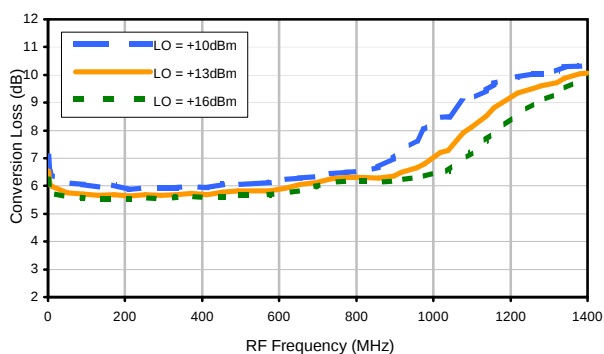


Frequency Mixer

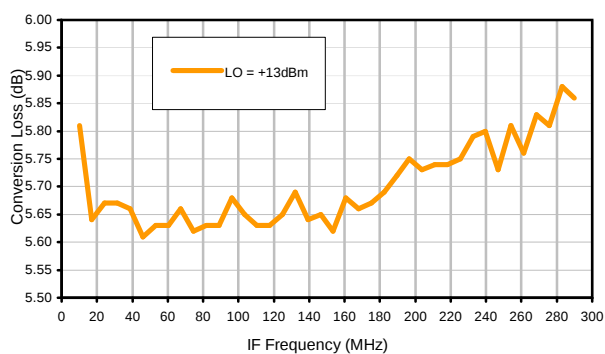
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Typical Performance Curves

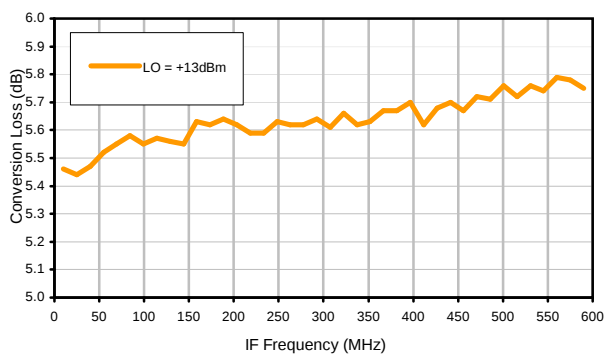
Conversion Loss @ IF=30MHz



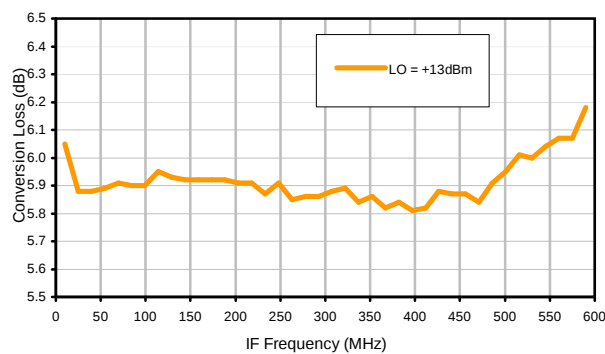
Conversion Loss vs. IF @ RF=300.1MHz



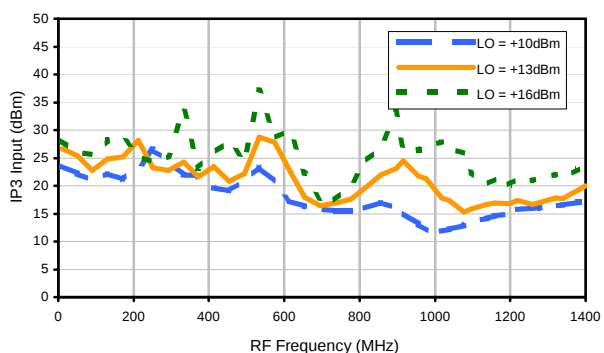
Conversion Loss vs. IF @ RF=10.1MHz



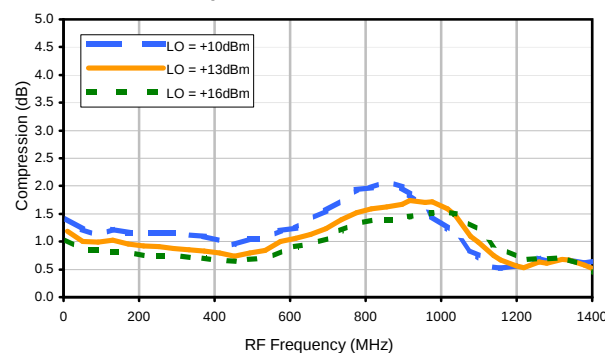
Conversion Loss vs. IF @ RF=600.1MHz



IP3 Input



Compression @ RF IN=+9dBm



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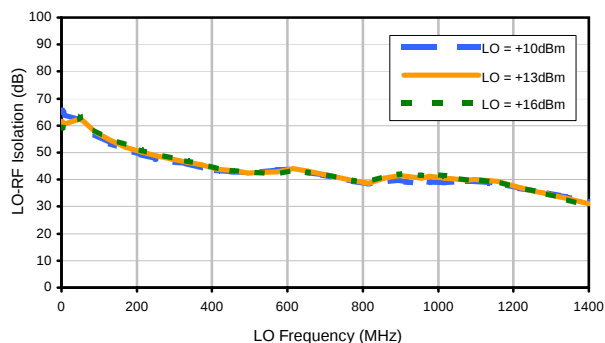


Frequency Mixer

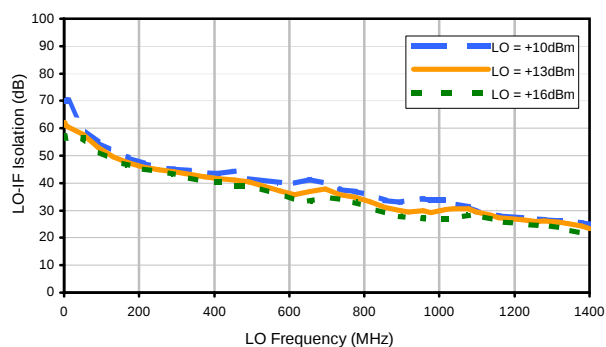
ZP-1MH+

Typical Performance Curves

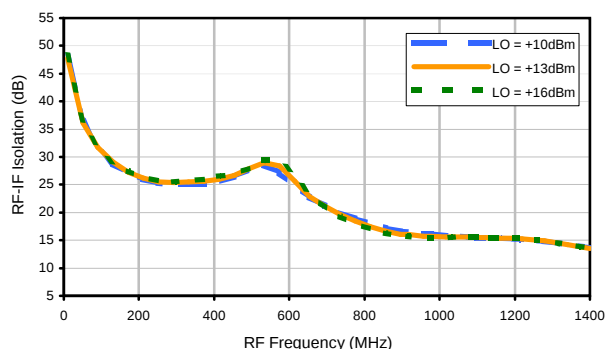
LO-RF Isolation



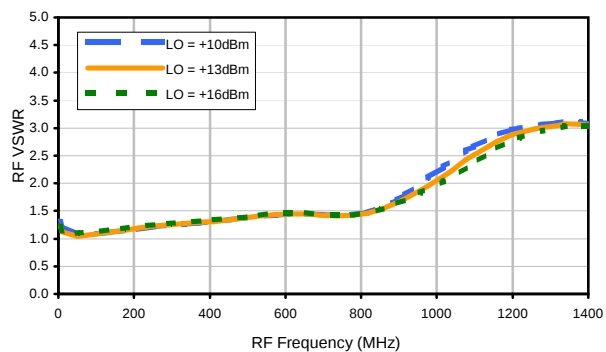
LO-IF Isolation



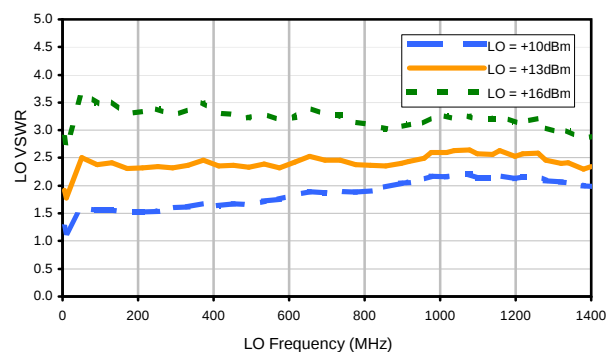
RF-IF Isolation



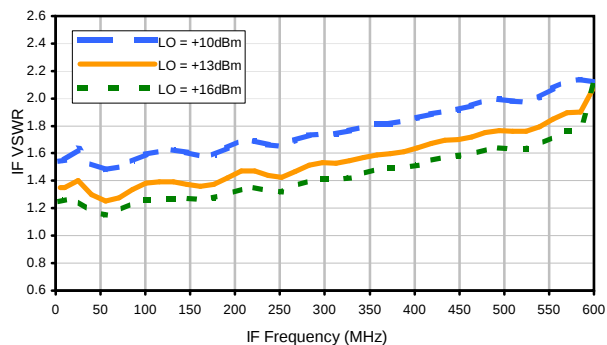
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	28	20	31	20	34	31	53	37	46
1	-	19	+0	28	12	33	19	33	34	45	39	43
2	>100	66	57	64	58	67	57	65	51	63	60	75
3	>100	72	74	75	63	72	56	84	55	69	57	77
4	>100	86	84	84	82	84	80	>88	80	>88	82	>88
5	>100	85	82	>88	82	87	78	88	80	>88	78	88
6	>100	>88	>88	>88	>88	>88	88	86	>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	>88	>88	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	80	>88
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 300.1 MHz; -6.00 dBm.

LO IN: 330.01 MHz; +13.00 dBm

IF OUT: 29.91 MHz; -11.98 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	38	32	45	33	51	52	61	63	65
1	-	19	+0	29	12	34	20	35	33	52	49	53
2	95	64	49	70	50	65	50	57	45	58	54	93
3	>100	48	47	51	48	53	43	52	47	61	51	60
4	>100	66	87	64	70	65	68	66	62	91	60	71
5	>100	70	66	59	55	60	52	58	49	63	48	63
6	>100	82	77	84	77	79	87	76	79	77	72	90
7	>100	86	70	77	66	79	71	75	79	71	72	71
8	>100	96	93	92	93	96	91	89	86	86	88	82
9	>100	94	83	87	76	83	77	83	81	75	89	76
10	>100	>98	>98	>98	94	89	87	86	86	89	>98	>98
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 300.1 MHz; 4.00 dBm.

LO IN: 330.01 MHz; +13.00 dBm

IF OUT: 29.91 MHz; -1.92 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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