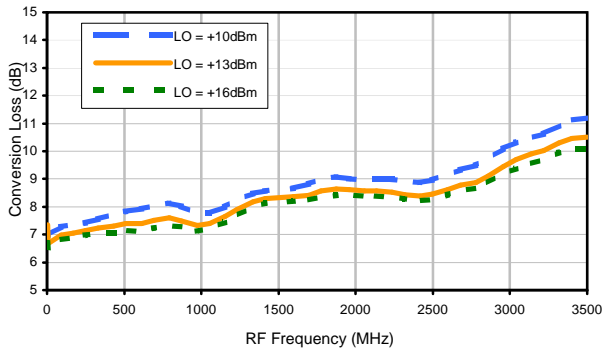


# Frequency Mixer

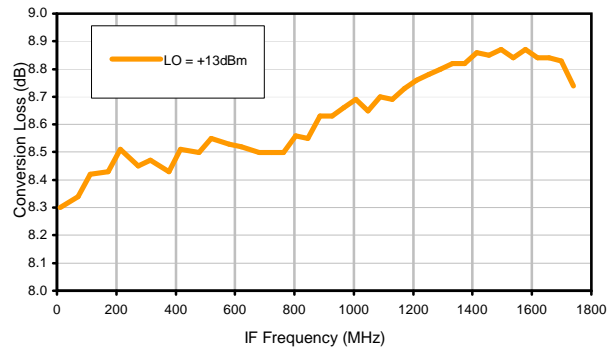
# ADE-35MH+

## Typical Performance Curves

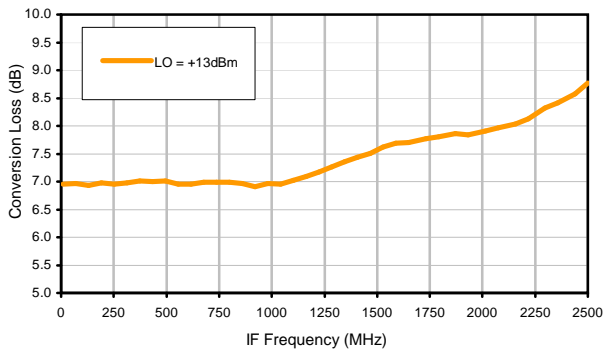
Conversion Loss @ IF=30MHz



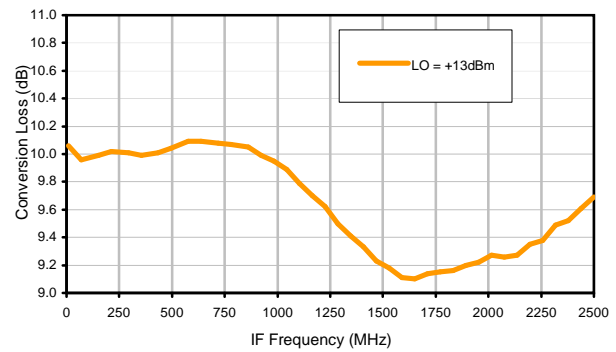
Conversion Loss vs. IF @ RF=1750.1MHz



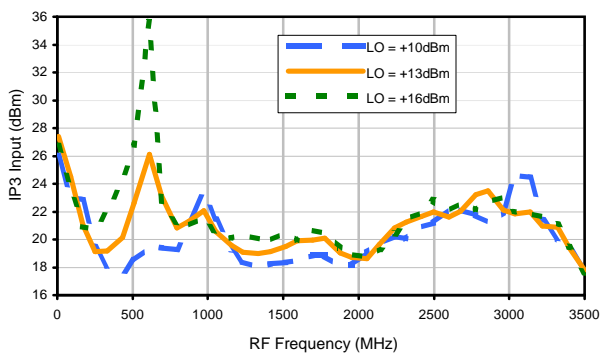
Conversion Loss vs. IF @ RF=10.1MHz



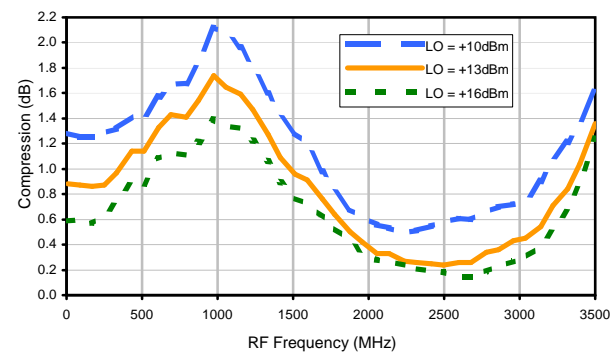
Conversion Loss vs. IF @ RF=3500.1MHz



IP3 Input



Compression @ RF IN=+9dBm



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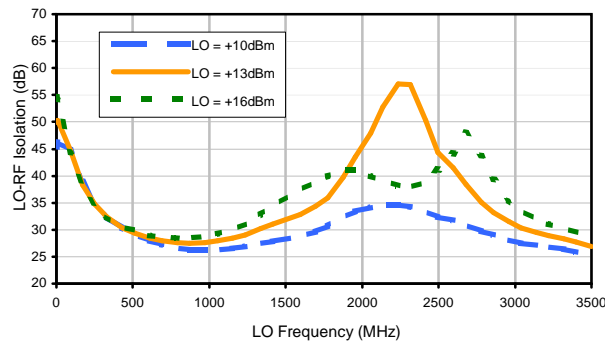


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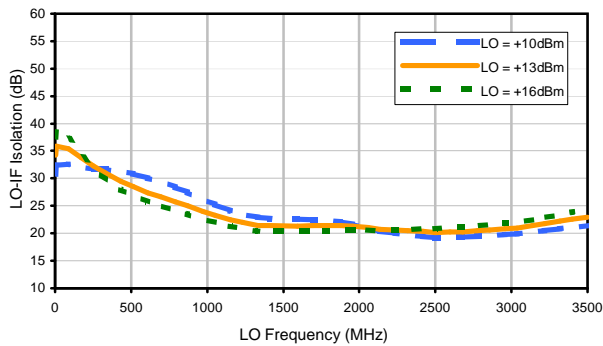


## Typical Performance Curves

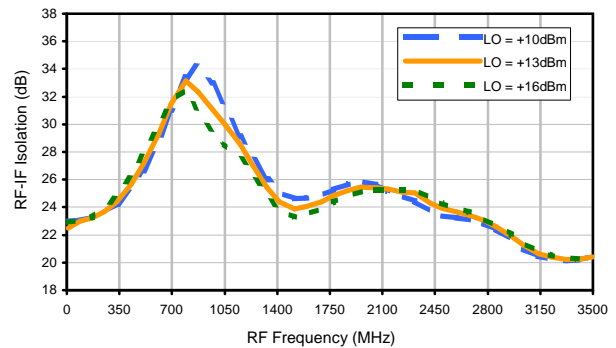
LO-RF Isolation



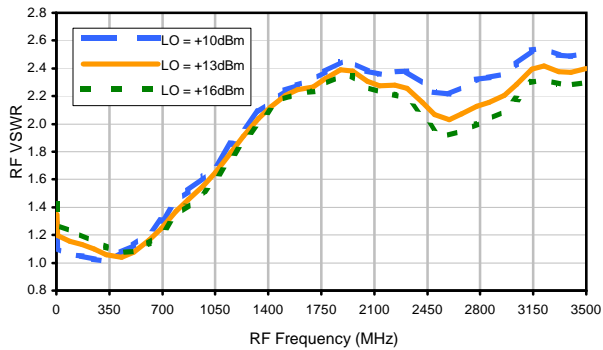
LO-IF Isolation



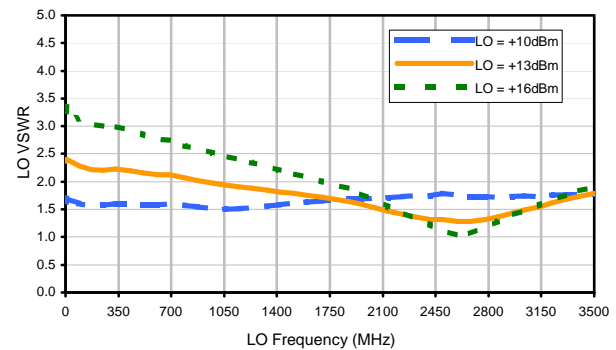
RF-IF Isolation



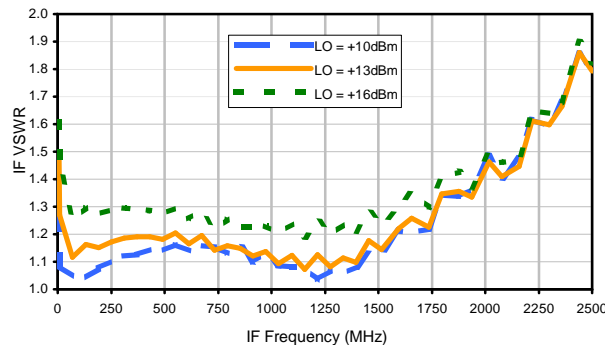
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	3	15	19	30	31	42	36	57	50	62
1	-	17	+0	29	16	34	22	39	33	45	40	49
2	74	40	43	35	49	40	43	49	42	46	47	56
3	>100	53	37	58	41	58	45	60	43	52	47	54
4	>100	56	52	53	55	49	67	52	55	52	59	68
5	92	68	70	72	57	79	55	79	58	69	58	67
6	>100	75	74	76	68	66	68	61	68	63	70	62
7	95	77	89	77	80	75	76	75	69	79	69	81
8	98	92	84	>95	92	90	82	74	84	70	81	73
9	>100	95	>95	90	>95	94	91	83	89	82	81	84
10	99	>95	>95	>95	>95	>95	93	>95	86	85	87	80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1750.1 MHz; 4.00 dBm.  
 LO IN: 1780.01 MHz; +13.00 dBm  
 IF OUT: 29.91 MHz; -4.51 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+6	5	8	16	18	26	22	35	31	51
1	-	17	+0	29	16	32	19	35	30	39	35	40
2	85	47	49	43	70	46	52	46	49	58	52	65
3	>100	70	58	84	61	>86	63	74	62	71	65	70
4	>100	>86	>86	81	>86	76	>86	79	>86	77	>86	>86
5	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
6	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
7	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
8	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
9	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
10	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1750.1 MHz; -6.00 dBm.  
 LO IN: 1780.01 MHz; +13.00 dBm  
 IF OUT: 29.91 MHz; -14.46 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.

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