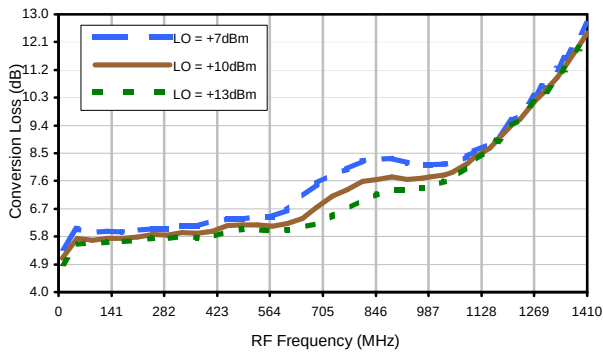


Frequency Mixer

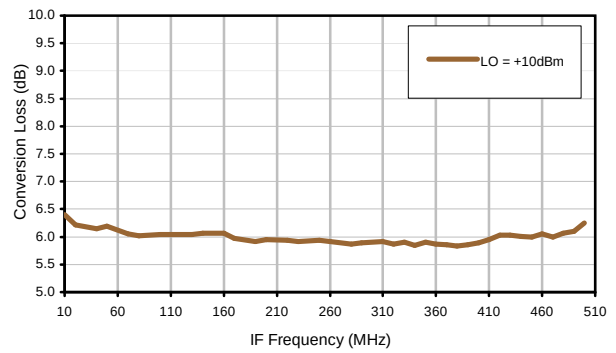
ADE-R2ASKLH+

Typical Performance Curves

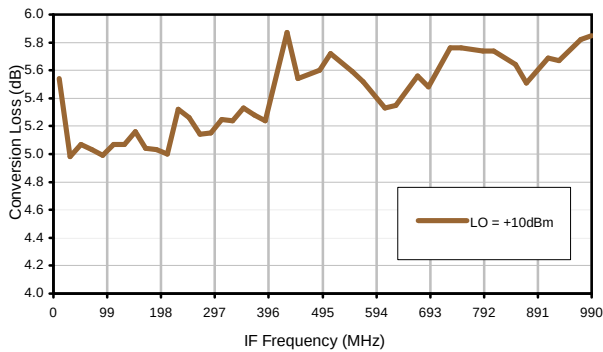
Conversion Loss @ IF=30MHz



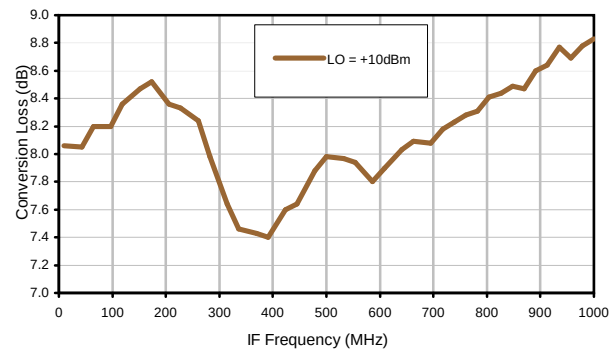
Conversion Loss vs. IF @ RF=510.1 MHz



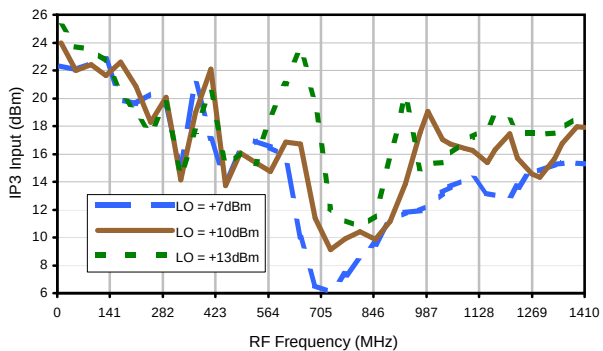
Conversion Loss vs. IF @ RF=10MHz



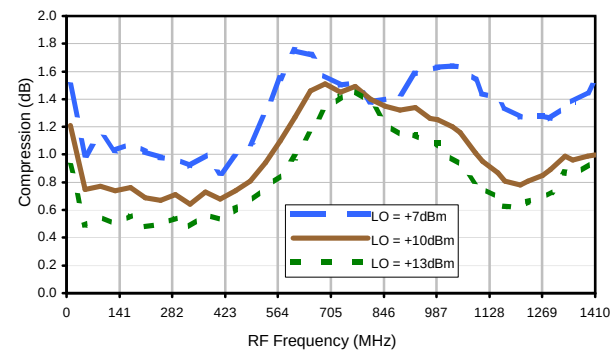
Conversion Loss vs. IF @ RF=1010.1MHz



IP3 Input

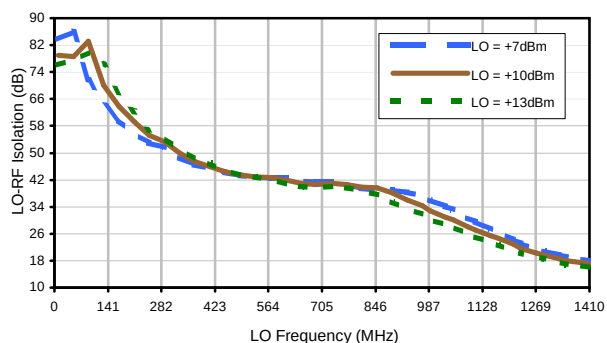


Compression @ RF IN=+5dBm

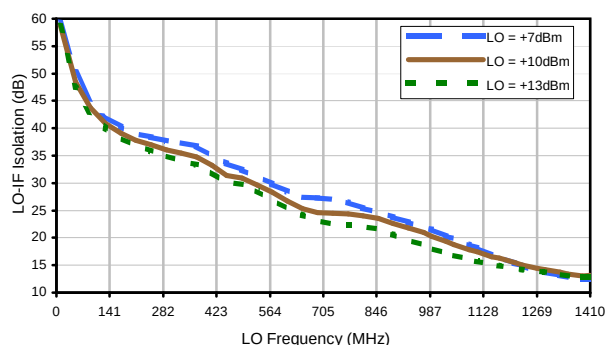


Typical Performance Curves

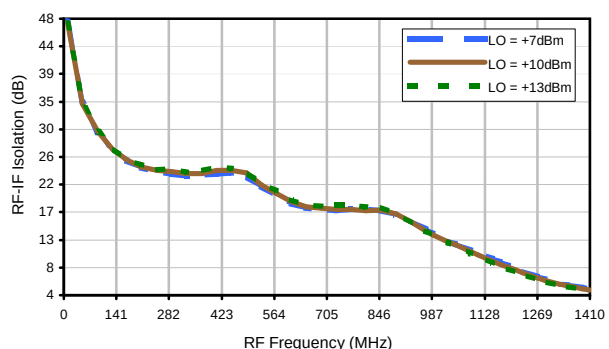
LO-RF Isolation



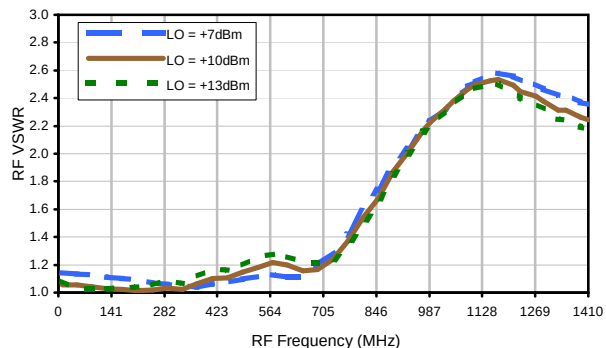
LO-IF Isolation



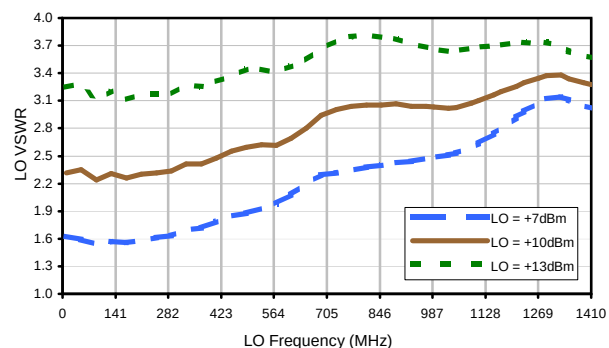
RF-IF Isolation



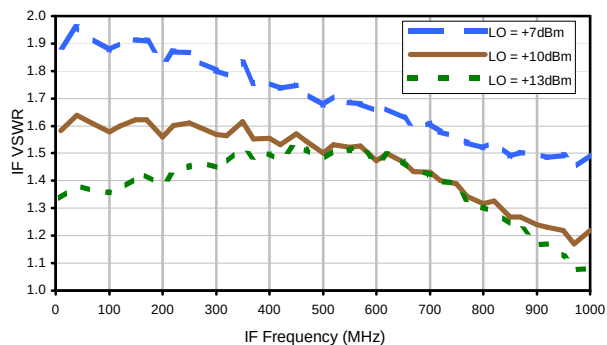
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	3	17	9	36	17	30	48	33	40	54
1	-	15	+0	34	12	28	41	42	39	35	46	46
2	87	55	39	54	39	58	44	56	53	54	60	50
3	> 90	66	58	60	57	62	56	67	65	> 73	68	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: 501.00 MHz; -10.00 dBm.
LO IN: 531.01 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -16.55 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	28	22	44	31	43	54	58	50	60
1	-	15	+0	33	12	30	38	45	45	42	62	56
2	66	58	34	56	33	53	38	54	44	53	56	55
3	> 90	47	38	46	40	52	40	50	57	59	55	54
4	> 90	69	34	67	48	> 83	48	56	55	59	64	60
5	> 90	70	68	64	56	58	52	60	53	72	65	78
6	> 90	> 83	75	> 83	78	69	64	66	60	70	70	75
7	> 90	> 83	> 83	> 83	> 83	> 83	69	73	67	75	67	77
8	> 90	78	> 83	> 83	> 83	> 83	80	83	69	77	67	79
9	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	82	> 83
10	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	83	> 83	78	83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 501.00 MHz; .00 dBm.
LO IN: 531.01 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -6.58 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.

REV. X2
ADE-R2ASKLH+
101013
Page 3 of 3