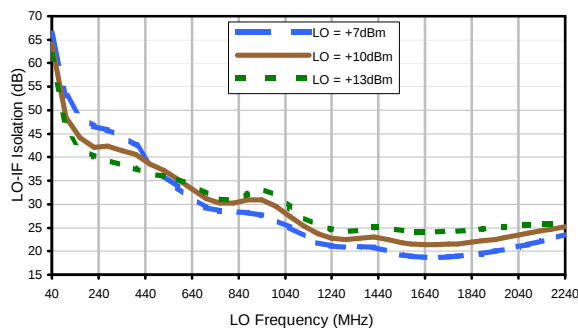
ADEX-ED12873/5

Typical Performance Curves

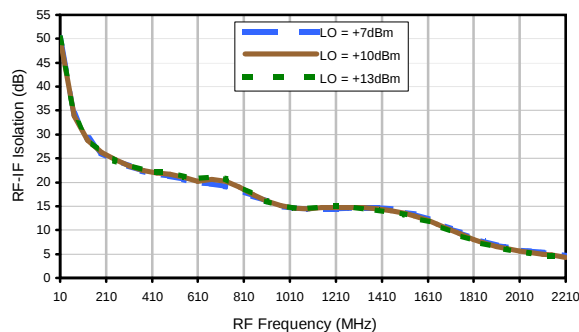
LO-RF Isolation



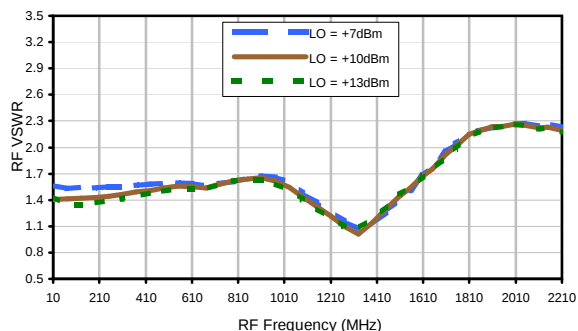
LO-IF Isolation



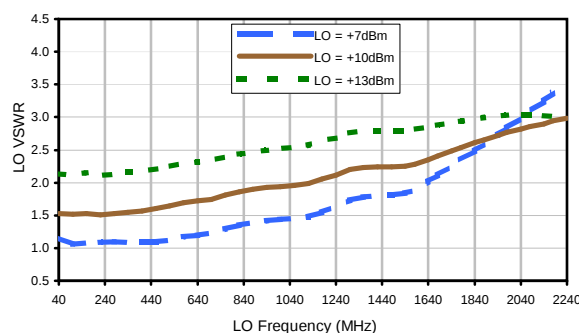
RF-IF Isolation



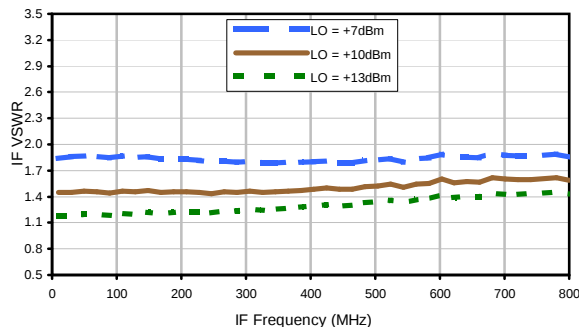
RF VSWR



LO VSWR



IF VSWR



REV. X2

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Harmonics Tables

	RF HARMONICS ORDER	(-dBm)											
		(-dBc)											
0	-	-	8	25	6	24	16	28	28	40	60	51	
1	-	14	+0	36	15	39	20	33	46	42	51	39	
2	83	67	45	57	46	67	45	62	56	> 73	63	62	
3	> 90	> 73	57	> 73	55	> 73	54	> 73	58	72	69	> 73	
4	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	
5	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	
6	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	
7	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	
8	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	
9	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	
10	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	
RF CAL		0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 505.00 MHz; -10.00 dBm.
 LO IN: 535.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -17.21 dBm

	RF HARMONICS ORDER	(-dBm)											
		(-dBc)											
0	-	-	17	35	18	35	28	39	41	58	63	52	
1	-	14	+0	36	15	46	22	36	45	48	55	46	
2	64	61	38	55	38	61	37	60	47	59	55	66	
3	> 90	52	44	58	43	71	38	54	46	53	60	60	
4	> 90	73	57	73	56	72	58	70	53	66	70	69	
5	> 90	72	64	69	52	80	52	79	54	71	55	68	
6	> 90	> 83	79	80	> 83	82	72	> 83	68	> 83	63	78	
7	> 90	> 83	> 83	> 83	75	> 83	> 83	> 83	> 83	> 83	72	81	
8	> 90	> 83	> 83	> 83	> 83	> 83	82	> 83	80	> 83	78	> 83	
9	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	
10	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	
RF CAL		0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 505.00 MHz; 0 dBm.
 LO IN: 535.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -7.18 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.