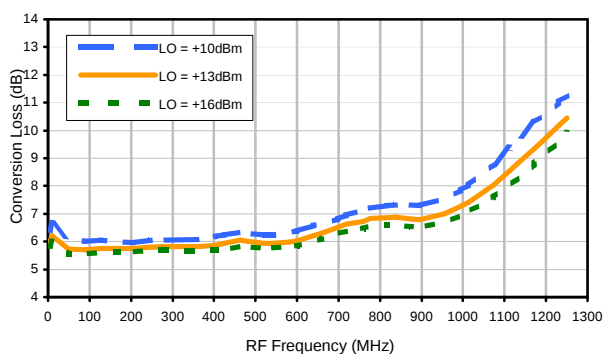


Frequency Mixer

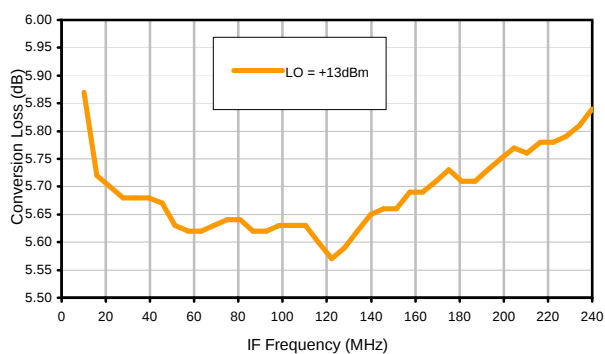
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Typical Performance Curves

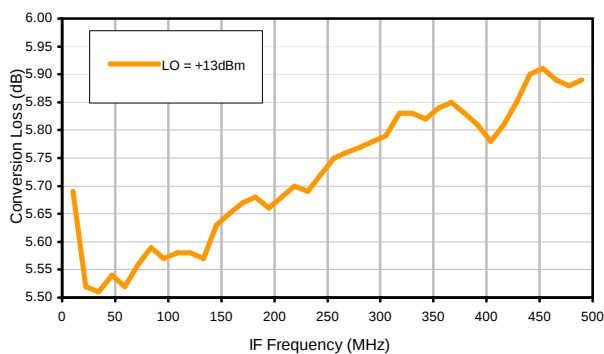
Conversion Loss @ IF=30MHz



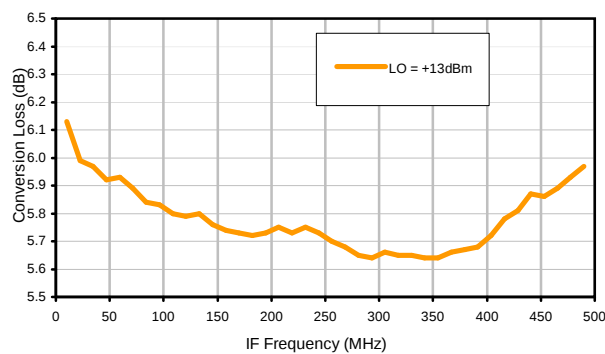
Conversion Loss vs. IF @ RF=250.1MHz



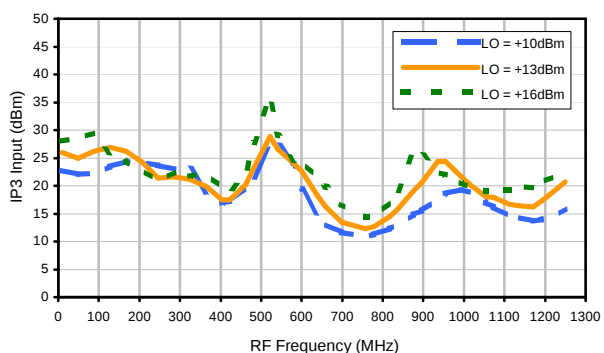
Conversion Loss vs. IF @ RF=10.1MHz



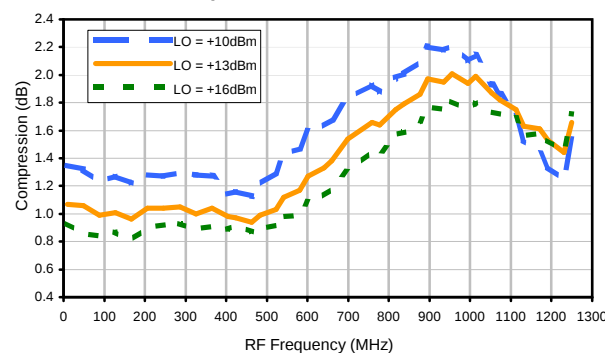
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input



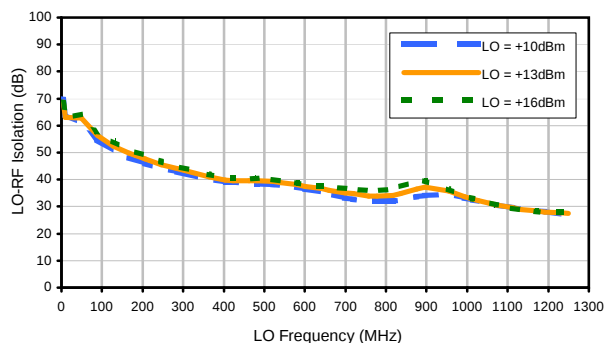
Compression @ RF IN=+9dBm



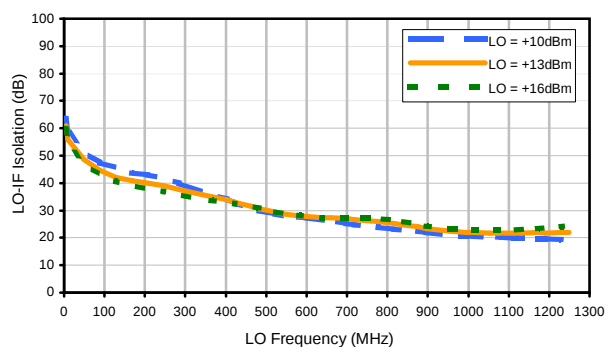
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Typical Performance Curves

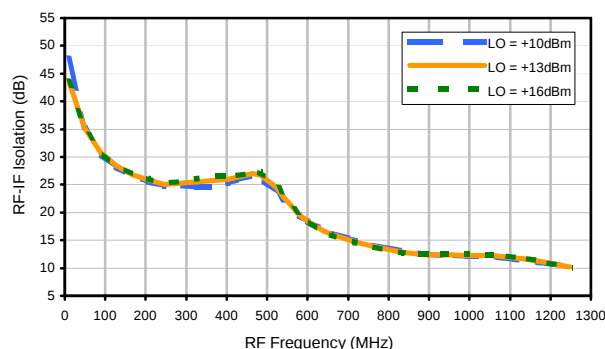
LO-RF Isolation



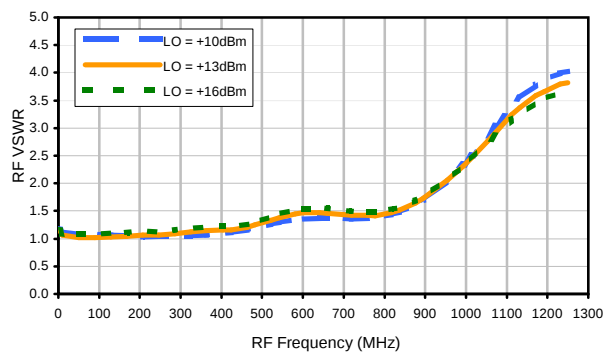
LO-IF Isolation



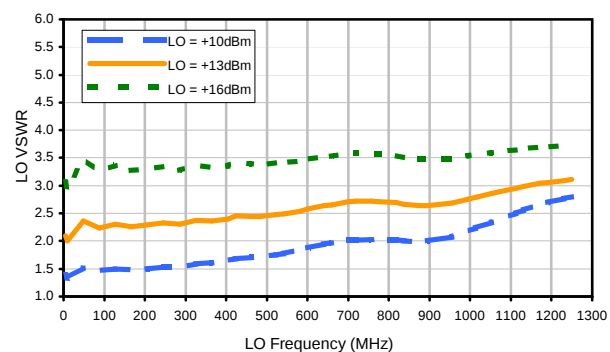
RF-IF Isolation



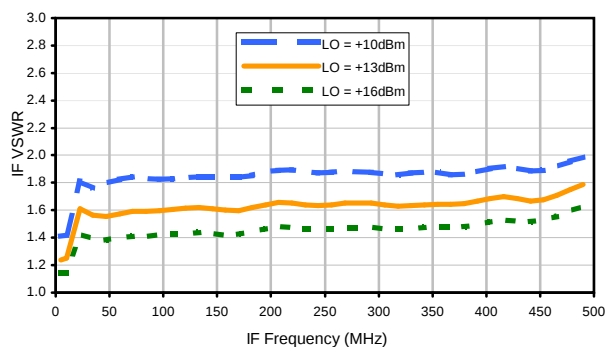
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	26	12	26	14	27	21	43	28	47
1	-	20	+0	29	12	32	17	30	25	53	45	43
2	98	68	45	62	45	63	44	57	43	53	49	70
3	>100	67	64	71	63	82	55	70	57	71	59	73
4	>100	88	>88	84	>88	87	84	>88	77	>88	83	86
5	>100	>88	>88	>88	85	>88	82	>88	80	>88	80	>88
6	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>100	>88	>88	>88	>88	>88	>88	>88	81	>88	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	74	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	76	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 250.1 MHz; -6.00 dBm.

LO IN: 280.01 MHz; +13.00 dBm

IF OUT: 29.91 MHz; -11.65 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	38	24	41	29	46	38	63	51	62
1	-	20	+0	29	12	34	19	32	27	54	48	54
2	89	57	40	67	39	54	39	50	39	50	45	62
3	>100	46	45	51	50	54	41	48	40	50	49	62
4	>100	67	59	65	57	64	55	60	50	64	49	62
5	>100	63	69	64	53	67	51	63	48	66	49	59
6	>100	74	66	80	70	75	70	75	66	70	61	75
7	>100	76	69	79	69	85	76	81	83	76	67	73
8	>100	85	83	80	82	82	85	82	89	78	77	75
9	>100	95	83	85	79	83	79	82	81	75	81	86
10	>100	>98	98	96	88	93	82	86	84	92	83	87
	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; +13.00 dBm

IF OUT: 29.91 MHz; -1.69 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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