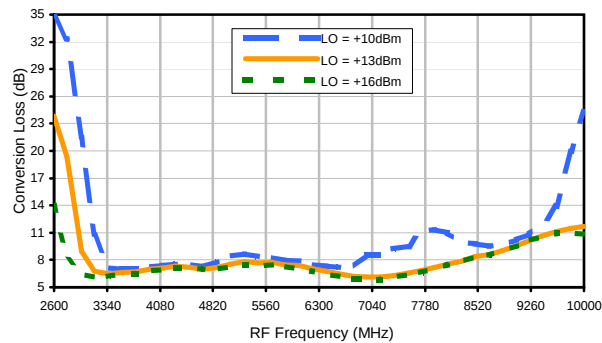


Frequency Mixer

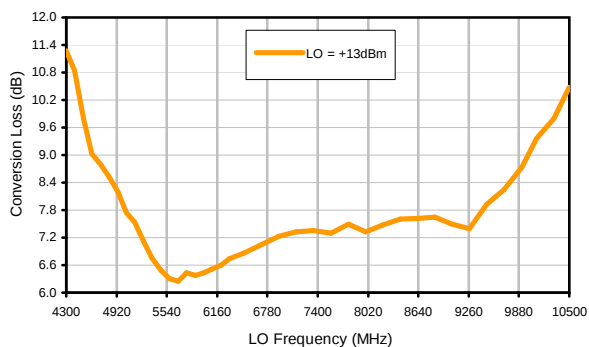
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Typical Performance Curves

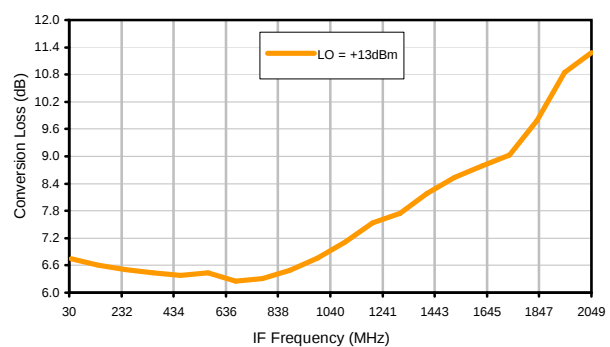
Conversion Loss @ IF=30MHz



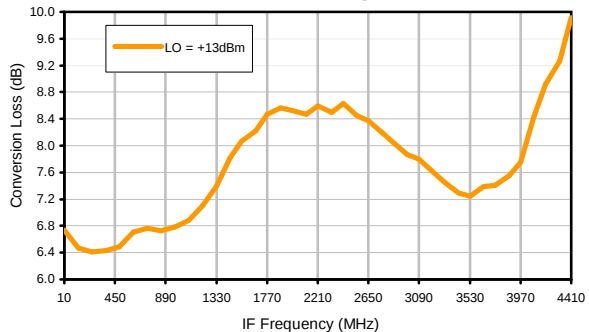
Conversion Loss vs. LO @ RF=6350MHz



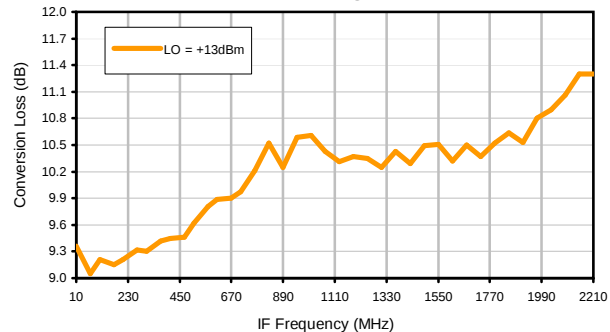
Conversion Loss vs. IF @ RF=6350MHz



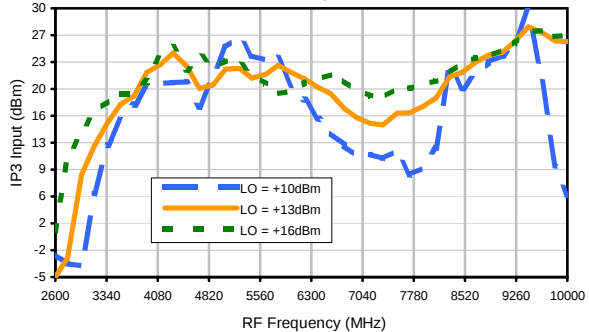
Conversion Loss vs. IF @ RF=3690MHz



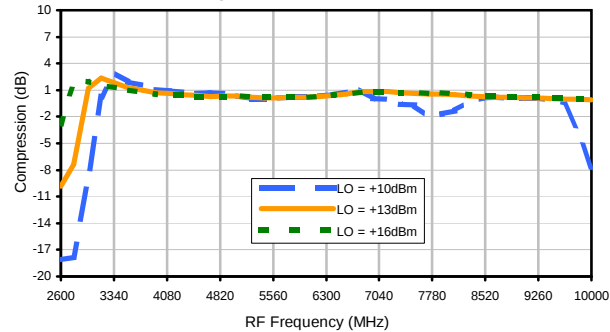
Conversion Loss vs. IF @ RF=9010.09MHz



IP3 Input



Compression @ RF IN=+9dBm

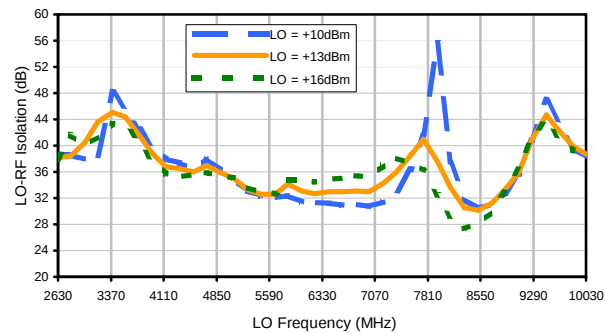


Frequency Mixer

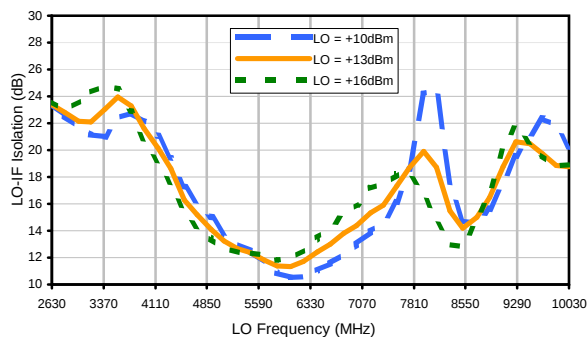
SIM-ED12399/10A

Typical Performance Curves

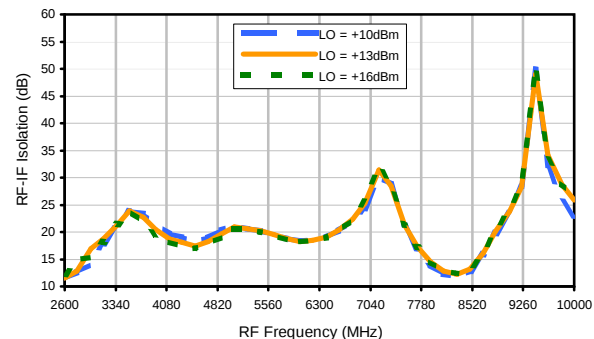
LO-RF Isolation



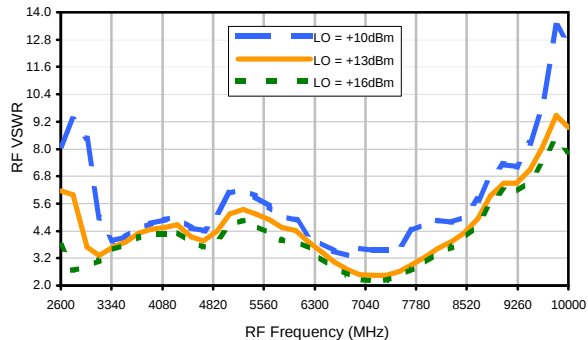
LO-IF Isolation



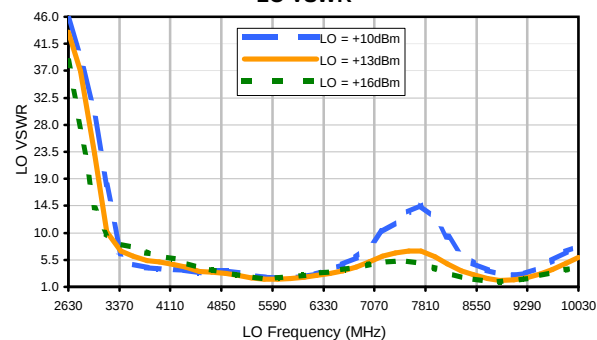
RF-IF Isolation



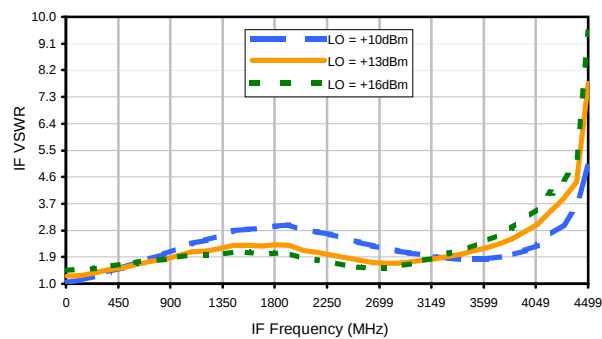
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+14	33	14	---	---	---	---	---	---	---
1	-	12	+0	33	26	48	---	---	---	---	---	---
2	74	61	45	56	48	62	59	---	---	---	---	---
3	>90	68	63	74	71	75	>77	>77	---	---	---	---
4	---	---	>77	>77	>77	>77	>77	>77	>77	---	---	---
5	---	---	---	>77	>77	>77	>77	>77	>77	>77	---	---
6	---	---	---	---	>77	>77	>77	>77	>77	>77	>77	---
7	---	---	---	---	---	76	>77	>77	>77	>77	>77	>77
8	---	---	---	---	---	---	73	>77	>77	>77	>77	>77
9	---	---	---	---	---	---	---	>77	>77	>77	>77	>77
10	---	---	---	---	---	---	---	---	>77	>77	>77	>77
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions:

RF IN: 6350 MHz; -6.00 dBm.
LO IN: 6380 MHz; +13.00 dBm
IF OUT: 30 MHz; -13 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+4	42	26	---	---	---	---	---	---	---
1	-	12	+0	34	25	49	---	---	---	---	---	---
2	54	53	36	47	40	54	50	---	---	---	---	---
3	69	48	43	54	46	56	62	72	---	---	---	---
4	---	---	71	76	61	72	62	70	71	---	---	---
5	---	---	---	78	81	86	63	84	75	76	---	---
6	---	---	---	---	>87	>87	80	86	78	>87	81	---
7	---	---	---	---	---	>87	>87	>87	83	86	>87	>87
8	---	---	---	---	---	---	>87	>87	>87	>87	>87	>87
9	---	---	---	---	---	---	---	>87	>87	>87	>87	>87
10	---	---	---	---	---	---	---	---	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 6350 MHz; 4.00 dBm.
LO IN: 6380 MHz; +13.00 dBm
IF OUT: 30 MHz; -2.98 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. X2

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101028

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