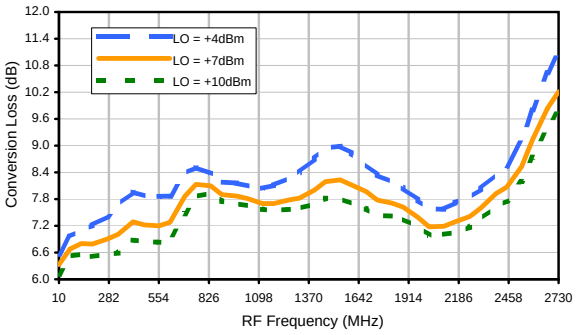
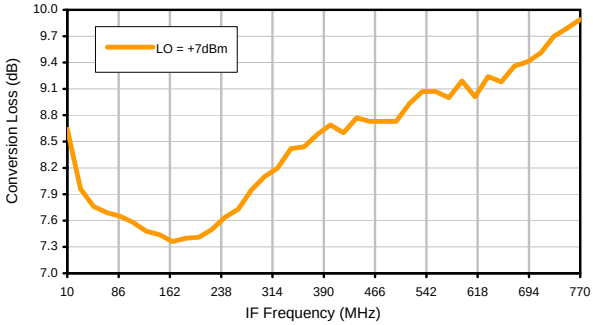
Frequency Mixer SRA-11+

Typical Performance Curves

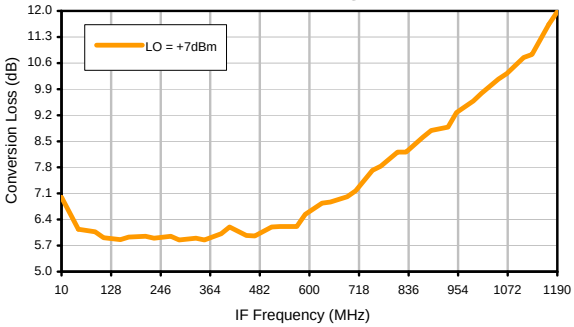
Conversion Loss @ IF=30MHz



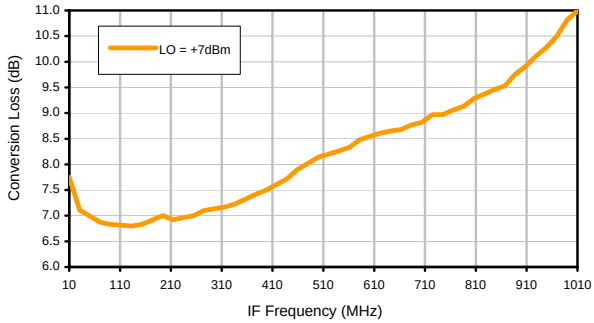
Conversion Loss vs. IF @ RF=1010.1MHz



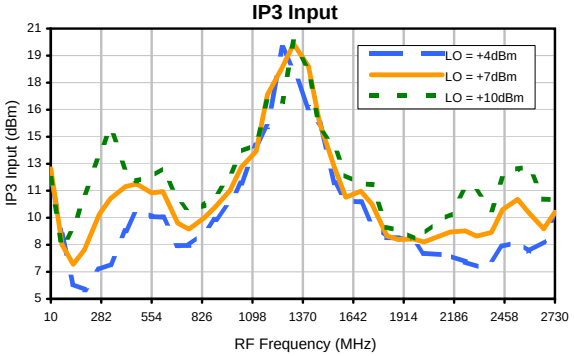
Conversion Loss vs. IF @ RF=10.1MHz



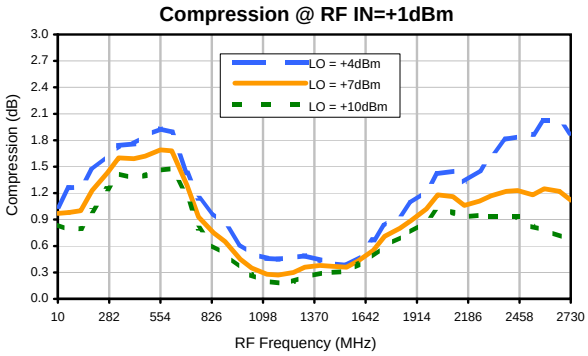
Conversion Loss vs. IF @ RF=2010.1MHz



IP3 Input

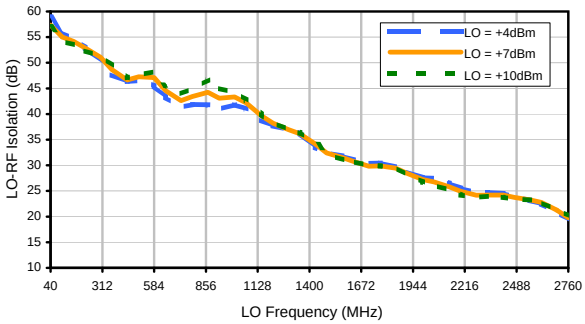


Compression @ RF IN=+1dBm

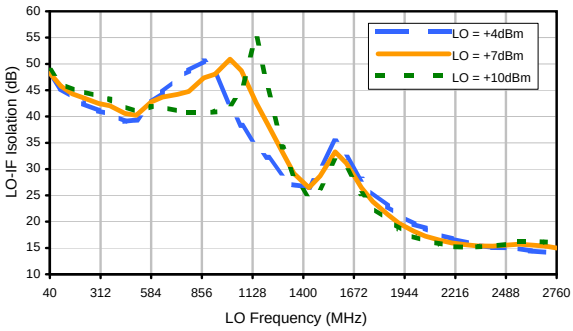


Typical Performance Curves

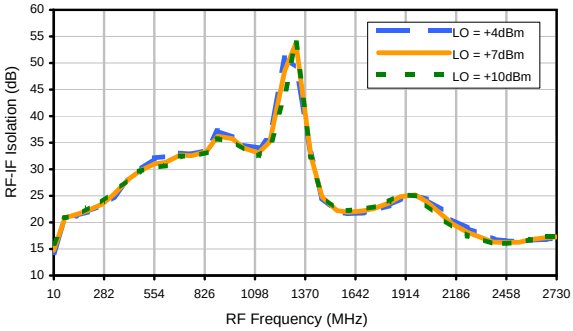
LO-RF Isolation



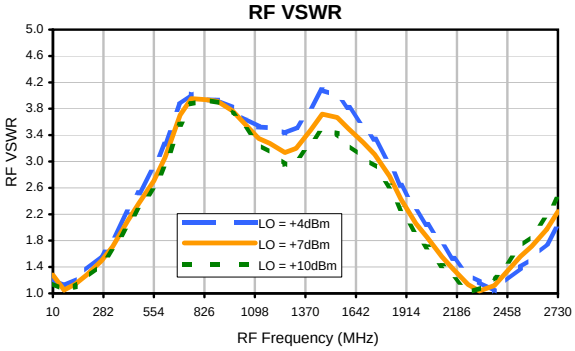
LO-IF Isolation



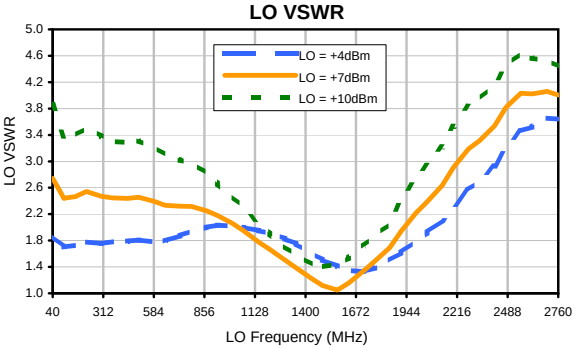
RF-IF Isolation



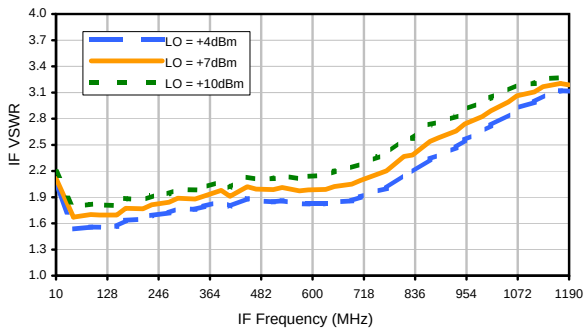
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	23	24	7	37	27	49	39	50	46	40
1	-	27	+0	30	19	34	32	38	42	48	46	44
2	87	67	56	66	55	>68	52	>68	65	>68	>68	>68
3	>90	>68	65	>68	60	>68	64	>68	>68	>68	>68	>68
4	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
5	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
6	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
7	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
8	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
9	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
10	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 1002.5 MHz; -14.00 dBm.
LO IN: 1032.5 MHz; +7.00 dBm
IF OUT: 30 MHz; -22.12 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	31	34	18	48	39	63	52	65	61	56
1	-	26	+0	30	19	35	34	41	46	54	54	52
2	67	59	47	55	47	63	45	72	59	71	67	>78
3	>90	56	48	54	43	53	49	57	56	56	62	66
4	>90	>78	72	>78	74	74	69	73	66	>78	76	>78
5	>90	>78	>78	72	71	70	60	69	62	74	71	70
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	76	>78	77	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1002.5 MHz; -4.00 dBm.
LO IN: 1032.5 MHz; +7.00 dBm
IF OUT: 30 MHz; -12 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.