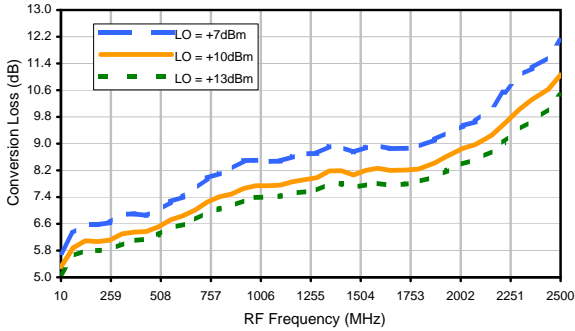


# Frequency Mixer

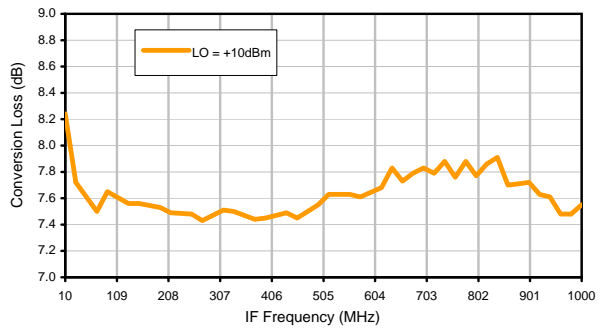
# SRA-220+

## Typical Performance Curves

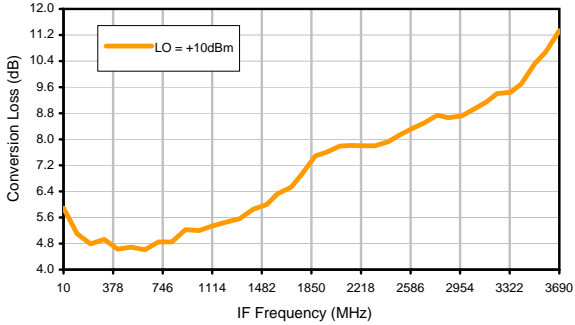
Conversion Loss @ IF=30MHz



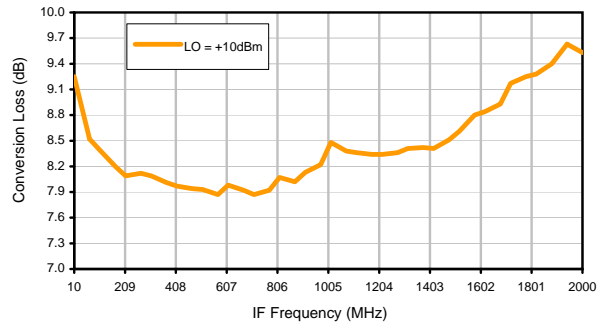
Conversion Loss vs. IF @ RF=1010.1MHz



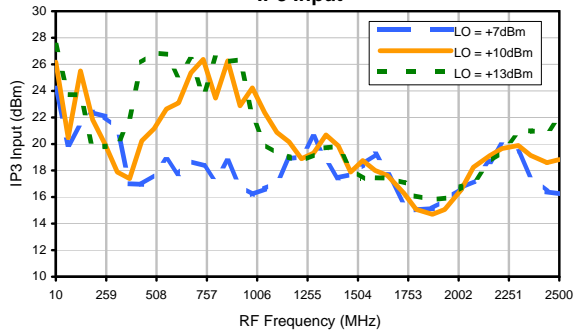
Conversion Loss vs. IF @ RF=10.1MHz



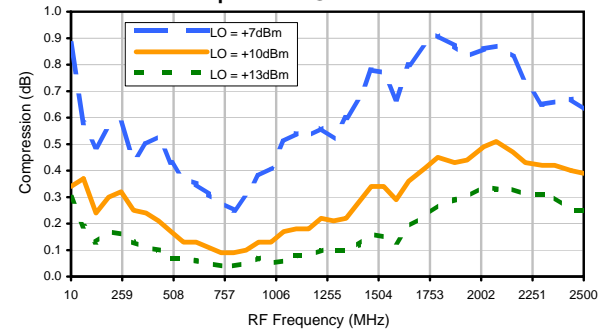
Conversion Loss vs. IF @ RF=2010.1MHz



IP3 Input

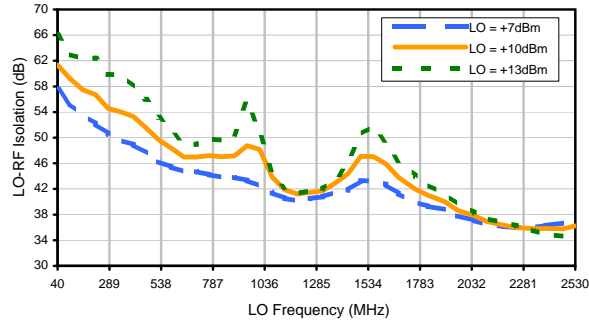


Compression @ RF IN=+5dBm

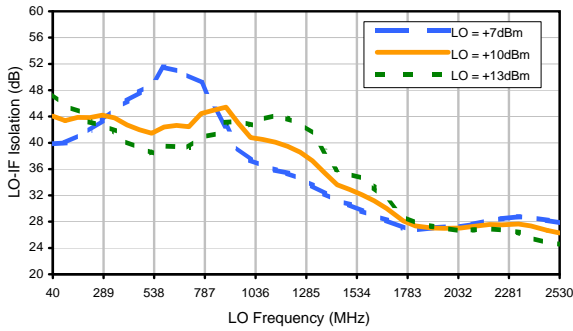


## Typical Performance Curves

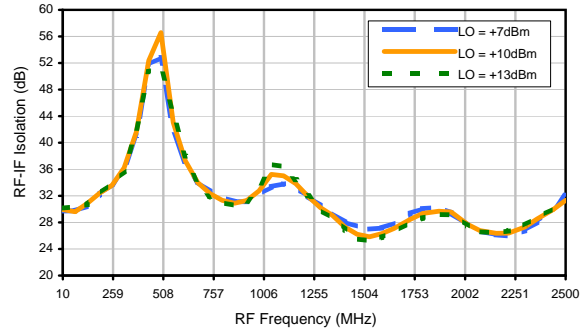
LO-RF Isolation



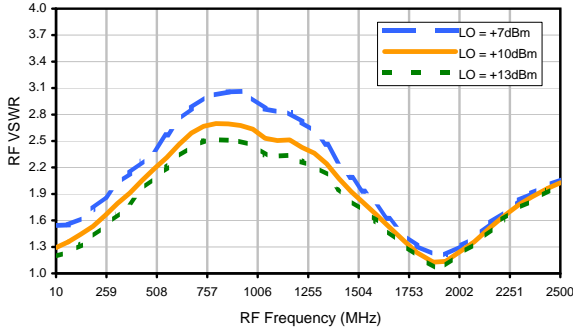
LO-IF Isolation



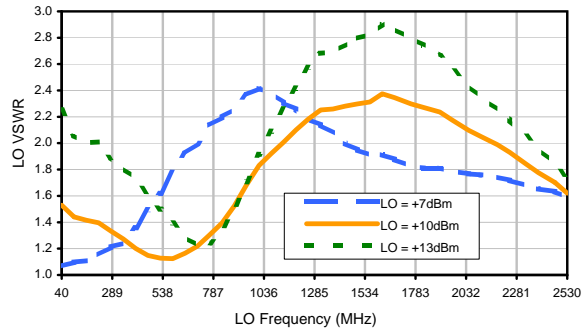
RF-IF Isolation



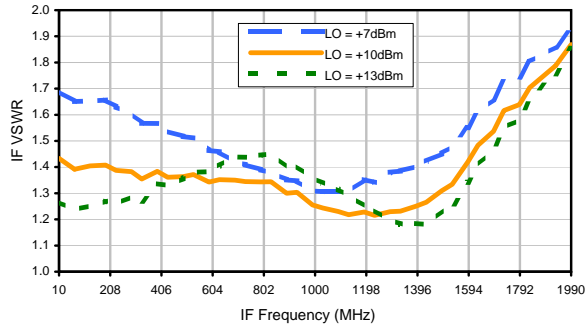
RF VSWR



LO VSWR



IF VSWR



# Frequency Mixer

## Harmonics Tables

# SRA-220+

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	15	26	34	20	34	33	38	44	48
1	-	25	+0	36	14	31	36	38	39	46	50	57
2	81	61	54	58	50	57	50	63	57	66	67	71
3	>90	>72	71	>72	>72	>72	>72	>72	>72	>72	>72	>72
4	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
5	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
6	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
7	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
8	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
9	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
10	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 1000 MHz; -10.00 dBm.  
 LO IN: 1030 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -17.83 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	25	39	46	30	48	44	50	56	61
1	-	25	+0	37	14	32	37	39	41	47	53	59
2	62	58	44	49	42	49	42	55	49	58	59	65
3	>90	57	51	64	59	61	52	63	56	66	56	79
4	>90	71	74	69	76	68	66	70	67	74	72	76
5	>90	>82	82	>82	75	>82	73	>82	70	80	73	77
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1000 MHz; 0.00 dBm.  
 LO IN: 1030 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -7.92 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.