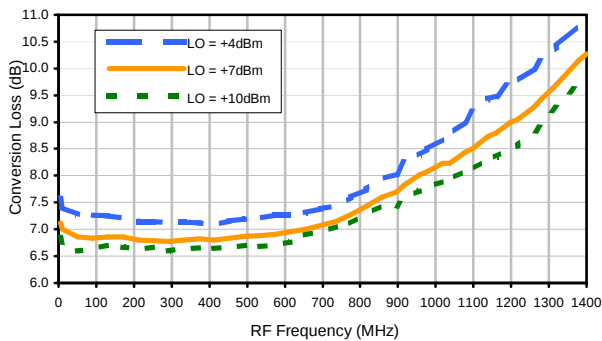


Frequency Mixer

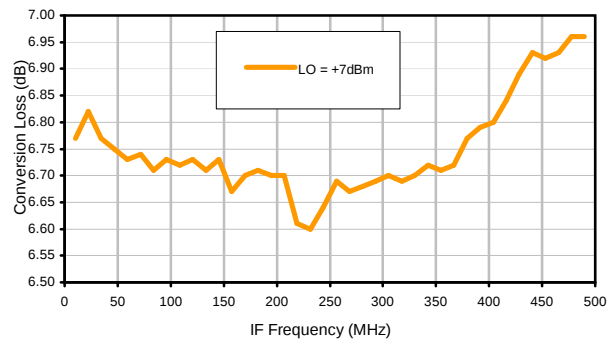
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Typical Performance Curves

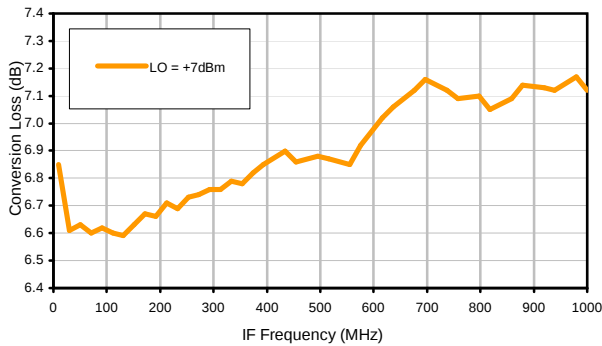
Conversion Loss @ IF=30MHz



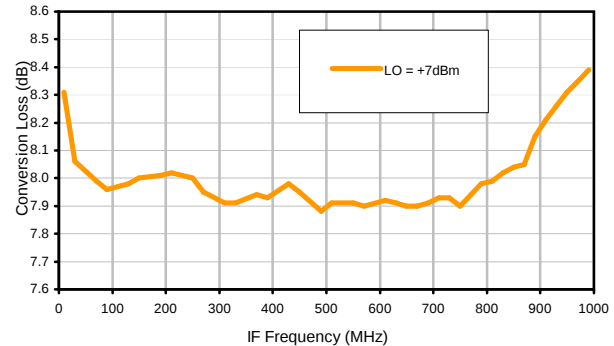
Conversion Loss vs. IF @ RF=500.1MHz



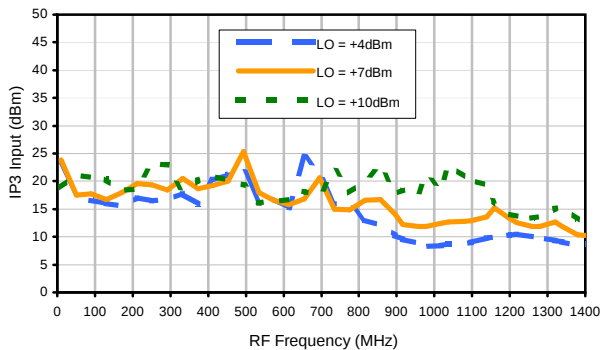
Conversion Loss vs. IF @ RF=10.1MHz



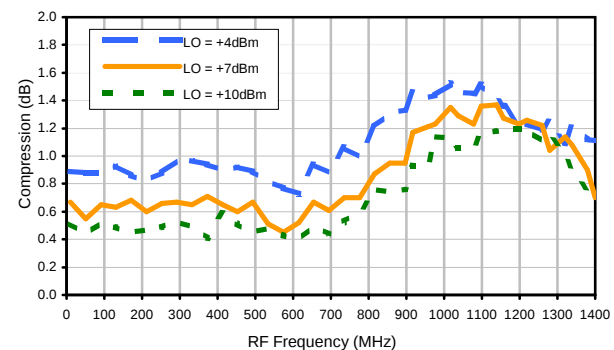
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input



Compression @ RF IN=+1dBm



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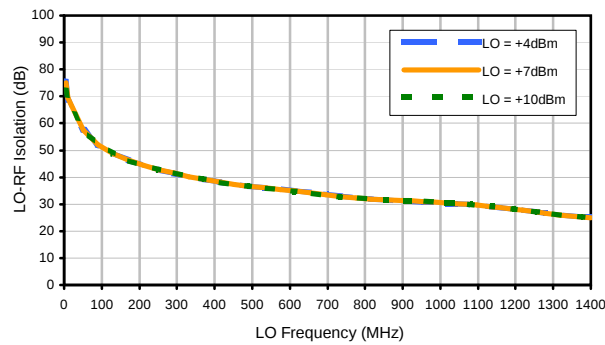
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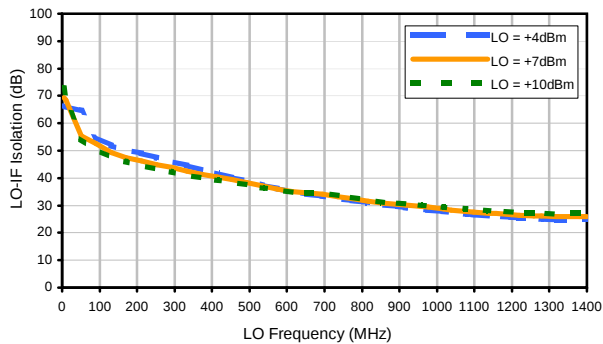
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Typical Performance Curves

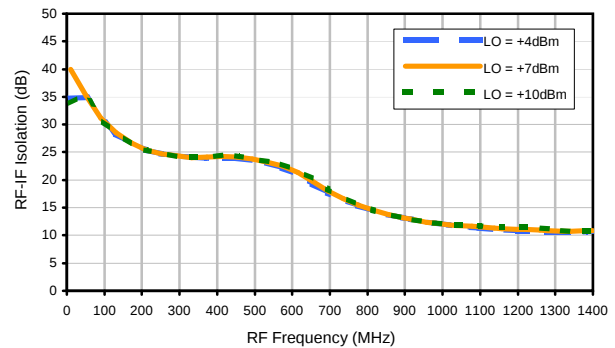
LO-RF Isolation



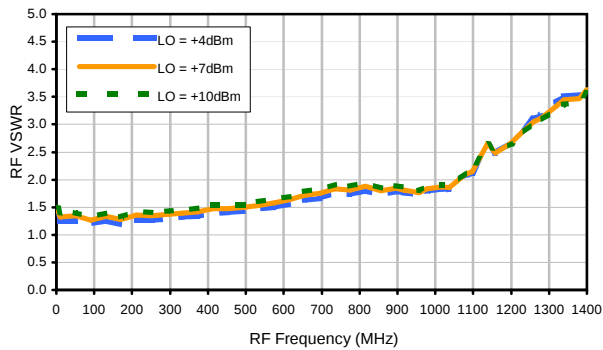
LO-IF Isolation



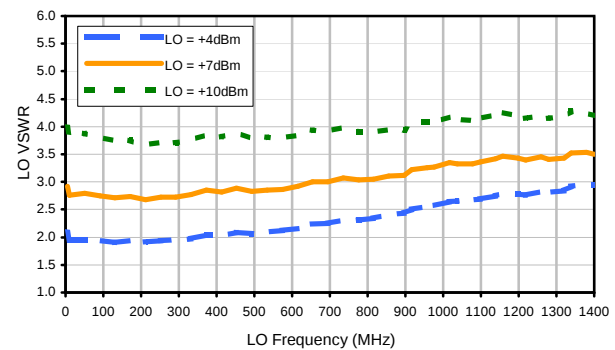
RF-IF Isolation



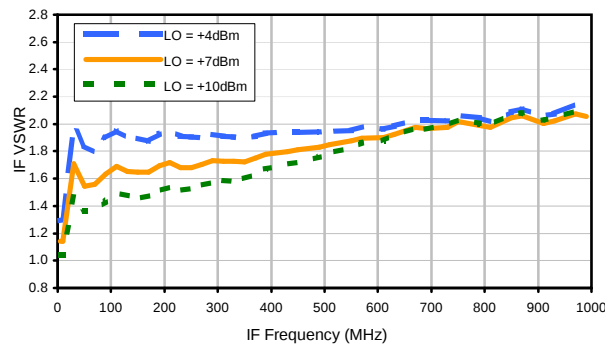
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	19	12	29	21	37	21	47	30	45
1	-	17	0	27	12	29	18	40	43	50	47	51
2	107	64	57	62	56	65	54	60	59	71	56	68
3	114	76	72	77	86	78	65	85	85	80	83	86
4	113	94	98	92	90	85	98	93	99	98	97	101
5	131	116	105	96	106	96	86	105	99	101	99	106
6	114	102	100	110	102	101	90	87	106	108	99	112
7	123	106	105	106	109	99	97	96	95	97	109	109
8	123	111	113	101	107	99	98	98	100	95	101	104
9	111	104	100	111	110	109	100	101	102	88	91	99
10	115	112	109	125	109	98	100	107	108	101	98	95
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; -20.75 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	28	23	43	32	50	33	67	45	57
1	-	17	0	28	12	29	19	44	43	54	49	55
2	99	58	48	58	47	60	46	56	54	65	49	67
3	120	62	49	59	52	56	45	64	47	59	65	67
4	109	70	72	70	74	69	71	72	62	68	68	82
5	114	81	73	73	63	80	59	79	58	71	61	84
6	110	104	85	88	82	88	84	90	80	84	82	87
7	115	95	97	92	78	84	79	97	81	92	83	92
8	121	106	102	111	103	100	98	96	98	96	100	98
9	118	118	113	113	104	101	106	99	97	109	89	105
10	114	111	109	118	109	121	106	107	102	111	100	100
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; -10.91 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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