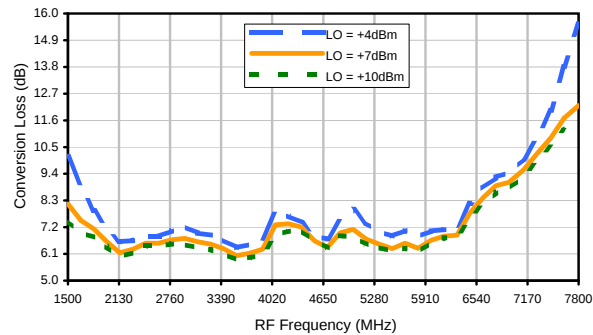


Frequency Mixer

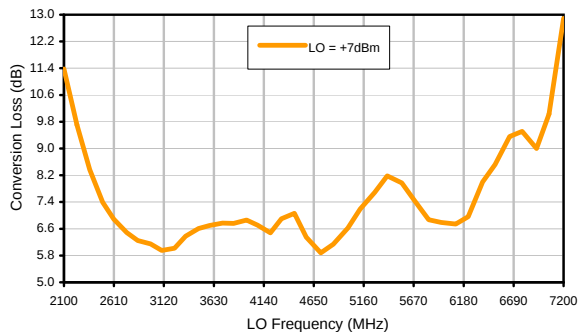
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Typical Performance Curves

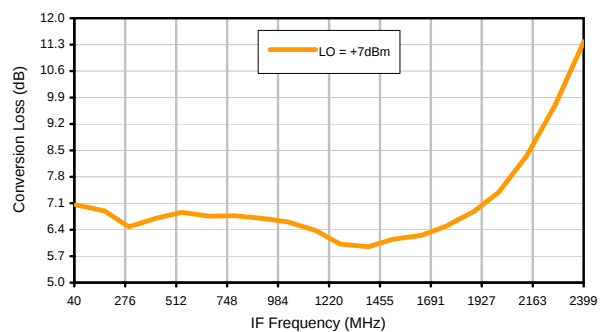
Conversion Loss @ IF=30MHz



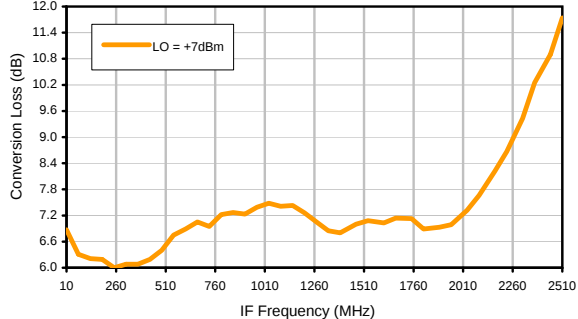
Conversion Loss vs. LO @ RF=4500MHz



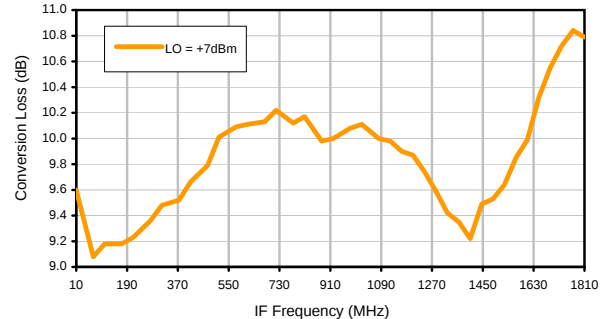
Conversion Loss vs. IF @ RF=4500MHz



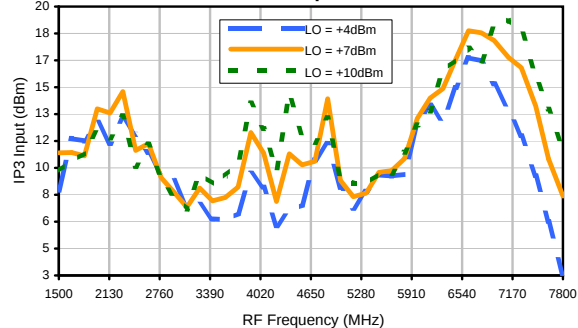
Conversion Loss vs. IF @ RF=1990MHz



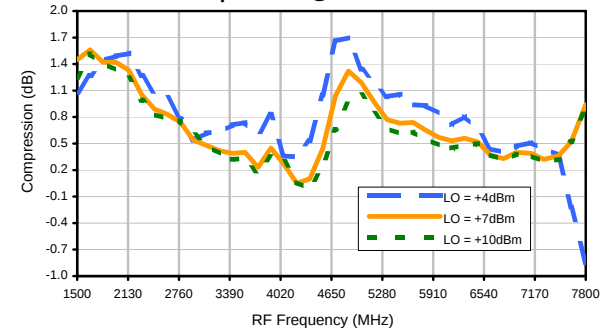
Conversion Loss vs. IF @ RF=7010.1MHz



IP3 Input



Compression @ RF IN=+1dBm

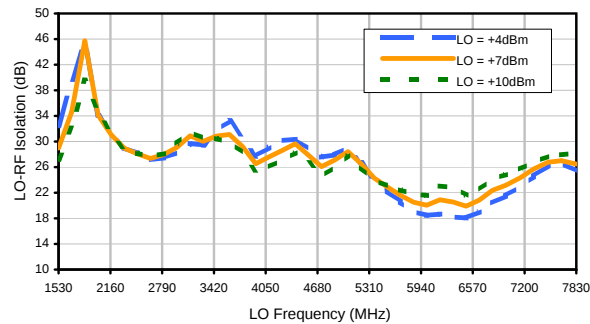


Frequency Mixer

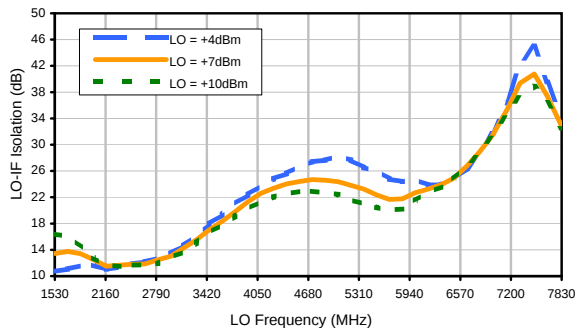
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Typical Performance Curves

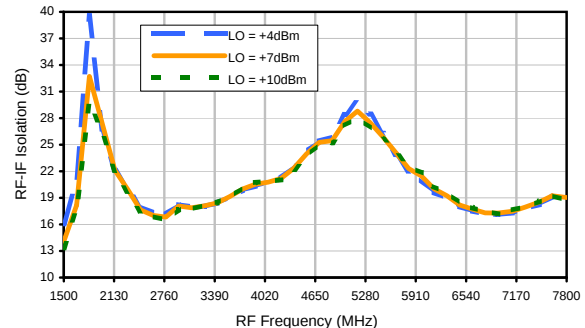
LO-RF Isolation



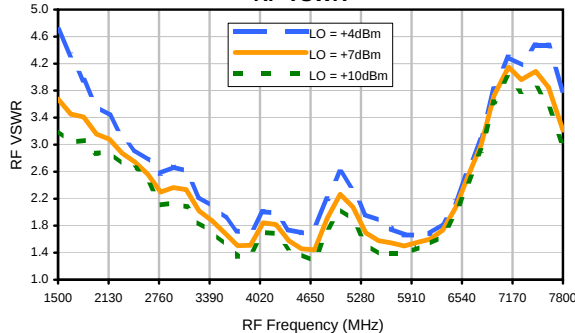
LO-IF Isolation



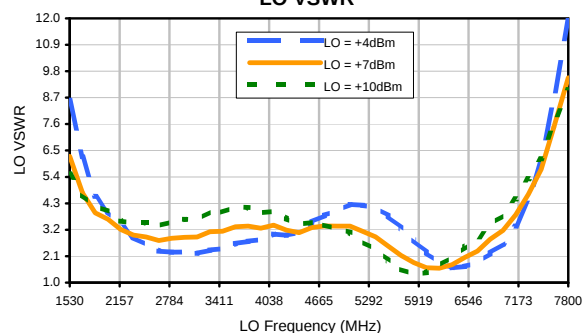
RF-IF Isolation



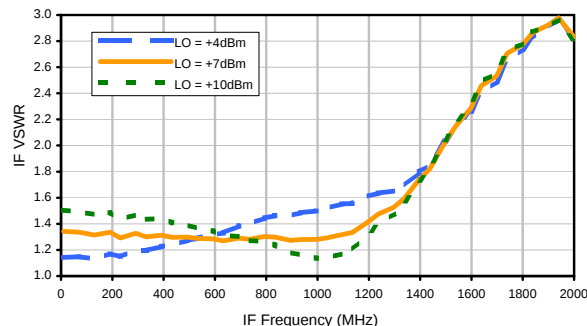
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+4	16	14	32	26	---	---	---	---	---
1	-	15	+0	32	22	39	38	51	---	---	---	---
2	>90	44	57	43	55	48	55	48	60	---	---	---
3	>90	>69	65	>69	59	>69	63	>69	>69	>69	---	---
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	---
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	---	---	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	---	---	---	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	---	---	---	---	>69	>69	>69	>69	>69	>69	>69	>69
9	---	---	---	---	---	>69	>69	>69	>69	>69	>69	>69
10	---	---	---	---	---	---	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 4500 MHz; -14.00 dBm.
LO IN: 4530 MHz; +7.00 dBm
IF OUT: 30 MHz; -21.04 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	25	26	41	44	---	---	---	---	---
1	-	15	+0	33	24	39	40	56	---	---	---	---
2	75	34	49	34	48	41	48	43	55	---	---	---
3	>90	58	45	57	43	53	46	62	57	77	---	---
4	>90	58	69	62	>79	53	65	56	66	58	>79	---
5	>90	>79	70	>79	73	77	57	70	64	69	76	76
6	---	---	>79	78	>79	>79	>79	66	79	77	>79	78
7	---	---	---	>79	>79	>79	>79	>79	75	>79	>79	>79
8	---	---	---	---	>79	>79	>79	>79	>79	>79	>79	>79
9	---	---	---	---	---	>79	>79	>79	>79	>79	>79	>79
10	---	---	---	---	---	---	>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: 4500 MHz; -4.00 dBm.
LO IN: 4530 MHz; +7.00 dBm
IF OUT: 30 MHz; -11.13 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.