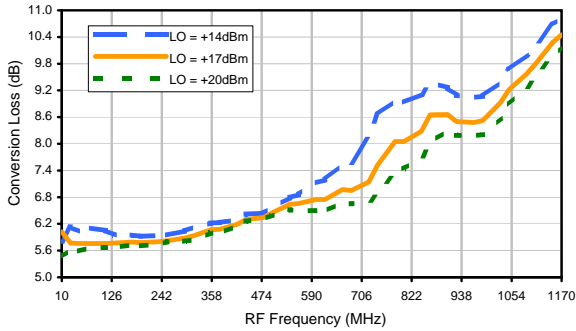


Frequency Mixer

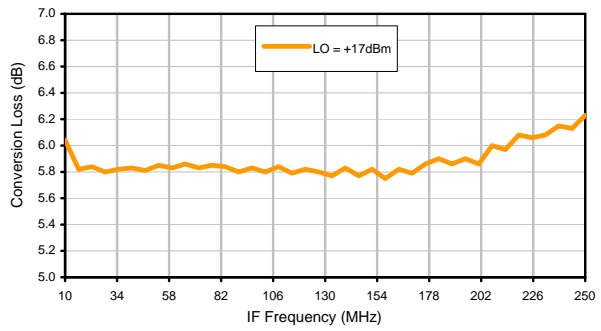
Typical Performance Curves

SRA-1H+

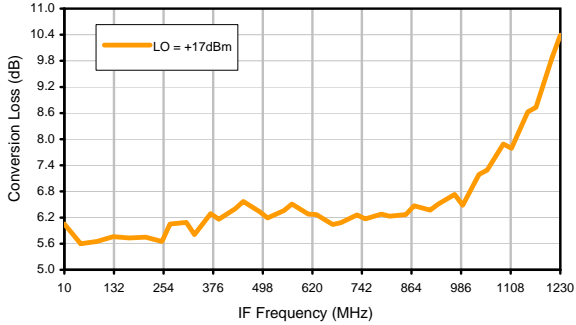
Conversion Loss @ IF=30MHz



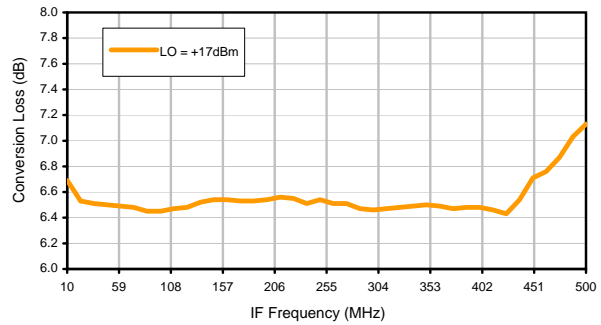
Conversion Loss vs. IF @ RF=260.1MHz



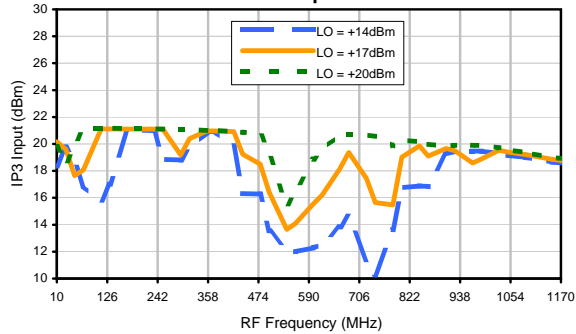
Conversion Loss vs. IF @ RF=10.1MHz



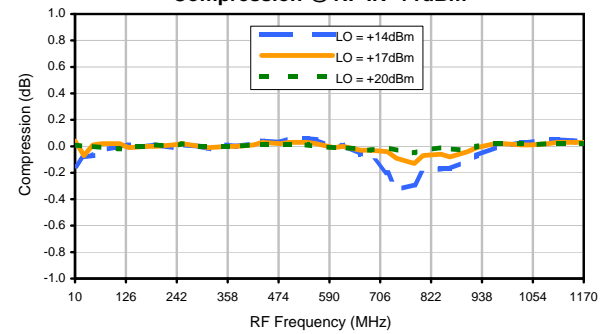
Conversion Loss vs. IF @ RF=510.1MHz



IP3 Input

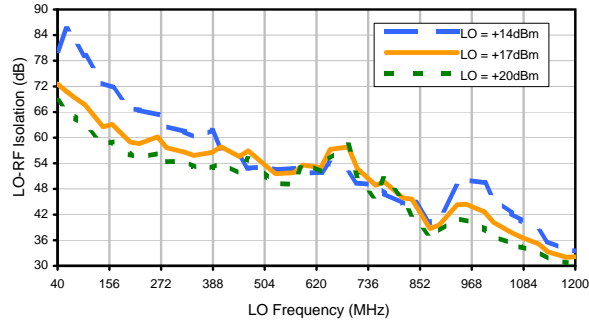


Compression @ RF IN=+1dBm

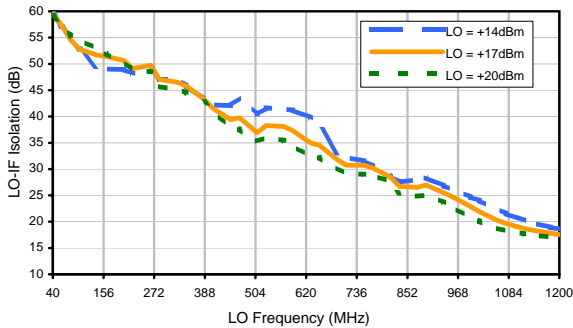


Typical Performance Curves

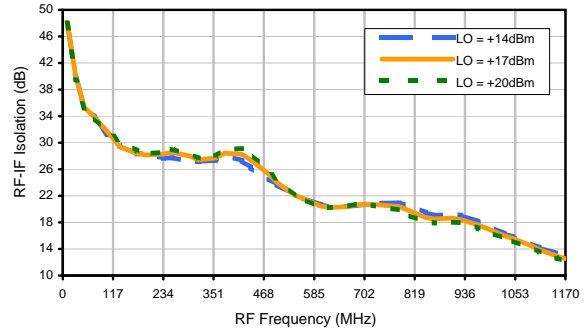
LO-RF Isolation



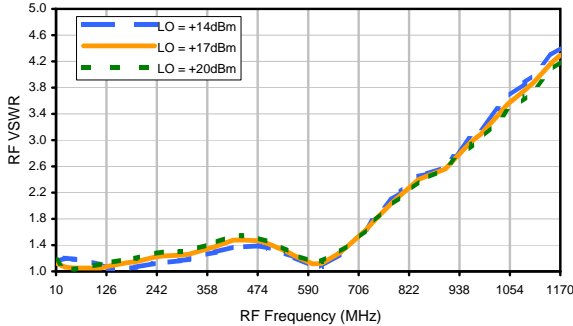
LO-IF Isolation



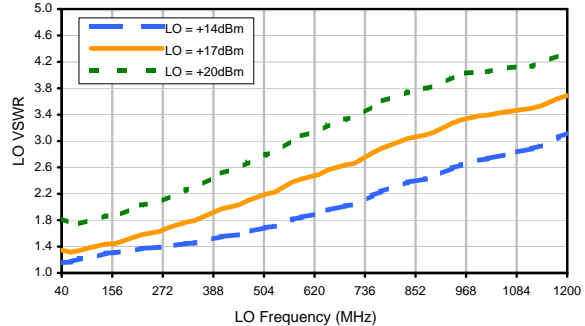
RF-IF Isolation



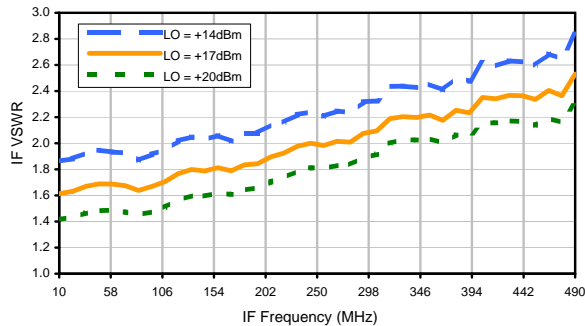
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

Harmonics Tables

SRA-1H+

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	4	20	15	16	8	23	7	36	22	29
1	-	23	+0	30	11	47	17	36	36	42	44	52
2	>90	>70	65	>70	65	>70	67	>70	65	>70	64	>70
3	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 250 MHz; -14.00 dBm.
 LO IN: 280 MHz; +17.00 dBm
 IF OUT: 30 MHz; -20.18 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	30	25	26	18	33	18	47	32	39
1	-	23	+0	30	11	48	17	36	36	42	45	52
2	73	77	56	67	56	67	58	65	57	68	54	72
3	>90	74	56	76	57	>80	56	77	57	78	72	>80
4	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250 MHz; -4.00 dBm.
 LO IN: 280 MHz; +17.00 dBm
 IF OUT: 30 MHz; -10.04 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.

