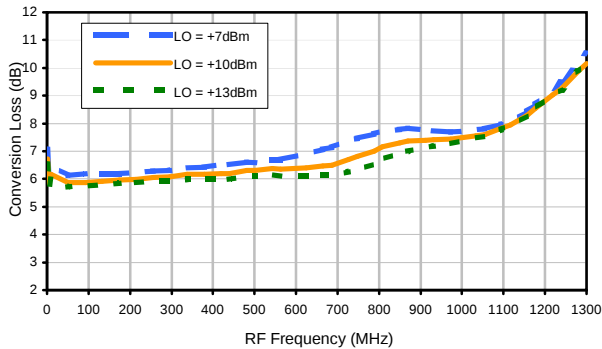


Frequency Mixer

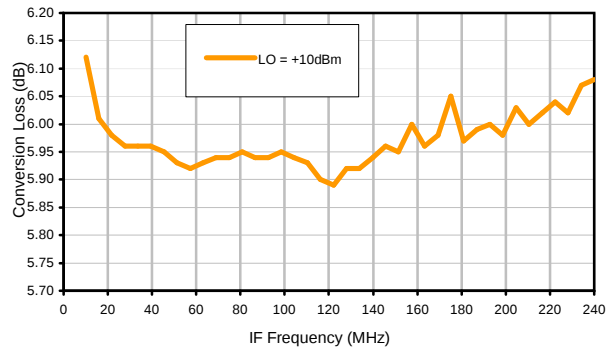
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Typical Performance Curves

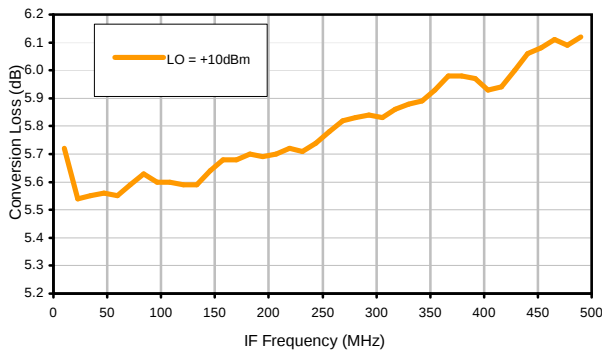
Conversion Loss @ IF=30MHz



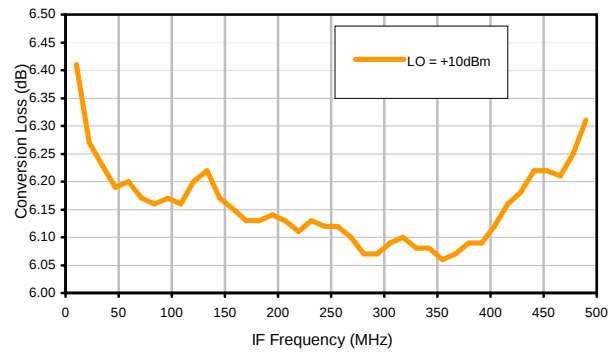
Conversion Loss vs. IF @ RF=250.1MHz



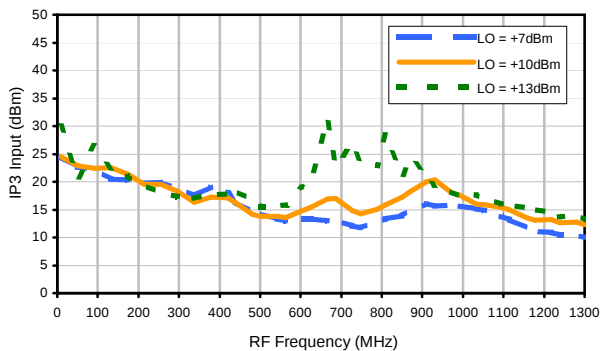
Conversion Loss vs. IF @ RF=10.1MHz



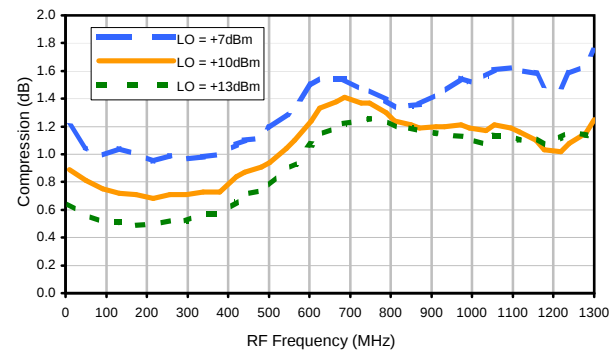
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input



Compression @ RF IN=+5dBm

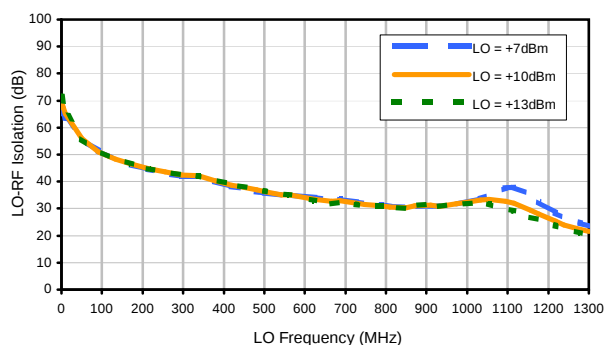


Frequency Mixer

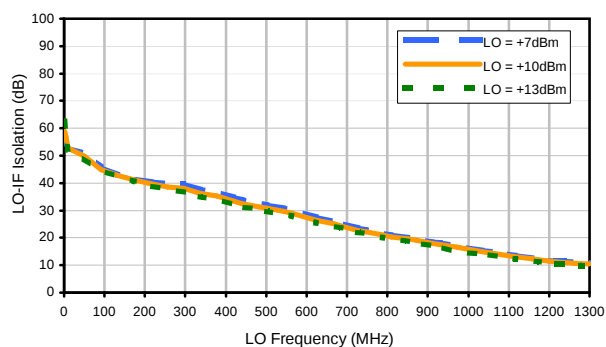
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Typical Performance Curves

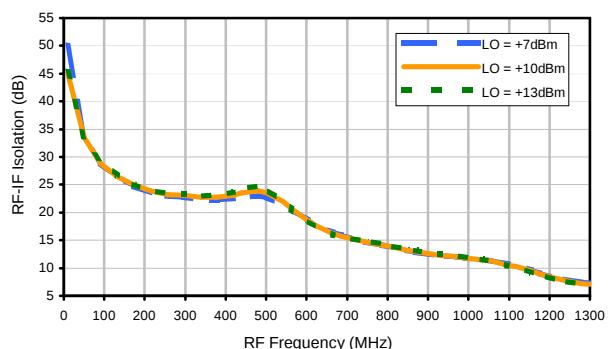
LO-RF Isolation



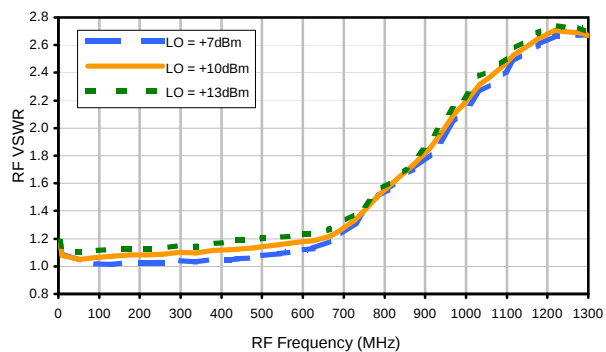
LO-IF Isolation



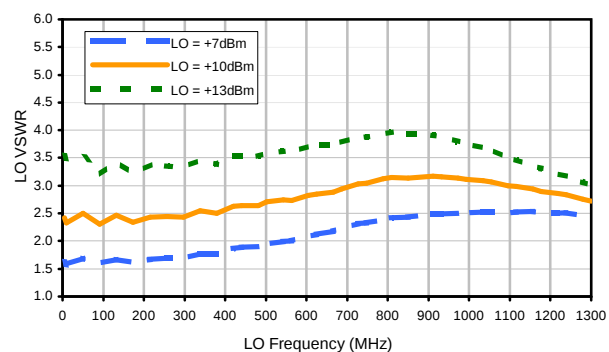
RF-IF Isolation



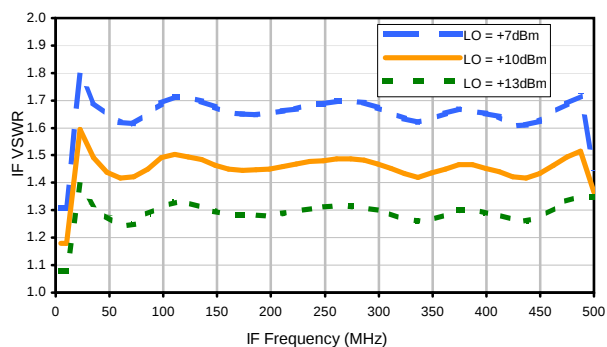
RF VSWR



LO VSWR



IF VSWR



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Frequency Mixer

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	9	19	11	25	11	31	18	37	20	39
1	-	17	+0	27	12	35	19	42	31	45	42	46
2	>100	69	48	69	49	67	49	74	53	76	68	71
3	>100	74	79	76	68	77	62	>80	64	>80	68	>80
4	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>100	>80	>80	>80	>80	>80	79	>80	>80	>80	>80	>80
7	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>100	>80	>80	>80	>80	>80	>80	>80	>80	68	>80	>80
10	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	64	>80
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 250.1 MHz; -14.00 dBm.
LO IN: 280.01 MHz; +10.00 dBm
IF OUT: 29.91 MHz; -20.13 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	29	22	36	22	42	28	47	31	48
1	-	17	+0	27	12	35	19	42	30	46	39	47
2	>100	60	41	61	42	57	42	68	45	65	62	70
3	>100	57	56	62	54	68	46	61	49	74	56	67
4	>100	76	61	85	61	83	64	77	63	87	69	89
5	>100	80	71	79	70	75	66	72	63	78	64	82
6	>100	>90	84	>90	84	>90	>90	>90	89	86	80	>90
7	>100	>90	>90	88	88	87	82	>90	79	85	80	>90
8	>100	>90	>90	>90	>90	>90	>90	>90	81	>90	87	>90
9	>100	>90	>90	>90	>90	>90	>90	>90	>90	69	>90	>90
10	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	77	>90
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 250.1 MHz; -4.00 dBm.
LO IN: 280.01 MHz; +10.00 dBm
IF OUT: 29.91 MHz; -10.25 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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