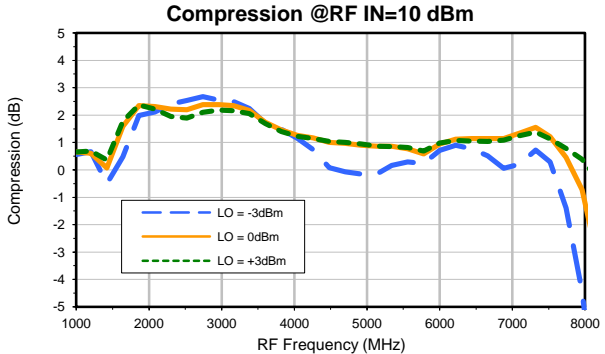
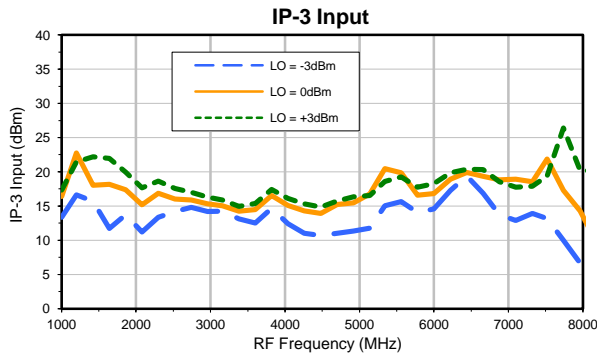
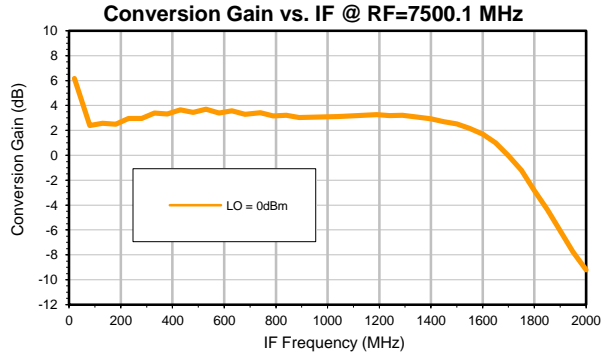
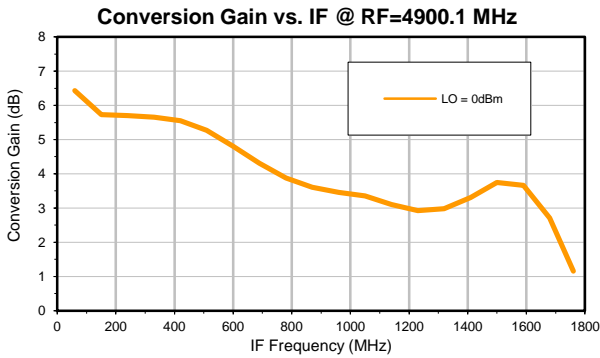
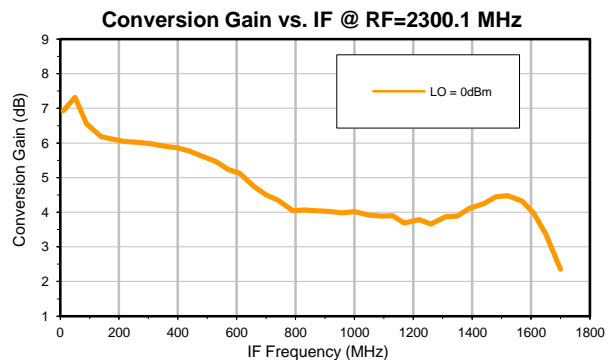
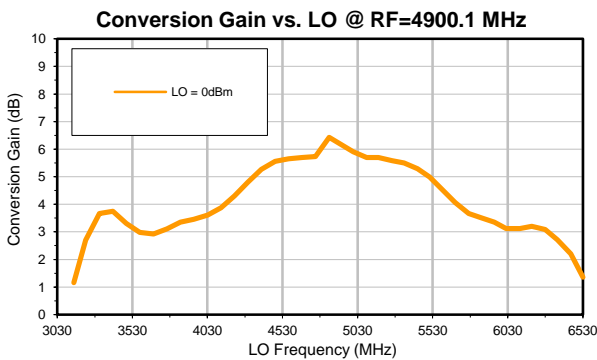
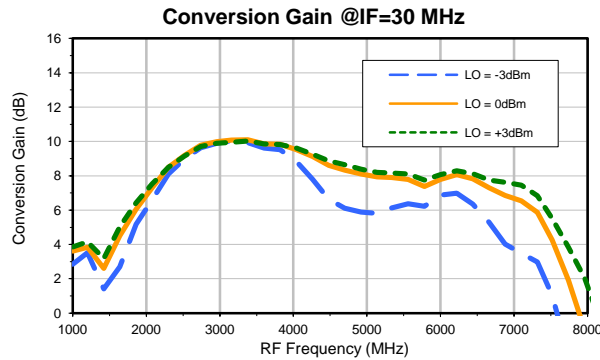


# Wideband Double Balanced Mixer-Amplifier

## Typical Performance Curves

MDA4-752H+



P.O. Box 350166, Brooklyn, New York 11235-0003 • Fax (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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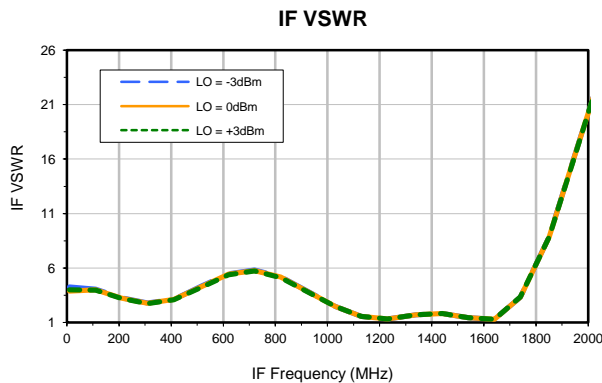
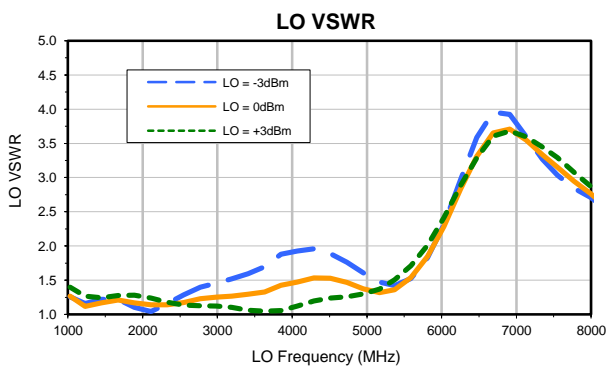
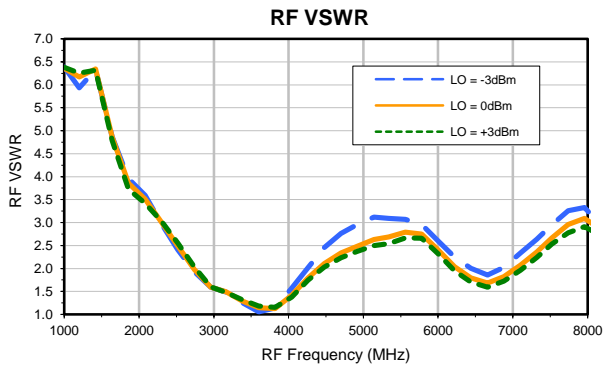
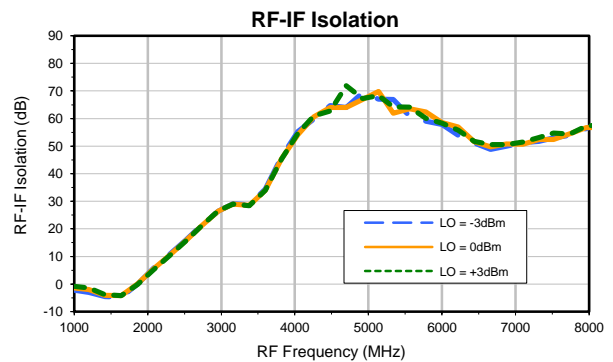
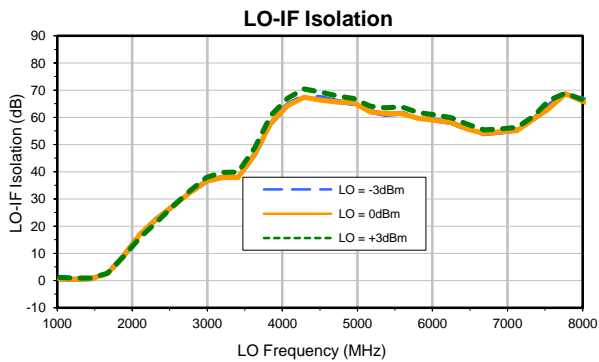
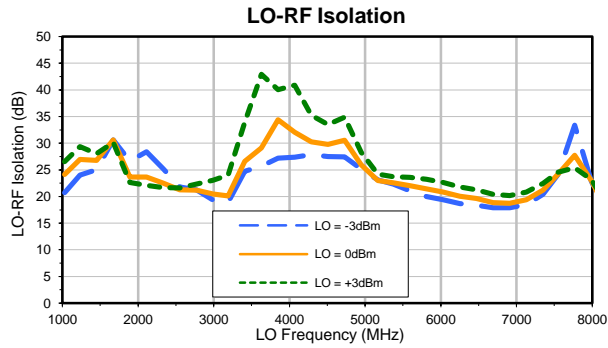
IF/RF MICROWAVE COMPONENTS

REV. OR  
MADA4-752H+  
1/26/2015  
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# Wideband Double Balanced Mixer-Amplifier

## Typical Performance Curves

MDA4-752H+



## Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
	RF CAL	0	1	2	3	4	5	6	7	8	9	10
0	---	---	62.97	76.13	56.11	59.52	65.19	---	---	---	---	---
1	---	75.76	---	99.40	103.05	70.24	97.58	92.61	---	---	---	---
2	116.22	104.13	103.43	62.14	106.55	101.63	101.66	98.20	94.13	---	---	---
3	115.35	99.82	104.16	104.49	70.53	104.70	102.05	102.75	97.14	95.24	93.27	---
4	109.79	98.09	100.72	103.04	103.66	106.14	102.67	104.83	101.59	99.56	95.85	---
5	110.96	97.39	97.90	102.18	103.37	102.95	101.62	104.73	103.59	98.58	97.97	95.39
6	107.35	---	94.02	98.61	102.89	103.78	103.17	99.61	103.61	103.14	101.77	98.04
7	107.94	---	---	96.64	96.30	102.04	103.95	102.22	97.28	102.66	103.32	98.91
8	108.10	---	---	---	98.01	98.58	100.99	102.36	104.30	101.67	102.71	103.58
9	108.61	---	---	---	---	96.78	98.48	103.27	102.66	104.17	102.18	102.85
10	105.11	---	---	---	---	---	96.74	97.92	102.98	105.23	104.02	108.05

## LO HARMONICS ORDER

Test conditions: RF IN: 4600.1 MHz; -15 dBm.  
LO IN: 4630.1 MHz; 0 dBm  
IF OUT: 30 MHz; -6.58 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
	RF CAL	0	1	2	3	4	5	6	7	8	9	10
0	---	---	73.01	85.89	66.05	69.14	75.99	---	---	---	---	---
1	---	76.23	---	97.03	107.77	70.35	97.11	98.56	---	---	---	---
2	102.04	109.87	112.49	51.33	114.12	111.83	104.19	101.15	102.49	---	---	---
3	110.23	103.44	110.51	113.48	52.05	111.14	110.91	106.31	106.34	103.12	102.33	---
4	107.47	105.95	109.60	111.57	109.83	73.91	111.38	111.84	110.72	106.67	100.83	---
5	105.63	102.63	106.87	107.33	111.42	110.20	79.84	112.41	110.97	108.80	105.73	103.15
6	102.94	---	106.84	107.49	108.02	112.01	112.72	90.84	111.77	113.29	108.12	105.73
7	103.85	---	---	103.29	106.15	109.99	112.08	108.75	94.49	110.83	111.10	108.65
8	104.68	---	---	---	103.68	105.93	109.26	110.69	112.10	101.11	111.84	111.24
9	103.58	---	---	---	---	103.97	106.13	107.59	112.47	110.71	101.05	110.06
10	104.42	---	---	---	---	---	102.45	107.06	112.35	111.62	112.62	111.85

## LO HARMONICS ORDER

Test conditions: RF IN: 4600.1 MHz; -5 dBm.  
LO IN: 4630.1 MHz; 0 dBm  
IF OUT: 30 MHz; 3.27dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT  
2. + entry denotes harmonics are in (dBc) above IF OUTPUT  
3. RF Cal represents the Harmonics level of the RF Input Signal to the mixer