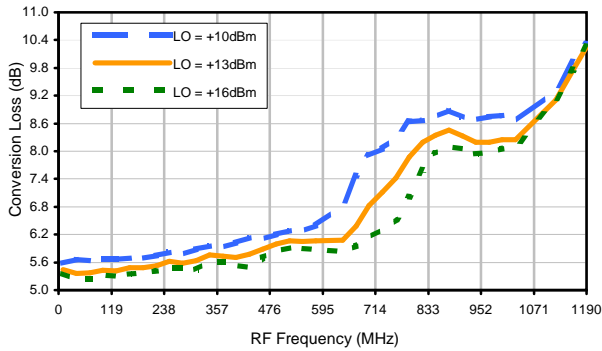


Frequency Mixer

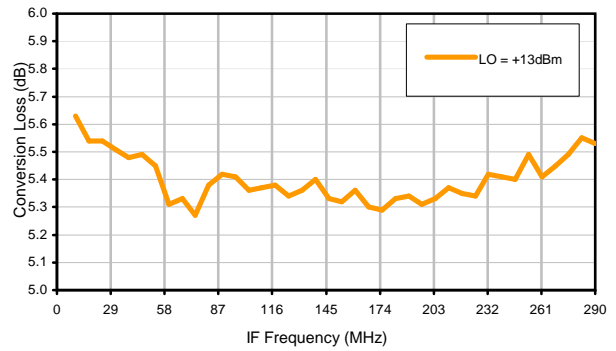
ADE-1MHW+

Typical Performance Curves

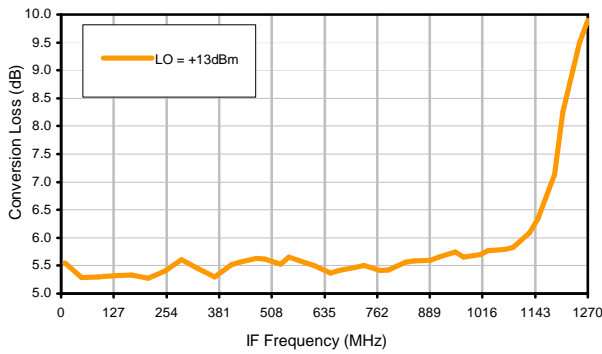
Conversion Loss @ IF=30MHz



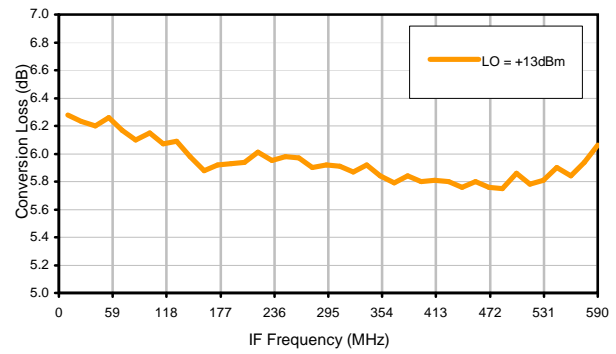
Conversion Loss vs. IF @ RF=300.1MHz



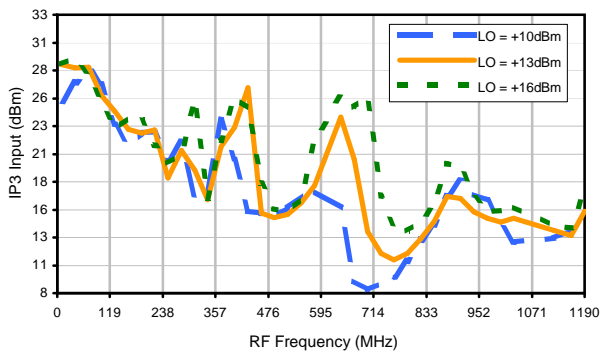
Conversion Loss vs. IF @ RF=10.1MHz



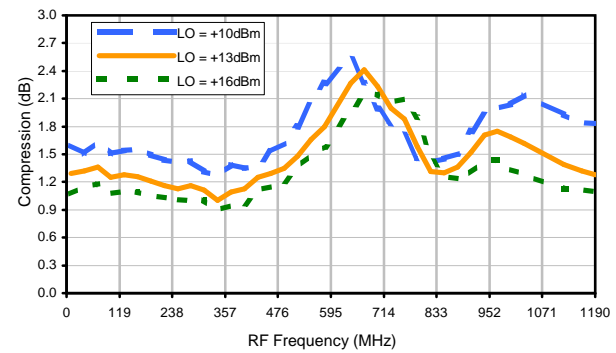
Conversion Loss vs. IF @ RF=600.1MHz



IP3 Input

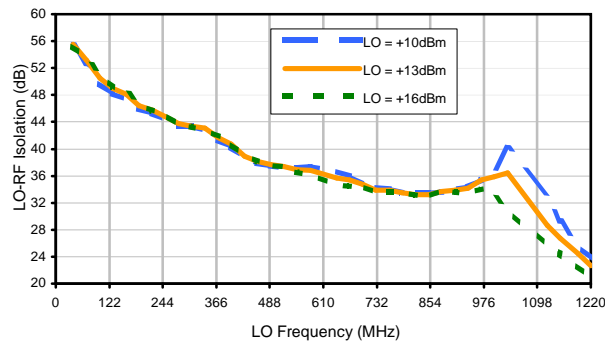


Compression @ RF IN=+9dBm

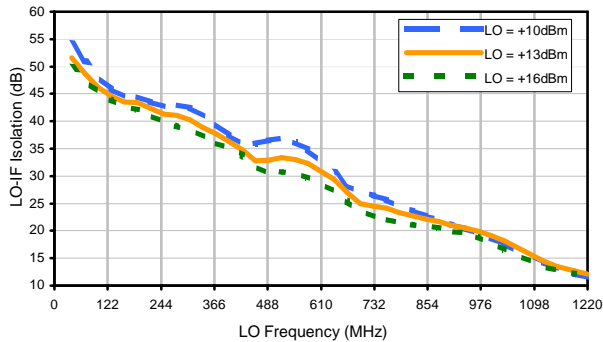


Typical Performance Curves

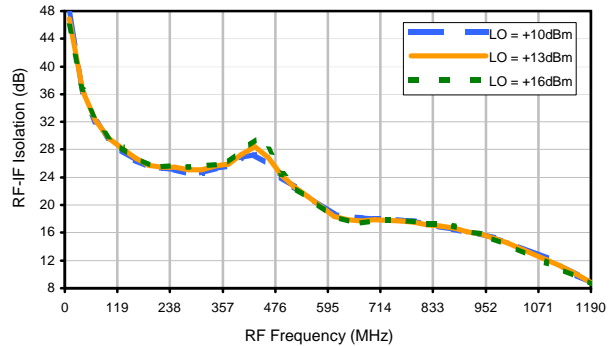
LO-RF Isolation



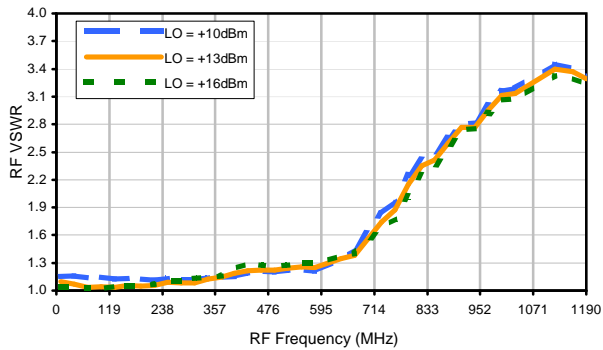
LO-IF Isolation



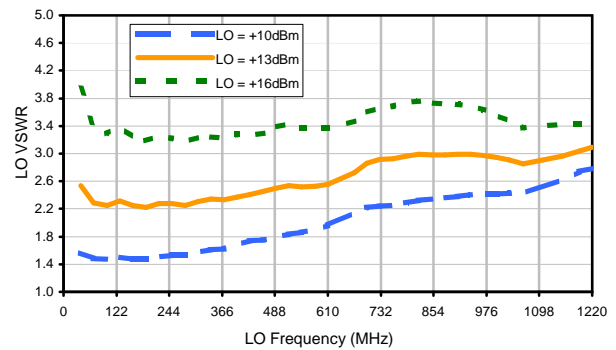
RF-IF Isolation



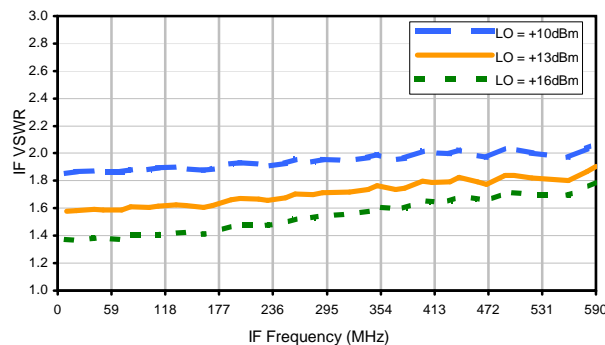
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	14	25	12	37	15	36	32	45	30	55
1	-	20	+0	29	11	44	19	35	40	42	43	46
2	77	59	47	62	48	56	44	58	50	65	62	66
3	>90	64	60	64	56	71	54	63	57	71	64	78
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>90	>78	>78	>78	>78	>78	>78	>78	77	>78	>78	>78
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 300.1 MHz; -6.00 dBm.
 LO IN: 330.1 MHz; +13.00 dBm
 IF OUT: 30 MHz; -11.6 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	22	36	23	48	28	50	42	63	46	64
1	-	21	+0	30	11	43	20	41	37	49	47	55
2	57	63	42	65	44	62	39	65	45	66	57	69
3	84	49	41	50	42	51	39	51	42	51	58	55
4	>90	66	58	63	59	64	58	62	52	63	60	70
5	>90	75	75	71	49	67	47	73	46	62	50	70
6	>90	82	73	73	76	73	88	74	71	70	75	70
7	>90	>88	72	76	61	69	67	77	68	85	58	82
8	>90	>88	>88	>88	81	80	76	82	74	>88	71	81
9	>90	>88	>88	>88	78	>88	70	76	80	82	75	80
10	>90	>88	>88	>88	>88	>88	>88	>88	85	86	87	88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 300.1 MHz; 4.00 dBm.
 LO IN: 330.1 MHz; +13.00 dBm
 IF OUT: 30 MHz; -1.58 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.