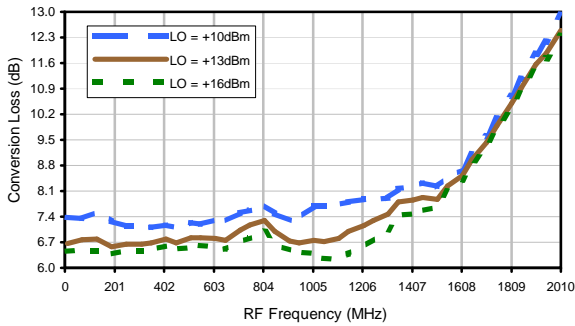


# Frequency Mixer

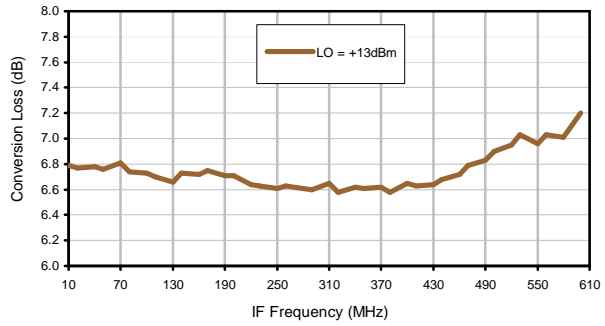
# ADE-R12MH+

## Typical Performance Curves

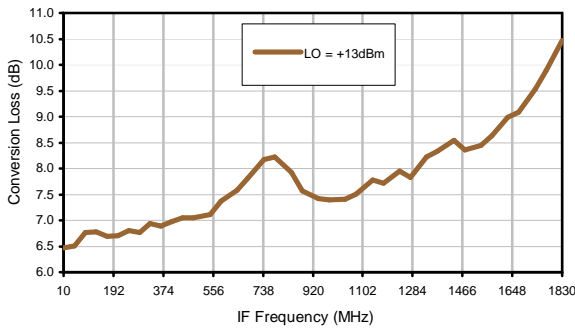
Conversion Loss @ IF=30MHz



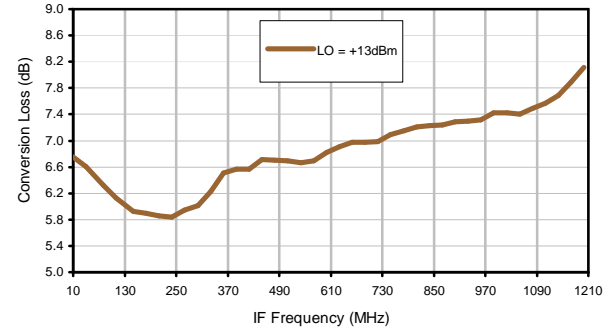
Conversion Loss vs. IF @ RF=610.1MHz



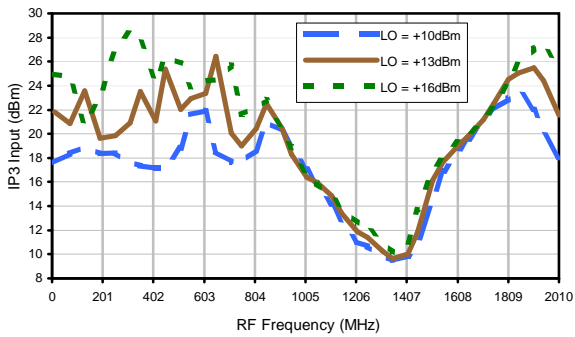
Conversion Loss vs. IF @ RF=10MHz



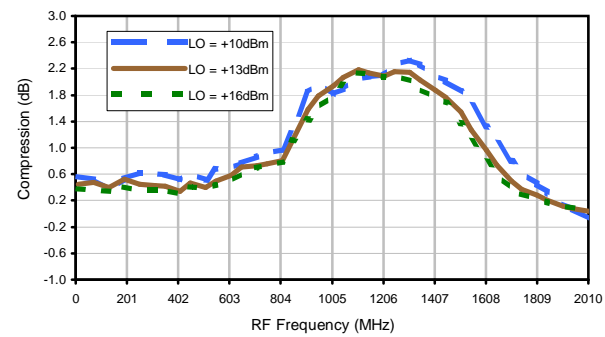
Conversion Loss vs. IF @ RF=1210.1MHz



IP3 Input



Compression @ RF IN=+9dBm



REV. X2  
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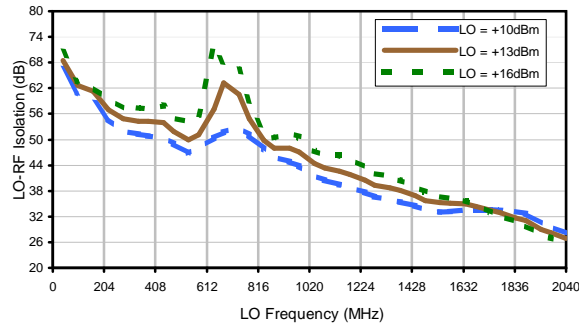


The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

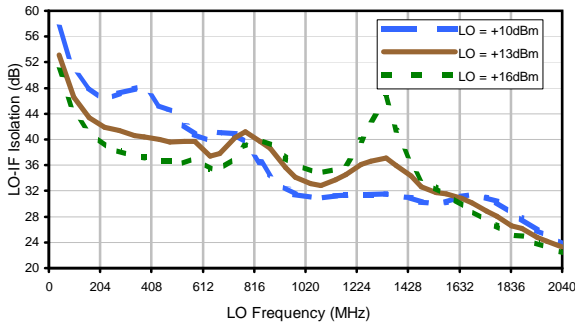


## Typical Performance Curves

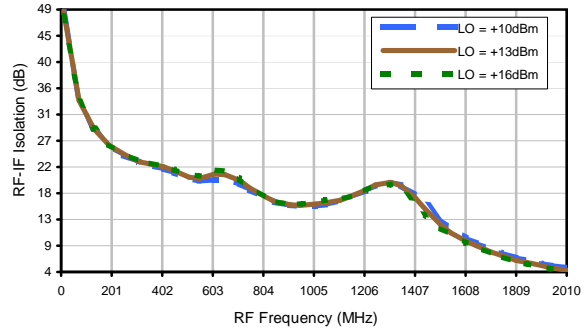
LO-RF Isolation



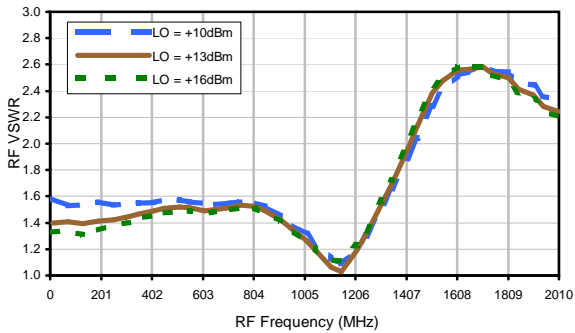
LO-IF Isolation



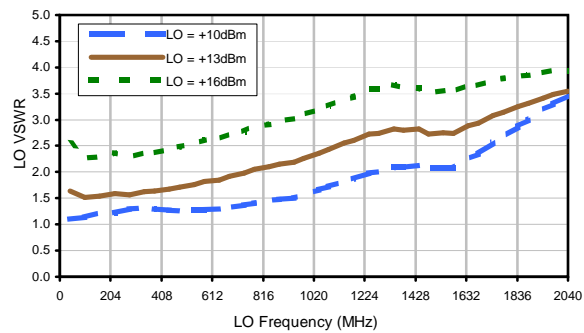
RF-IF Isolation



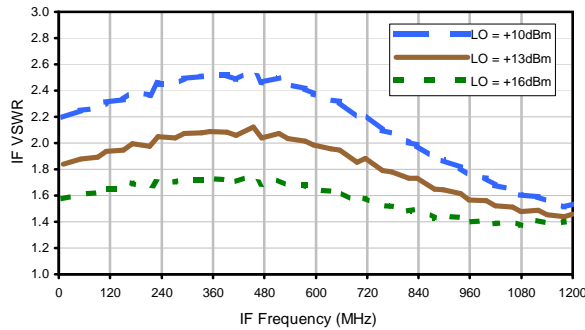
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	26	13	26	19	47	21	40	39	54
1	-	14	+0	34	12	32	29	41	52	37	50	48
2	74	58	53	56	53	67	56	72	62	74	59	72
3	>90	65	64	66	67	67	66	72	>77	>77	>77	>77
4	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
5	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
6	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
7	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
8	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
9	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
10	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 605 MHz; -6.00 dBm.  
 LO IN: 635 MHz; +13.00 dBm  
 IF OUT: 30 MHz; -12.85 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	36	24	37	31	59	33	53	53	69
1	-	15	+0	32	12	32	30	43	54	41	56	54
2	54	52	45	57	43	55	44	61	53	68	51	69
3	84	43	43	49	48	49	43	71	64	63	66	55
4	>90	74	63	59	68	59	62	61	64	75	75	77
5	>90	70	74	71	57	64	59	70	58	61	73	75
6	>90	>87	>87	84	73	75	70	76	68	71	72	>87
7	>90	>87	>87	>87	81	78	71	74	73	71	73	85
8	>90	>87	>87	>87	>87	>87	81	82	>87	80	78	81
9	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>90	>87	>87	>87	>87	>87	>87	>87	>87	86	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 605 MHz; 4.00 dBm.  
 LO IN: 635 MHz; +13.00 dBm  
 IF OUT: 30 MHz; -2.85 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.