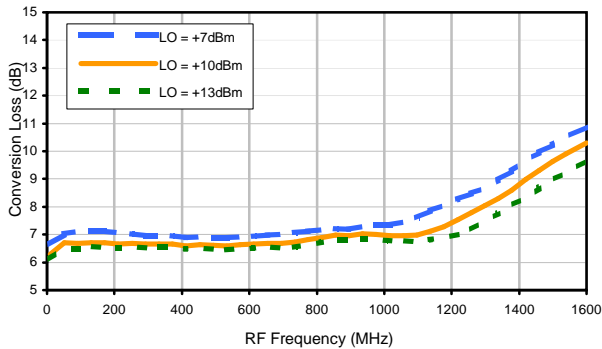


# Frequency Mixer

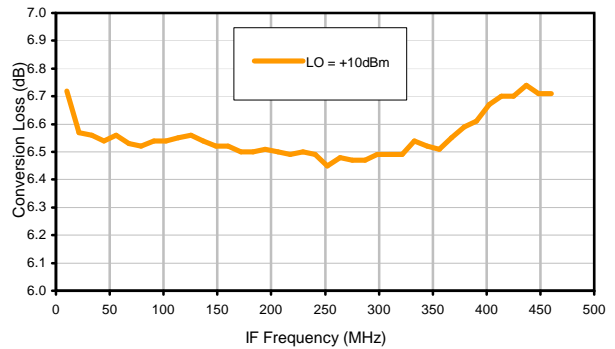
# JMS-2LH

## Typical Performance Curves

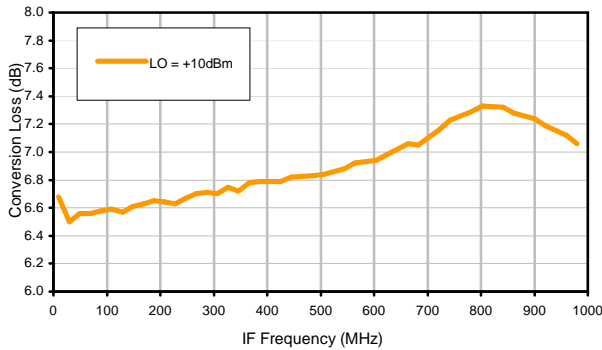
Conversion Loss @ IF=30MHz



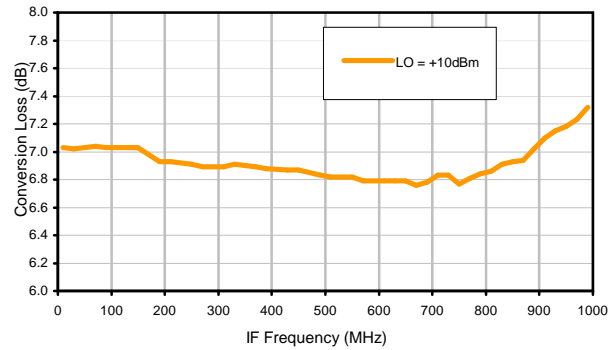
Conversion Loss vs. IF @ RF=500.1MHz



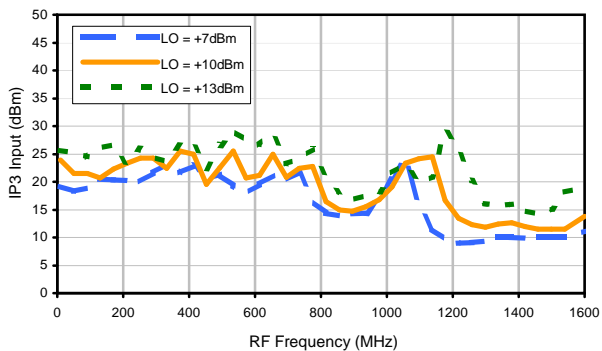
Conversion Loss vs. IF @ RF=10.1MHz



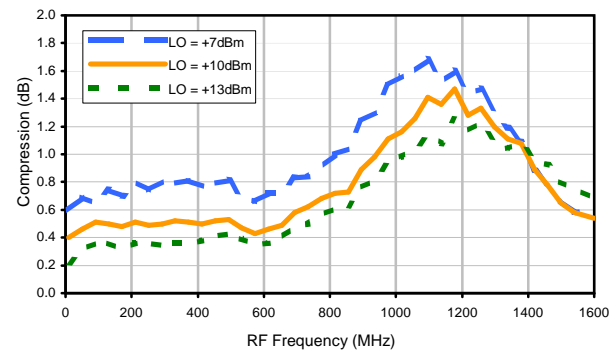
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

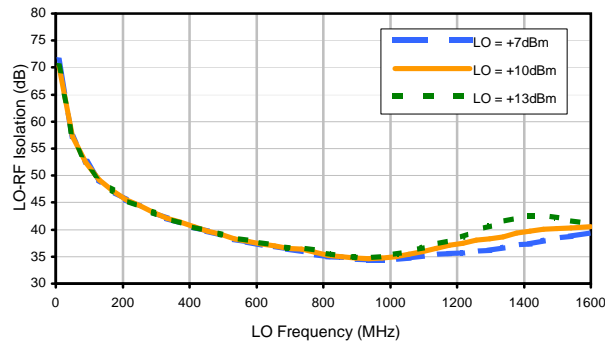


Compression @ RF IN=+5dBm

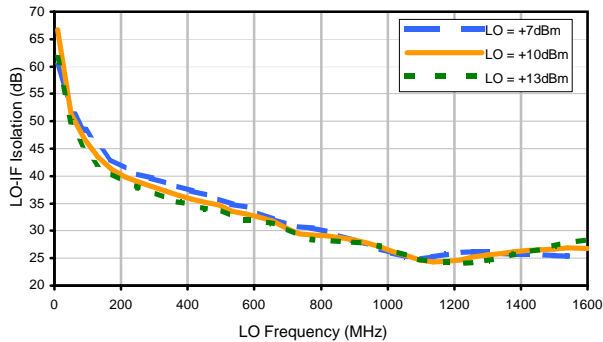


## Typical Performance Curves

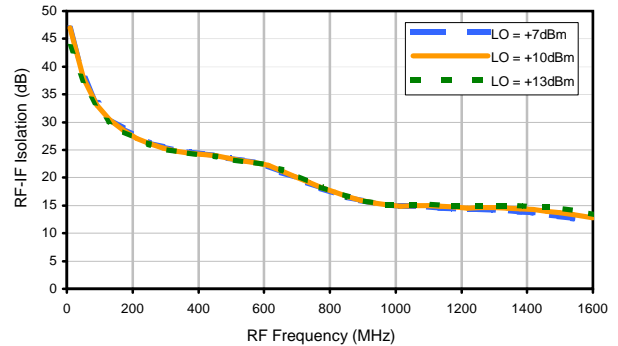
LO-RF Isolation



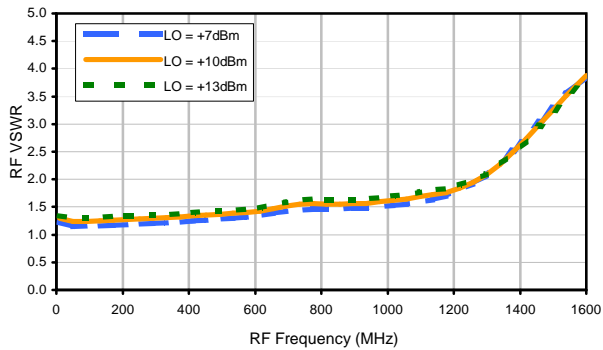
LO-IF Isolation



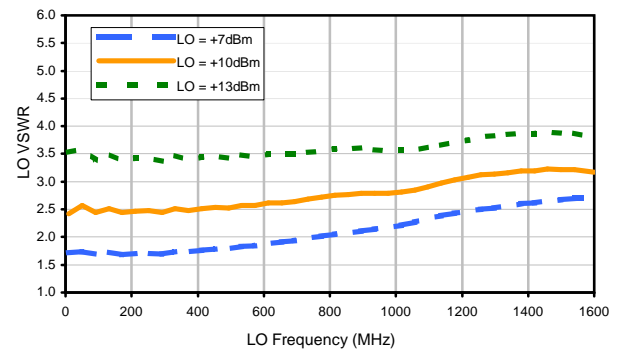
RF-IF Isolation



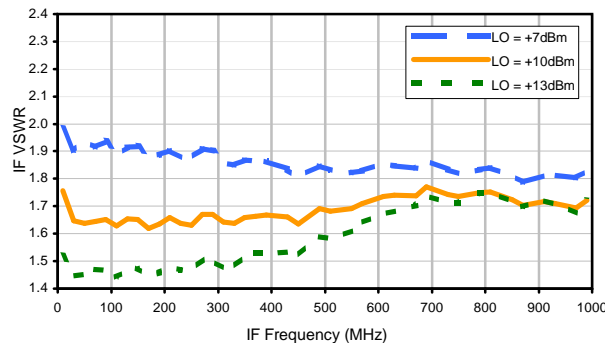
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	30	28	40	34	45	30	50	34	56
1	-	16	+0	33	12	45	18	35	37	43	45	50
2	90	72	42	60	41	68	42	66	45	62	42	63
3	>100	49	48	52	61	51	45	54	53	52	53	53
4	>100	71	58	70	58	67	60	68	56	63	65	73
5	>100	68	64	71	59	74	56	70	55	71	54	72
6	>100	88	79	80	84	79	77	79	70	77	69	78
7	>100	84	83	92	74	81	77	84	79	80	78	78
8	>100	>93	>93	>93	>93	88	86	85	84	85	81	84
9	>100	>93	>93	>93	90	92	83	88	82	91	82	90
10	>100	>93	>93	>93	>93	>93	>93	>93	92	>93	89	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; 0.00 dBm.  
 LO IN: 530.01 MHz; +10.00 dBm  
 IF OUT: 29.91 MHz; -7.1 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	19	15	30	22	33	16	36	19	39
1	-	16	+0	33	12	43	18	32	40	37	38	44
2	>100	76	48	66	48	73	48	65	53	70	50	65
3	>100	67	68	71	69	71	60	82	64	77	65	74
4	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
5	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
6	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -10.00 dBm.  
 LO IN: 530.01 MHz; +10.00 dBm  
 IF OUT: 29.91 MHz; -16.7 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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