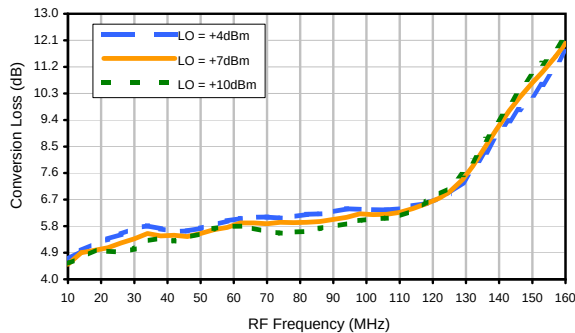


Frequency Mixer

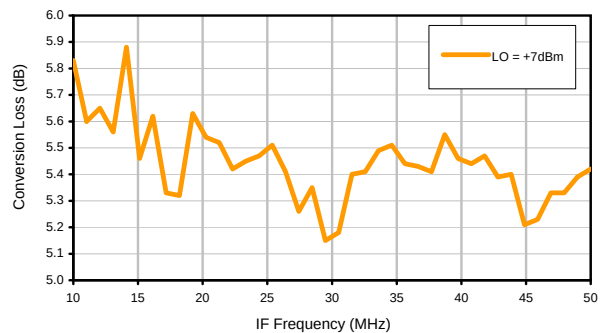
SRA-6+

Typical Performance Curves

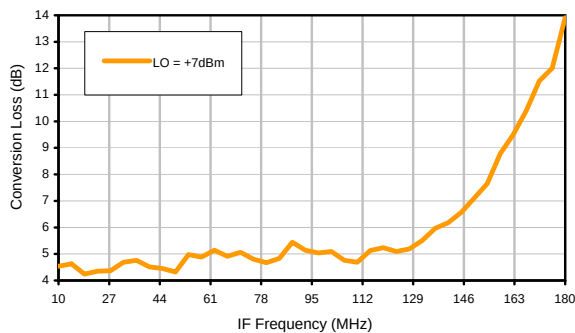
Conversion Loss @ IF=30MHz



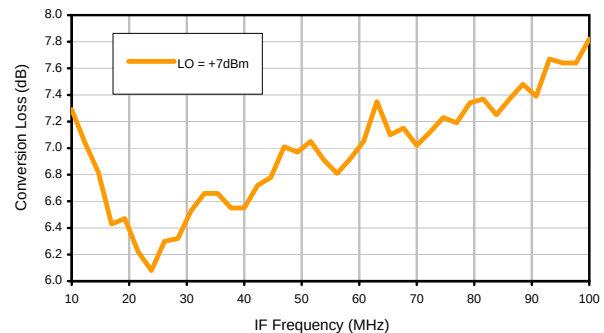
Conversion Loss vs. IF @ RF=60.1MHz



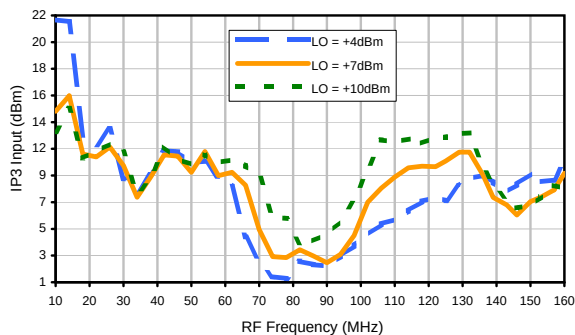
Conversion Loss vs. IF @ RF=10MHz



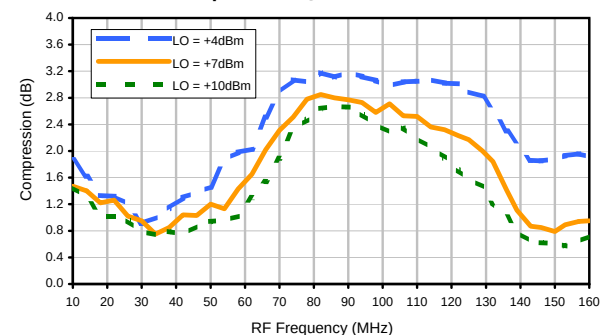
Conversion Loss vs. IF @ RF=110.1MHz



IP3 Input



Compression @ RF IN=+1dBm

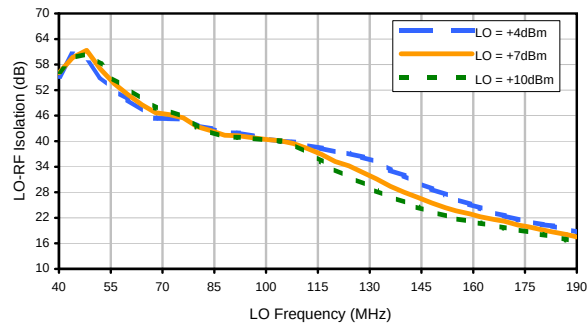


Frequency Mixer

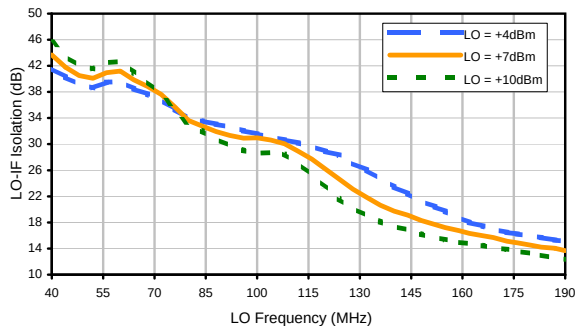
SRA-6+

Typical Performance Curves

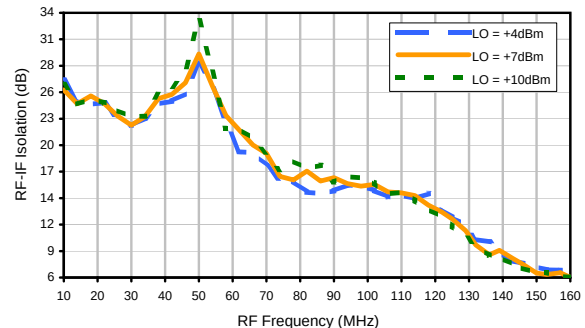
LO-RF Isolation



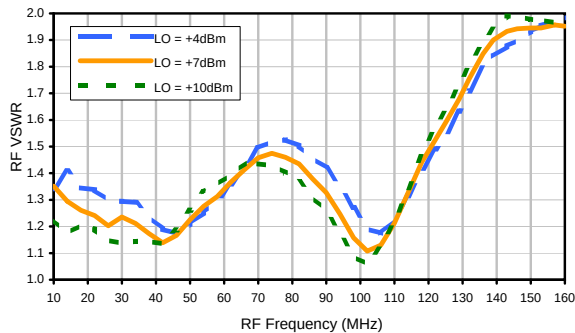
LO-IF Isolation



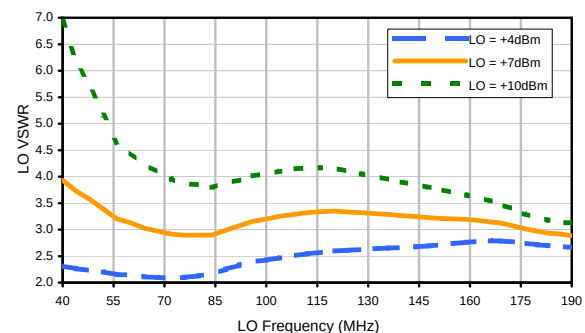
RF-IF Isolation



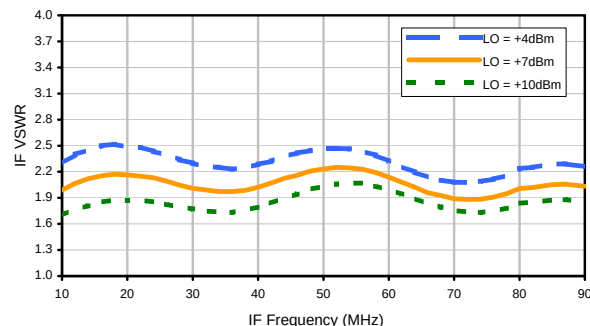
RF VSWR



LO VSWR



IF VSWR



REV. X3

SRA-6+

101031

Page 2 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Frequency Mixer

SRA-6+

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	22	18	35	24	35	27	53	27	40
1	-	19	+0	35	15	47	30	45	37	39	29	39
2	>90	55	44	57	44	58	56	70	56	>71	50	67
3	>90	64	53	63	54	>71	66	>71	>71	68	59	65
4	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
5	>90	65	>71	54	64	52	64	64	>71	63	>71	59
6	>90	56	58	45	57	44	55	44	63	61	60	65
7	>90	30	47	15	35	+0	19	1	28	23	32	50
8	>90	24	35	18	22	7	+19	7	22	18	35	24
9	>90	51	32	23	28	+0	19	+0	35	14	47	30
10	>90	64	61	61	63	44	55	44	57	45	58	57
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions:

RF IN: 50 MHz; -14.00 dBm.

LO IN: 80 MHz; +7.00 dBm

IF OUT: 30 MHz; -19.41 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	32	30	46	35	46	43	67	47	61
1	-	20	+0	44	16	47	31	67	40	40	35	47
2	73	48	40	49	42	50	52	62	51	58	47	56
3	>90	41	32	47	34	46	46	55	56	58	46	45
4	>90	58	54	57	58	54	58	64	63	74	66	67
5	>90	46	46	33	46	31	41	49	54	51	52	43
6	>90	53	50	42	49	40	48	37	60	58	60	53
7	>90	31	47	16	44	+0	20	1	29	23	35	41
8	>90	35	46	30	32	16	+10	16	32	30	46	35
9	>90	41	35	23	29	1	20	+0	44	16	47	31
10	>90	53	60	58	60	37	49	40	49	42	50	52
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 50 MHz; -4.00 dBm.

LO IN: 80 MHz; +7.00 dBm

IF OUT: 30 MHz; -9.51 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.

REV. X3

SRA-6+

101031

Page 3 of 3

Mini-Circuits®

IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

