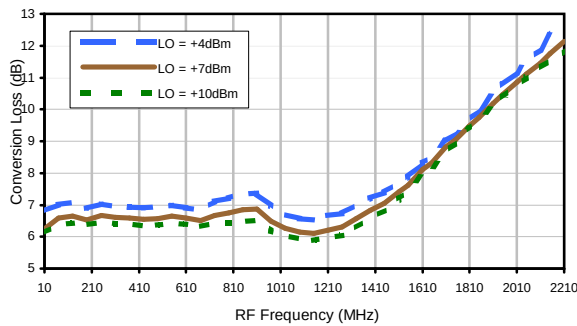


Frequency Mixer

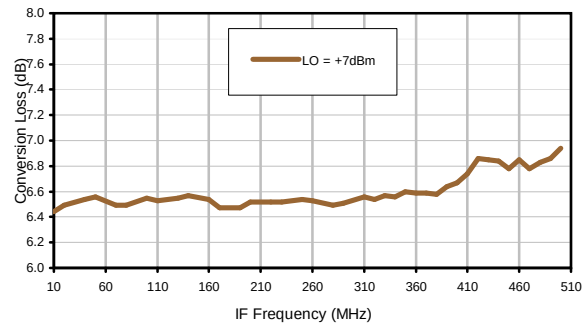
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Typical Performance Curves

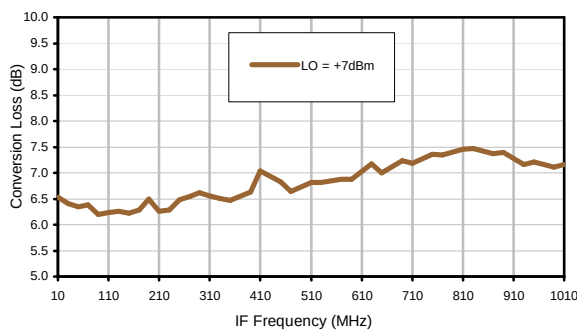
Conversion Loss @ IF=30 MHz



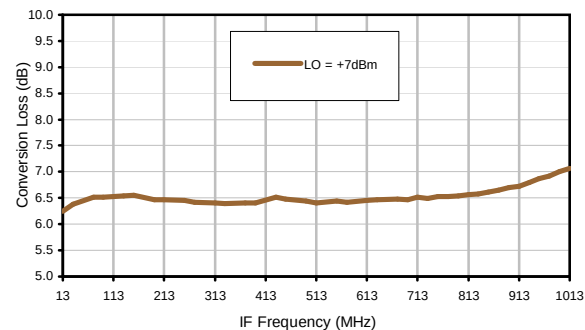
Conversion Loss vs. IF @ RF=510.1 MHz



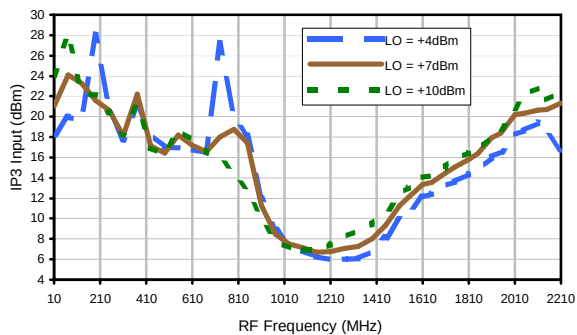
Conversion Loss vs. IF @ RF=10 MHz



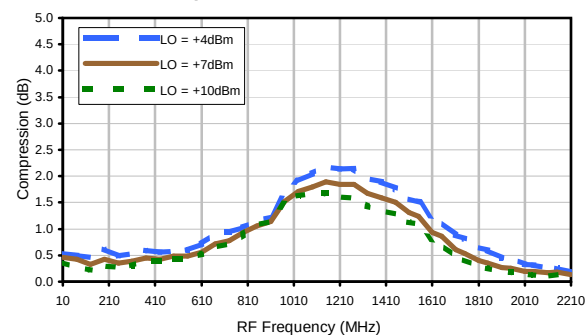
Conversion Loss vs. IF @ RF=1023.1 MHz



IP3 Input

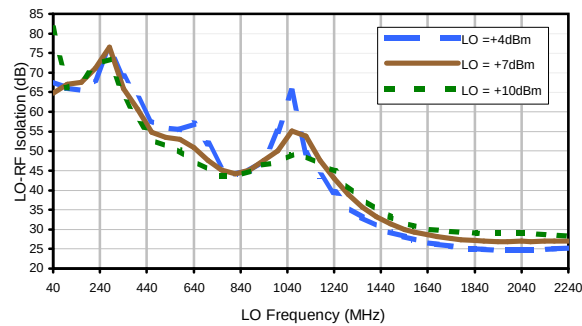


Compression @ RF IN = +1 dBm

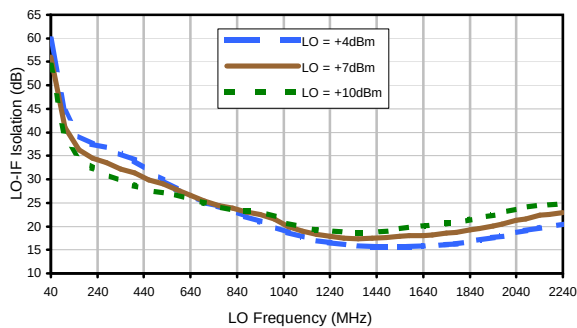


Typical Performance Curves

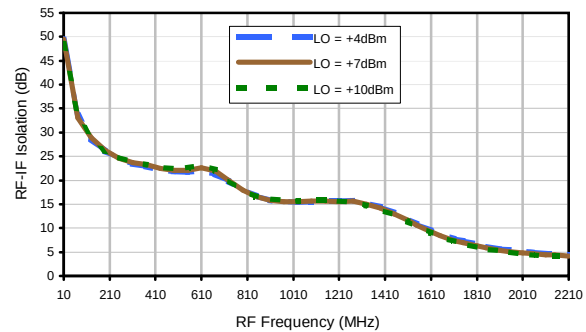
LO-RF Isolation



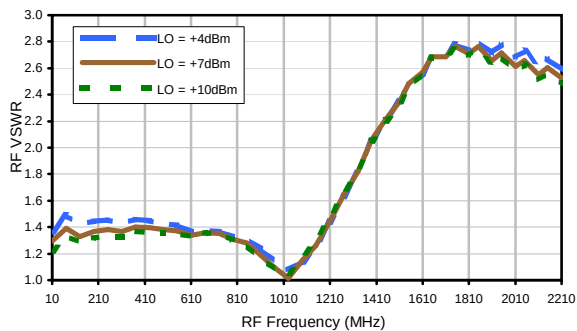
LO-IF Isolation



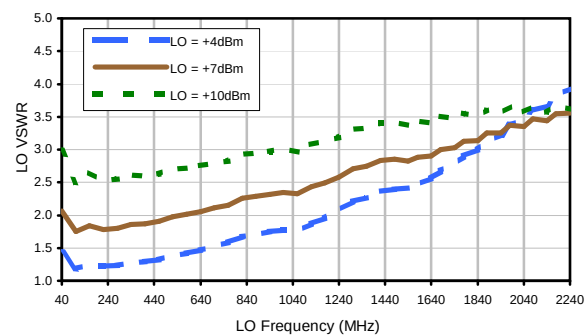
RF-IF Isolation



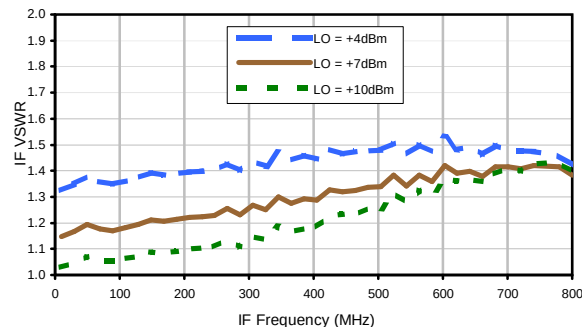
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER	(-dBm)		(-dBc)										
	0	-	-	2	19	3	20	16	27	29	37	37	40
	1	-	15	+0	36	14	44	23	40	42	45	> 69	43
	2	> 90	66	44	> 69	44	68	44	64	58	> 69	68	62
	3	> 90	> 69	> 69	> 69	67	> 69	61	> 69	> 69	> 69	> 69	> 69
	4	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
	5	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
	6	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
	7	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
	8	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
	9	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
	10	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
	RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 505.00 MHz; -14.00 dBm.
 LO IN: 535.00 MHz; +7.00 dBm
 IF OUT: 30.00 MHz; -20.87 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)											
	0	-	-	11	29	14	31	27	40	41	52	54	54
	1	-	16	+0	34	14	46	25	43	43	51	75	49
	2	72	50	34	59	34	55	36	59	51	58	58	58
	3	> 90	54	45	56	54	62	45	66	54	60	65	62
	4	> 90	66	56	66	58	74	62	76	53	67	72	70
	5	> 90	70	66	64	56	73	58	73	60	> 79	> 79	> 79
	6	> 90	> 79	> 79	> 79	69	75	67	76	65	> 79	73	> 79
	7	> 90	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79
	8	> 90	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79
	9	> 90	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79	> 79
	10	> 90	> 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: 505.00 MHz; -4.00 dBm.
 LO IN: 535.00 MHz; +7.00 dBm
 IF OUT: 30.00 MHz; -10.88 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.