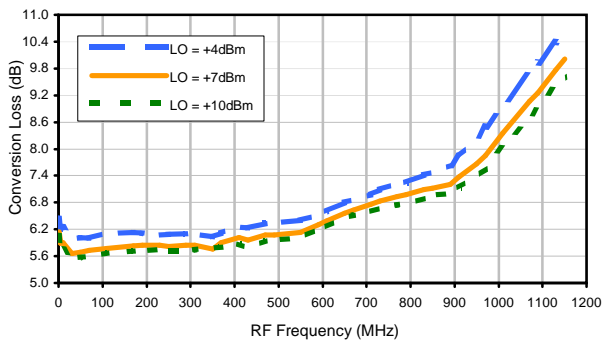


# Frequency Mixer

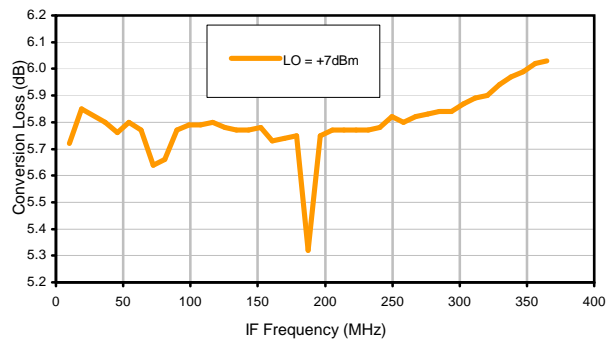
# LRMS-1WJ

## Typical Performance Curves

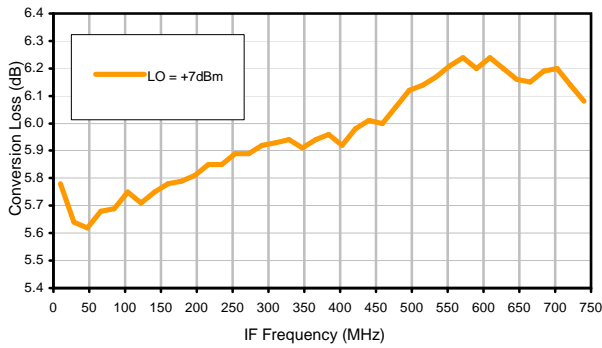
Conversion Loss @ IF=30MHz



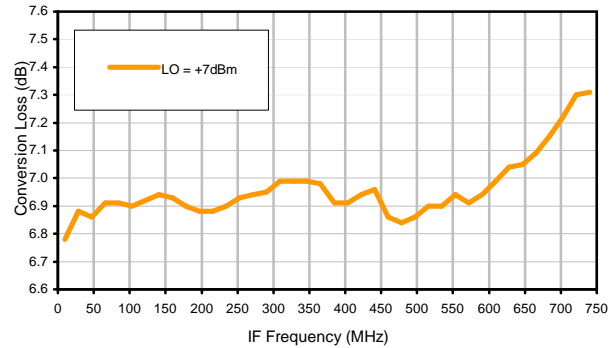
Conversion Loss vs. IF @ RF=375.1MHz



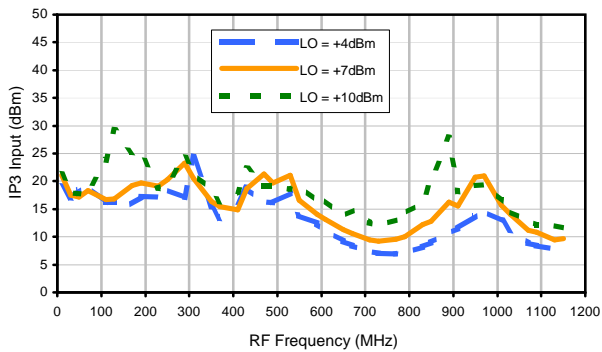
Conversion Loss vs. IF @ RF=10.1MHz



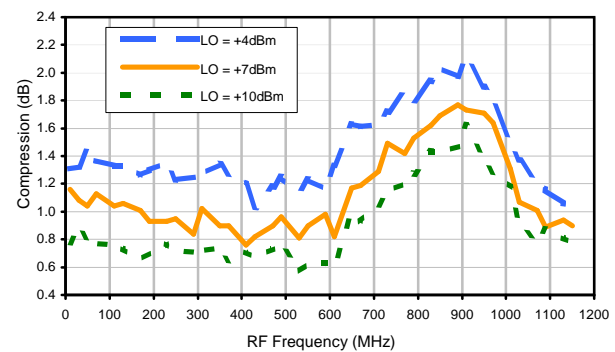
Conversion Loss vs. IF @ RF=750.1MHz



IP3 Input

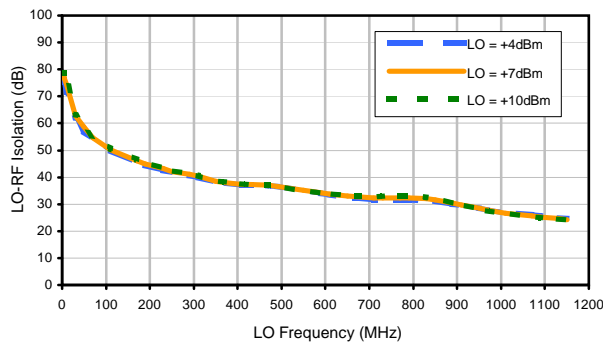


Compression @ RF IN=+1dBm

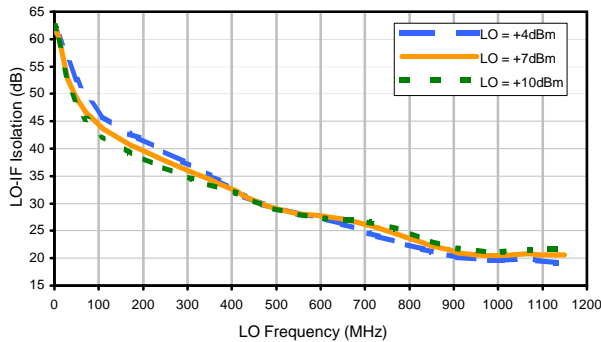


## Typical Performance Curves

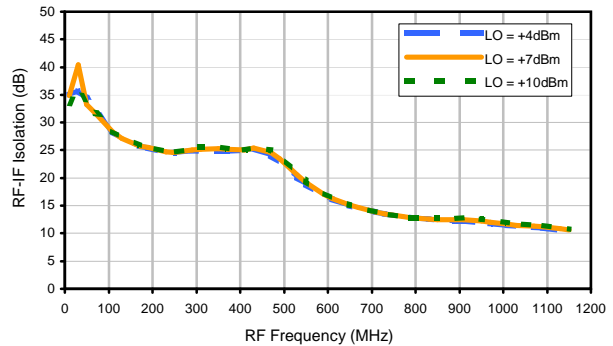
LO-RF Isolation



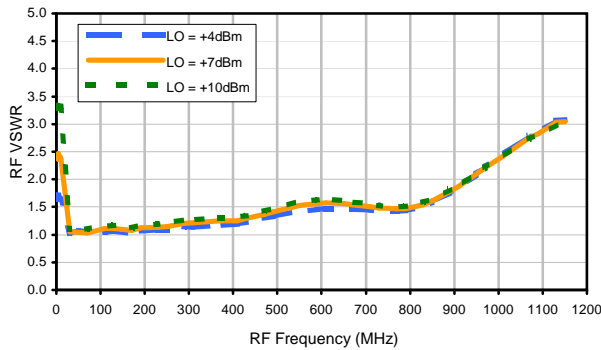
LO-IF Isolation



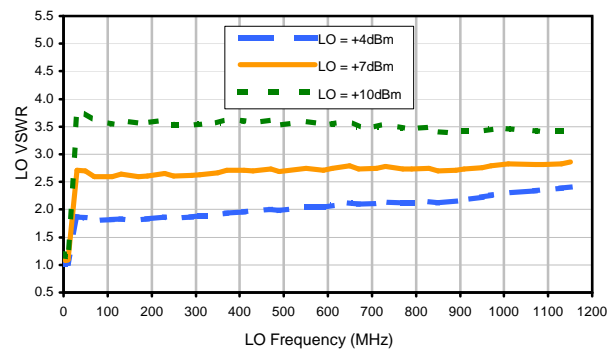
RF-IF Isolation



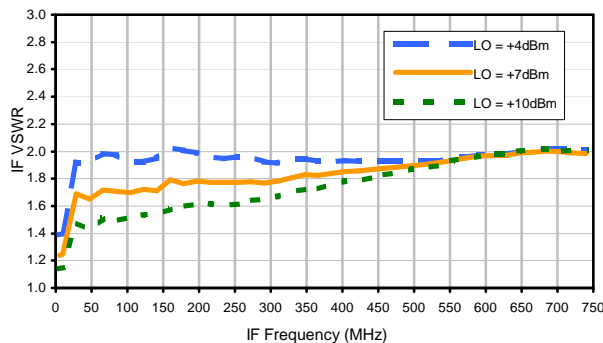
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	23	7	26	13	27	26	39	41	42
1	-	19	0	26	11	32	18	37	40	41	48	37
2	112	61	47	56	46	64	45	54	50	70	60	63
3	110	69	61	69	63	68	58	72	66	73	82	74
4	126	90	89	88	92	84	94	92	83	88	93	94
5	114	105	93	95	96	94	83	101	94	101	97	113
6	120	110	100	106	101	97	87	96	105	96	104	105
7	115	113	116	126	104	96	105	89	105	97	93	98
8	112	119	113	106	110	110	102	89	84	87	98	95
9	112	104	105	118	110	106	104	109	96	91	99	98
10	114	119	107	125	116	99	112	101	103	96	83	89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 370.1 MHz; -14.00 dBm.  
 LO IN: 400.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -20.05 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	32	19	43	25	40	39	52	60	63
1	-	19	0	28	12	32	19	41	41	47	52	45
2	112	53	39	52	39	56	40	50	45	55	52	66
3	121	56	44	54	46	51	40	67	44	54	61	57
4	114	62	69	63	58	63	56	77	50	62	60	77
5	113	83	64	66	59	71	56	79	56	67	62	76
6	123	95	73	81	77	81	77	83	72	85	90	81
7	119	81	90	85	72	76	73	79	75	78	70	85
8	113	98	109	97	91	90	93	93	98	89	82	94
9	109	99	101	96	100	93	84	86	84	86	84	90
10	113	99	103	108	112	116	96	94	94	98	97	102
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 370.1 MHz; -4.00 dBm.  
 LO IN: 400.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -10.06 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.

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 LRMS-1WJ  
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