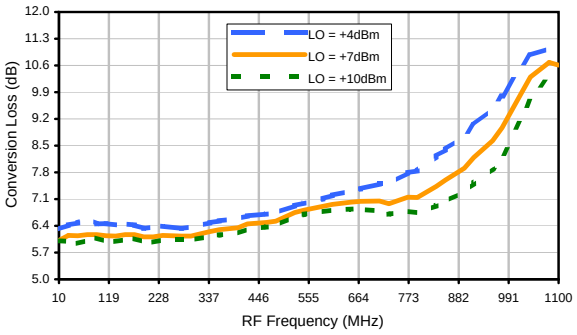
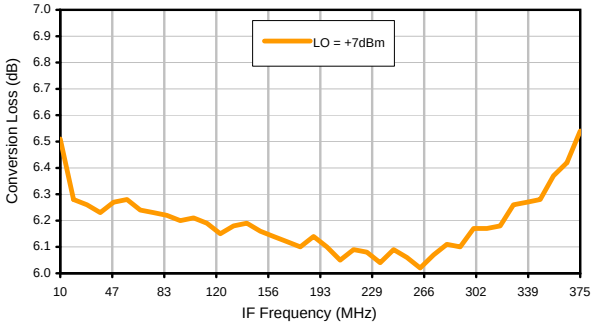
Frequency Mixer SRA-1W+

Typical Performance Curves

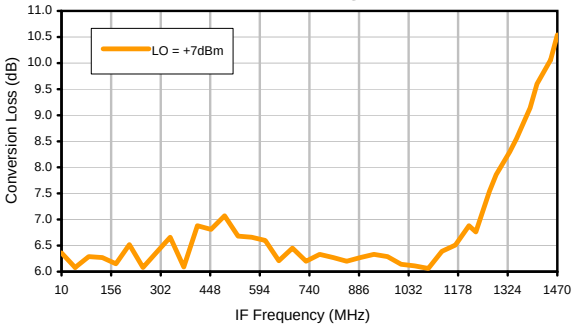
Conversion Loss @ IF=30MHz



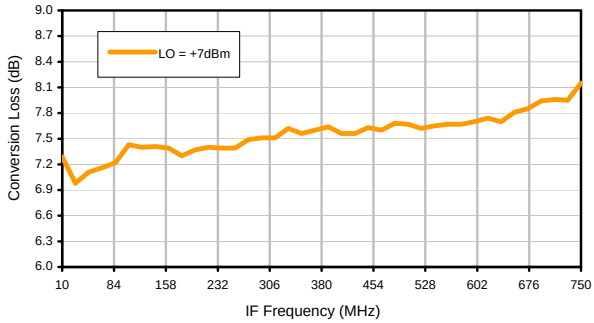
Conversion Loss vs. IF @ RF=385.1MHz



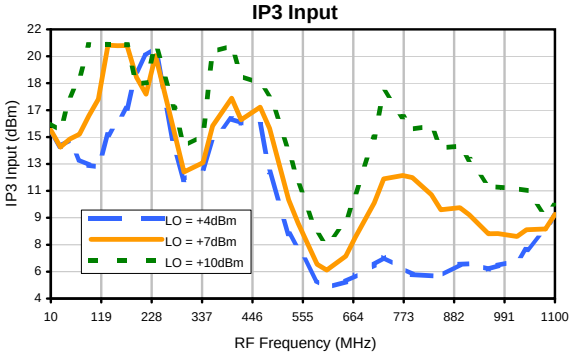
Conversion Loss vs. IF @ RF=10.1MHz



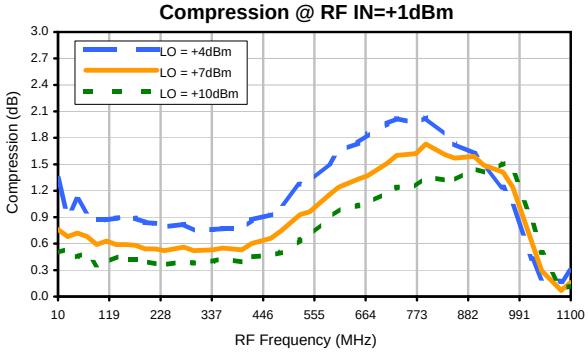
Conversion Loss vs. IF @ RF=760.1MHz



IP3 Input

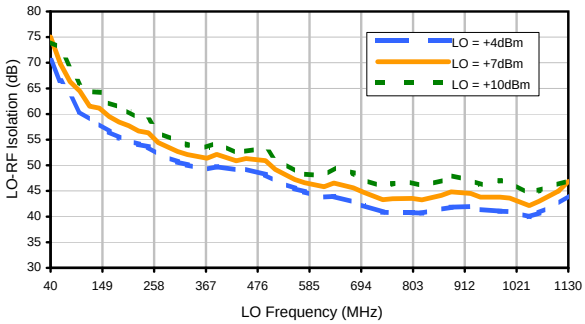


Compression @ RF IN=+1dBm

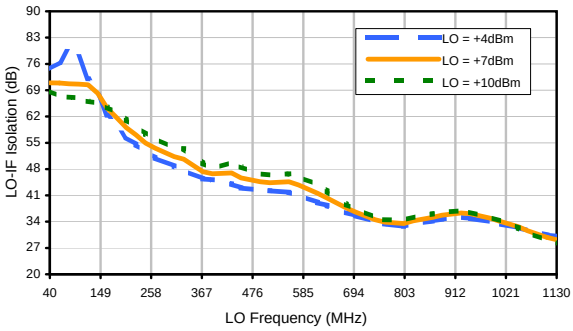


Typical Performance Curves

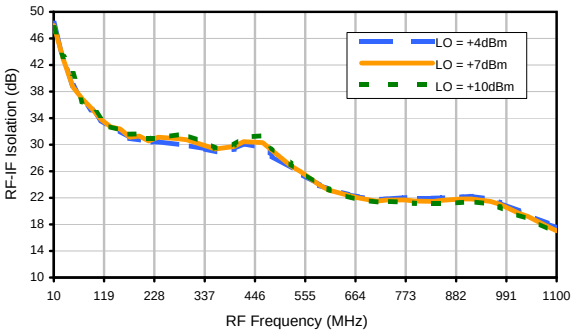
LO-RF Isolation



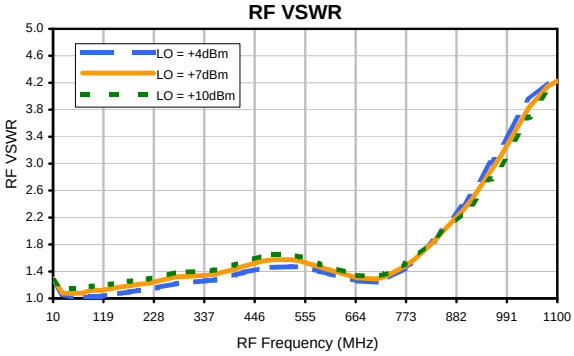
LO-IF Isolation



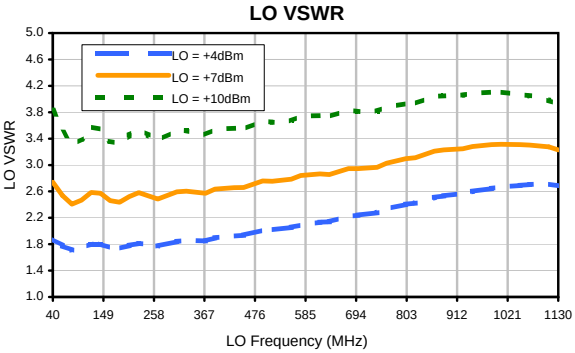
RF-IF Isolation



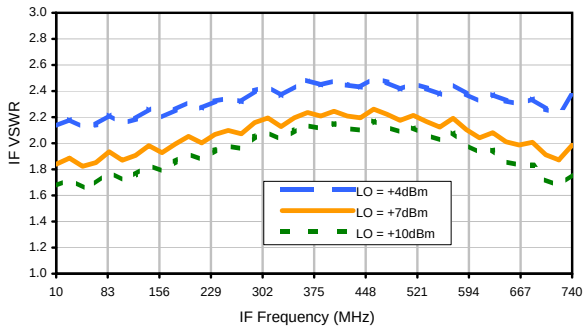
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	20	36	20	38	20	44	19	36	37	63
1	-	24	+0	31	11	38	19	45	37	48	45	51
2	>90	69	>69	68	67	>69	>69	>69	63	>69	55	>69
3	>90	>69	64	>69	69	>69	63	>69	>69	>69	>69	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 375 MHz; -14.00 dBm.
LO IN: 405 MHz; +7.00 dBm
IF OUT: 30 MHz; -20.6 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	29	48	30	53	32	55	32	50	51	77
1	-	24	+0	33	11	38	21	48	39	58	71	60
2	72	65	61	72	67	69	60	65	57	>79	50	65
3	>90	55	40	51	44	56	39	59	44	63	54	60
4	>90	73	72	70	71	70	68	74	69	>79	69	>79
5	>90	>79	65	71	54	77	54	78	56	70	66	>79
6	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>90	>79	>79	>79	77	78	71	79	69	>79	66	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 375 MHz; -4.00 dBm.
LO IN: 405 MHz; +7.00 dBm
IF OUT: 30 MHz; -10.59 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.