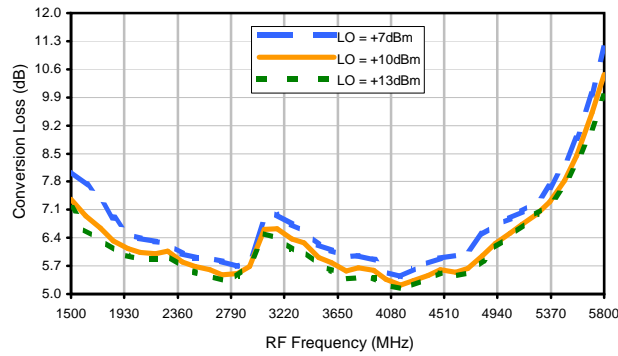


# Frequency Mixer

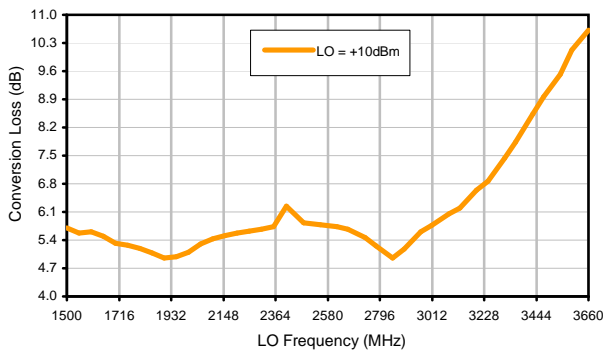
# MBA-18LH+

## Typical Performance Curves

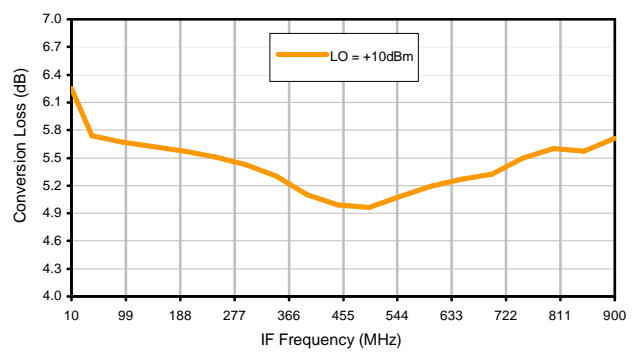
### Conversion Loss @ IF=30MHz



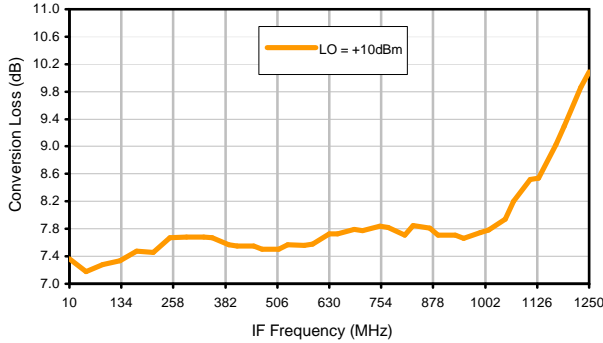
### Conversion Loss vs. LO @ RF=2400MHz



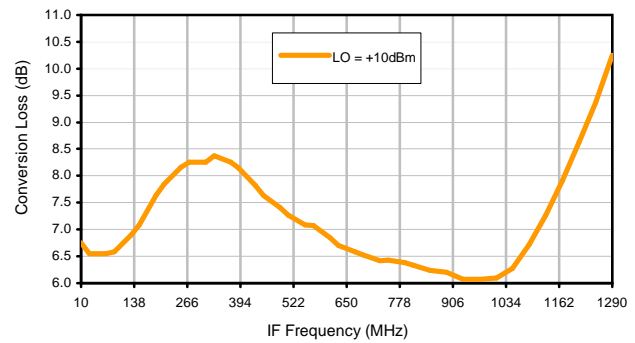
### Conversion Loss vs. IF @ RF=2400MHz



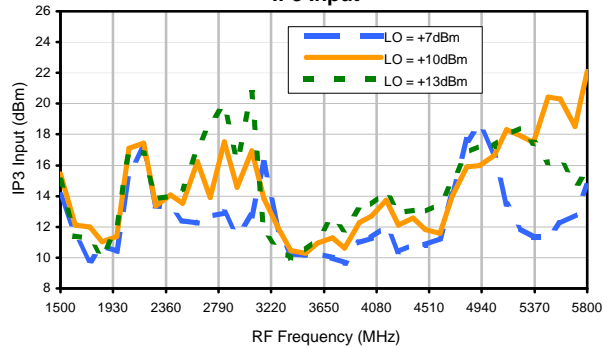
### Conversion Loss vs. IF @ RF=1589.9MHz



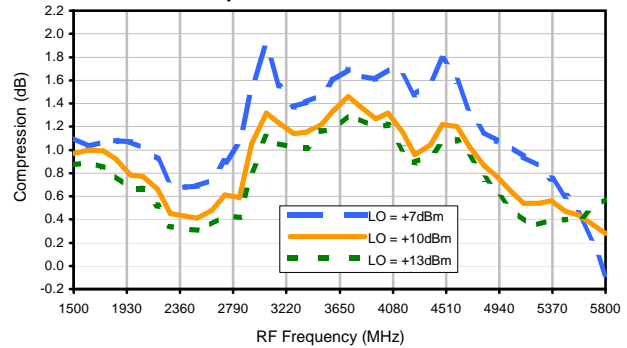
### Conversion Loss vs. IF @ RF=3210.1MHz



### IP3 Input

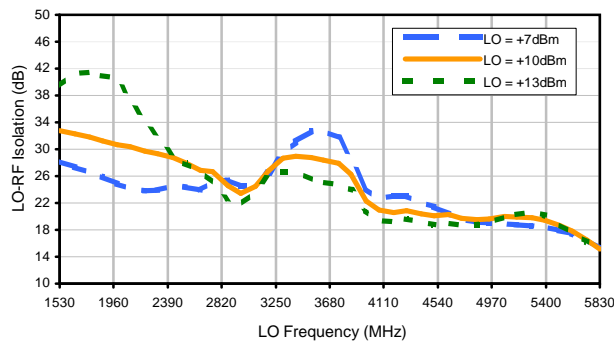


### Compression @ RF IN=+5dBm

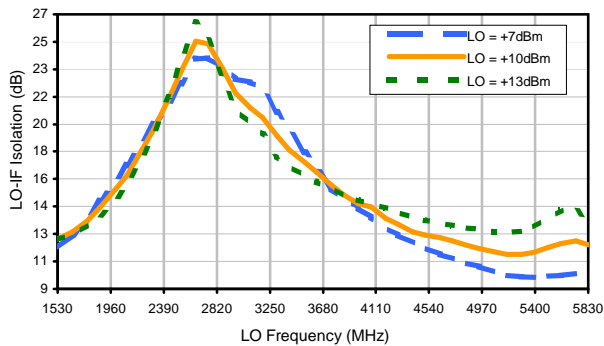


## Typical Performance Curves

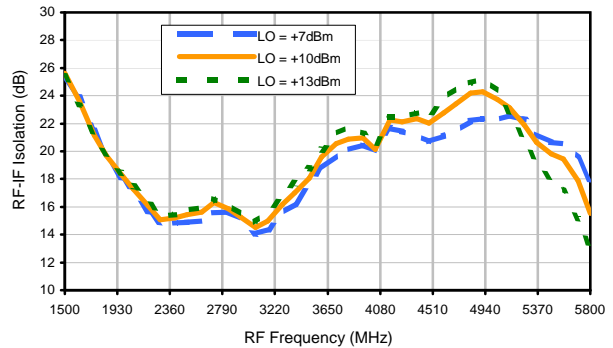
LO-RF Isolation



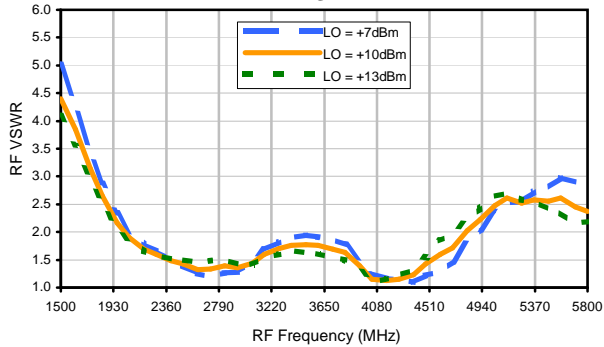
LO-IF Isolation



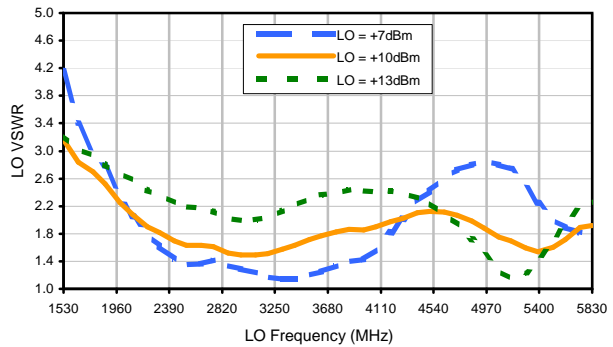
RF-IF Isolation



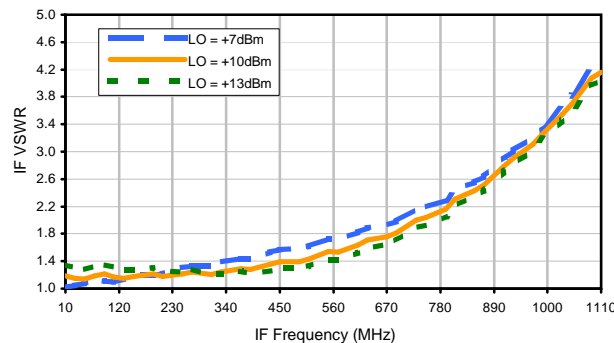
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	+4	7	1	15	9	33	33	40	39	---
1	-	9	+0	19	14	36	21	32	35	50	57	44
2	80	47	45	35	42	53	38	61	41	59	50	57
3	>90	60	62	62	>74	57	58	59	54	67	55	64
4	>90	>74	>74	>74	>74	65	>74	>74	74	72	69	>74
5	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
6	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
7	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
8	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
9	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
10	---	---	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 2400 MHz; -10.00 dBm.  
 LO IN: 2430 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -15.96 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	6	17	12	31	22	42	74	55	56	---
1	-	9	+0	20	15	37	24	36	51	53	52	57
2	60	36	40	29	35	50	34	46	37	51	54	57
3	>90	42	46	43	49	38	41	45	40	54	48	54
4	>90	61	49	54	53	42	53	54	51	55	57	57
5	>90	64	61	62	69	61	52	57	64	54	57	55
6	>90	74	>84	70	64	73	68	55	68	67	65	59
7	>90	81	71	71	76	78	>84	>84	64	76	79	67
8	>90	>84	83	79	>84	>84	81	81	82	73	>84	>84
9	>90	>84	>84	>84	82	82	>84	81	>84	>84	77	>84
10	---	---	>84	>84	>84	>84	>84	>84	>84	>84	>84	82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 2400 MHz; 0.00 dBm.  
 LO IN: 2430 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -6.06 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.

