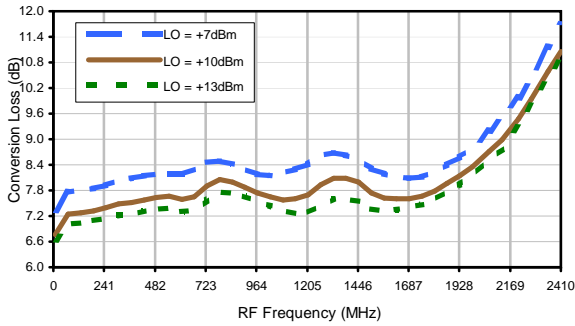


Frequency Mixer

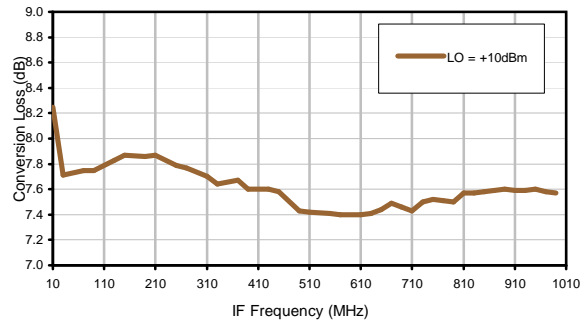
ADE-R11XLH+

Typical Performance Curves

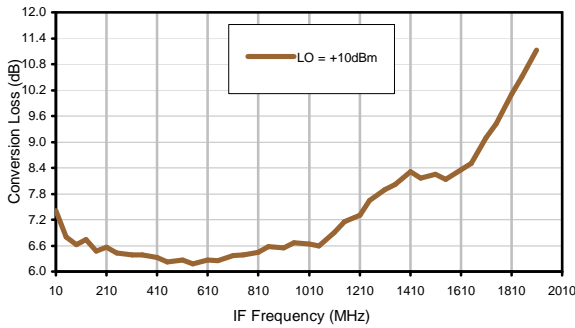
Conversion Loss @ IF=30MHz



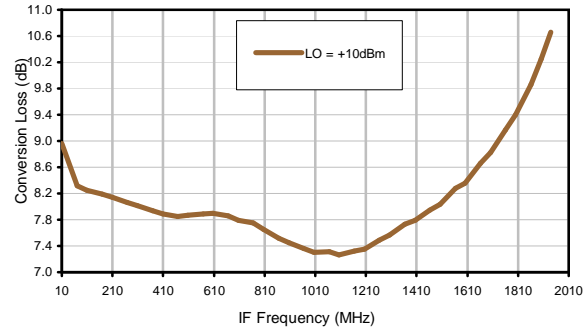
Conversion Loss vs. IF @ RF=1010.1 MHz



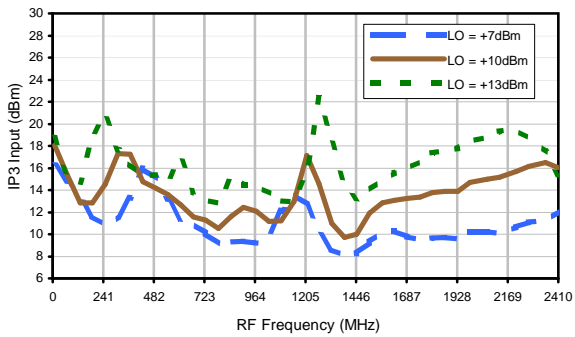
Conversion Loss vs. IF @ RF=10MHz



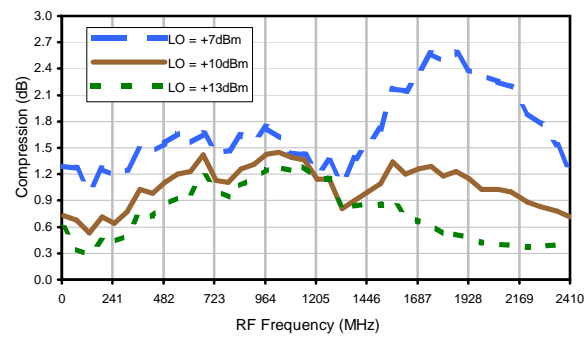
Conversion Loss vs. IF @ RF=2020.1MHz



IP3 Input

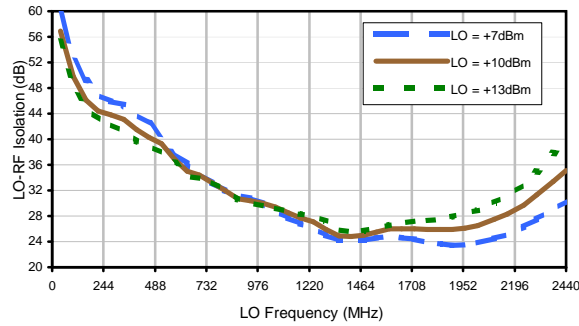


Compression @ RF IN=+5dBm

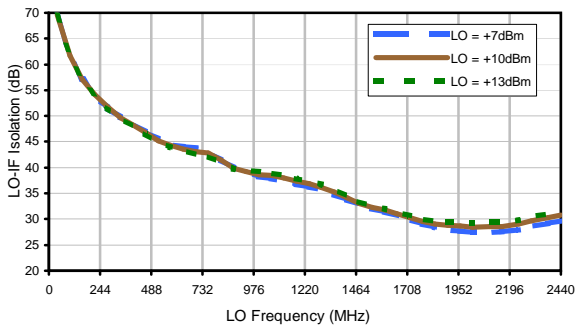


Typical Performance Curves

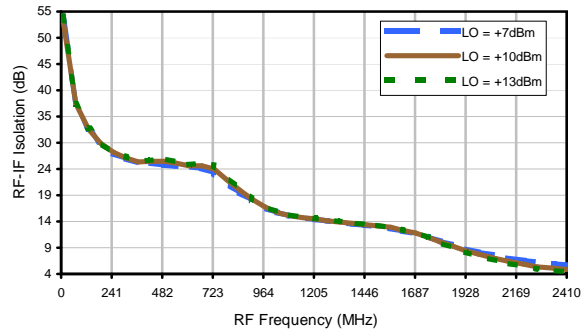
LO-RF Isolation



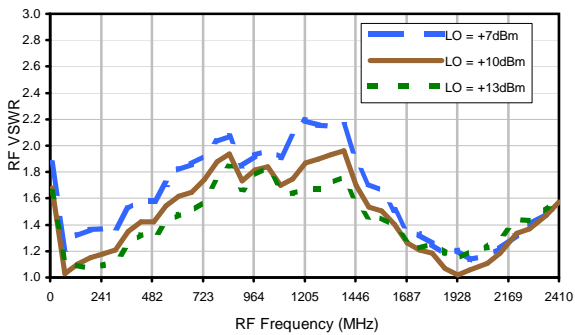
LO-IF Isolation



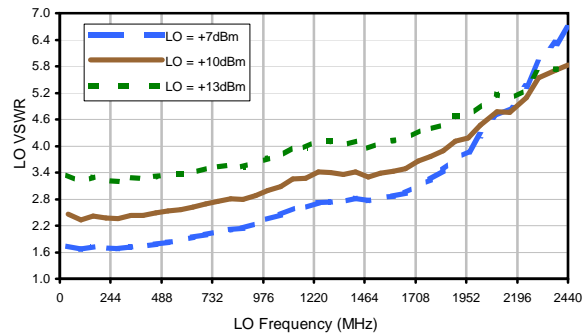
RF-IF Isolation



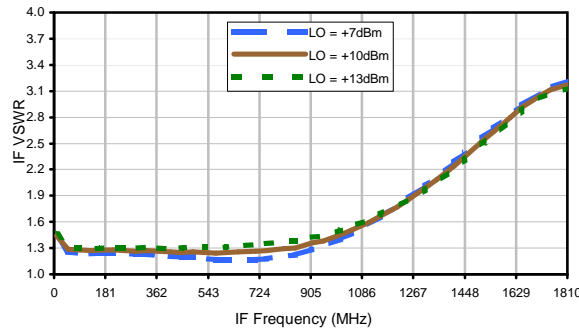
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	20	19	33	12	23	26	38	38	47
1	-	10	+0	27	23	21	36	29	37	34	43	47
2	79	56	47	59	49	46	43	55	37	51	46	60
3	> 90	50	52	70	51	58	56	49	64	61	64	59
4	> 90	72	67	> 73	63	71	63	70	66	71	60	70
5	> 90	> 73	> 73	> 73	> 73	72	> 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: 1005.00 MHz; -10.00 dBm.
 LO IN: 1035.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -17.29 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	27	28	41	28	38	45	50	55	60
1	-	10	+0	28	22	27	38	36	42	51	53	64
2	59	40	48	42	47	49	44	49	37	47	50	58
3	> 90	33	36	56	34	47	50	37	52	46	53	53
4	> 90	60	58	61	56	57	64	52	52	57	47	59
5	> 90	55	67	54	58	65	51	60	55	49	68	60
6	> 90	70	67	71	72	76	61	66	62	64	62	78
7	> 90	76	75	63	76	65	67	69	59	67	66	58
8	> 90	78	78	75	80	80	72	75	68	72	68	71
9	> 90	> 82	> 82	> 82	> 82	71	> 82	72	72	78	67	74
10	> 90	> 82	> 82	> 82	> 82	80	> 82	> 82	74	76	74	74
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1005.00 MHz; .00 dBm.
 LO IN: 1035.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -7.50 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.