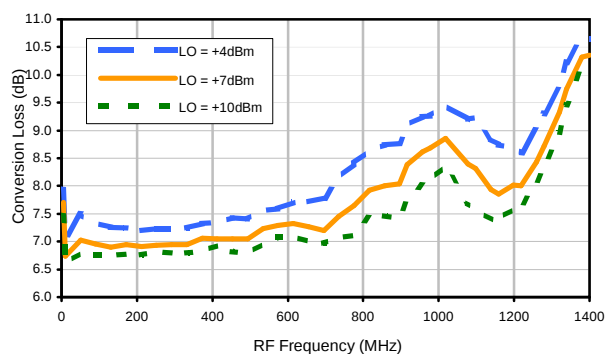


Frequency Mixer

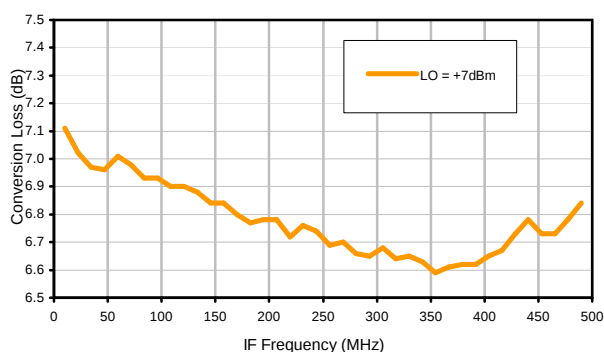
SCM-2NL+

Typical Performance Curves

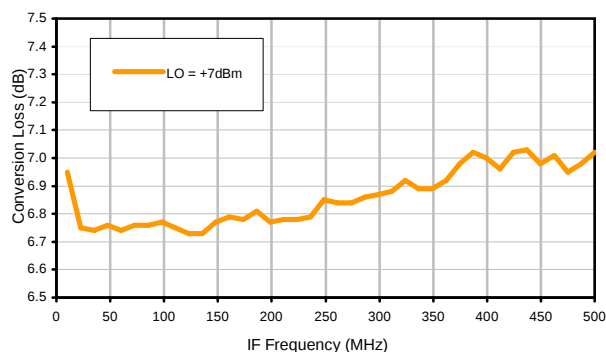
Conversion Loss @ IF=30MHz



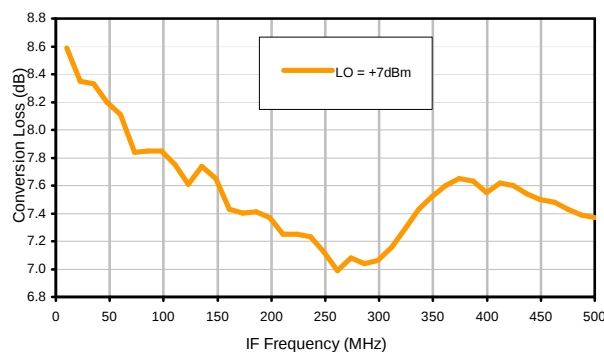
Conversion Loss vs. IF @ RF=500.1MHz



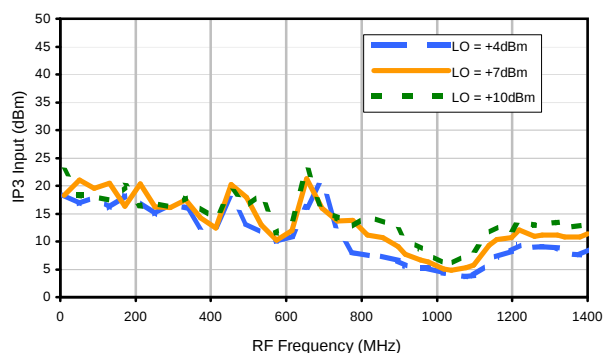
Conversion Loss vs. IF @ RF=10.1MHz



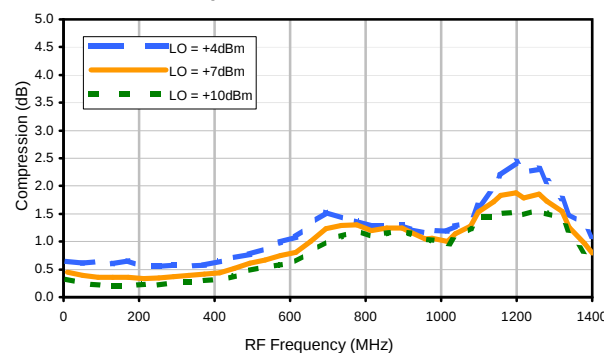
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

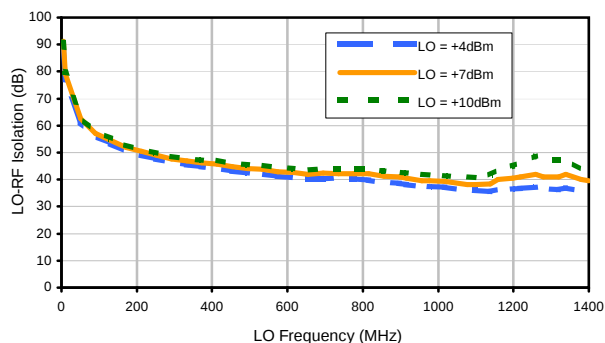


Compression @ RF IN=+1dBm

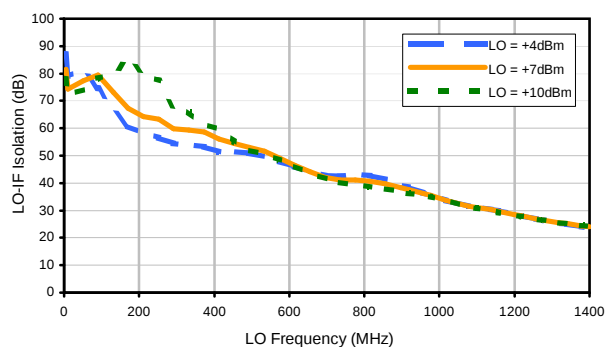


Typical Performance Curves

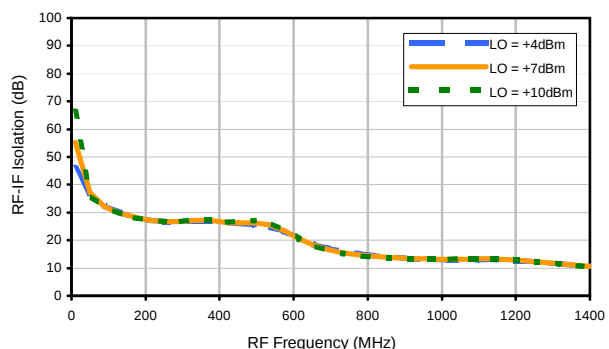
LO-RF Isolation



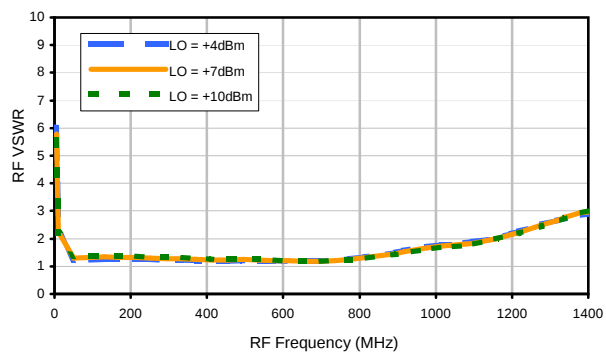
LO-IF Isolation



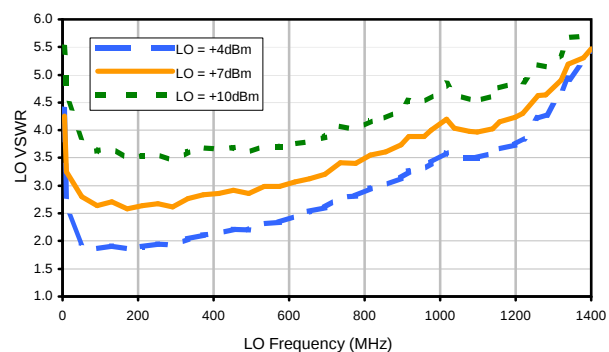
RF-IF Isolation



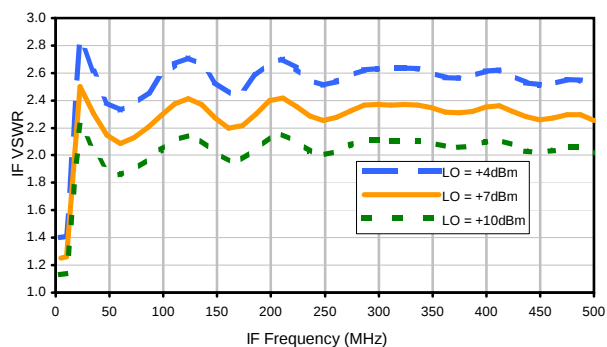
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	25	23	29	23	38	35	40	45	56
1	-	19	+0	30	12	31	24	38	46	36	42	44
2	>100	74	59	62	63	67	61	71	65	79	70	>79
3	>100	63	65	64	60	65	58	66	69	78	>79	73
4	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
5	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
6	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>100	>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: 500.1 MHz; -14.00 dBm.

LO IN: 530.01 MHz; +7.00 dBm

IF OUT: 29.91 MHz; -21.12 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	32	36	35	41	34	49	49	51	57	69
1	-	21	+0	27	12	35	25	44	46	42	46	50
2	97	57	51	56	54	62	53	60	59	66	64	72
3	>100	48	45	53	62	50	45	54	54	57	70	51
4	>100	73	68	67	71	69	76	68	74	85	79	>89
5	>100	68	75	61	54	62	54	62	53	63	65	>89
6	>100	>89	>89	>89	83	>89	>89	>89	85	87	>89	>89
7	>100	83	>89	86	77	79	>89	83	81	79	74	79
8	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	87	88	85	86	86
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 500.1 MHz; -4.00 dBm.

LO IN: 530.01 MHz; +7.00 dBm

IF OUT: 29.91 MHz; -11.1 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.



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