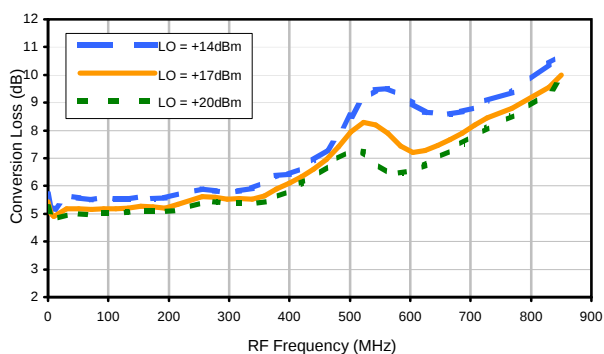


Frequency Mixer

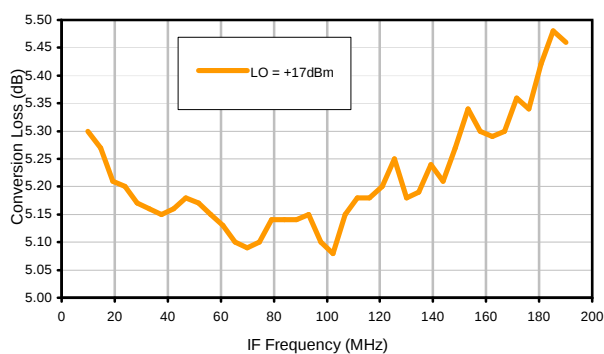
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Typical Performance Curves

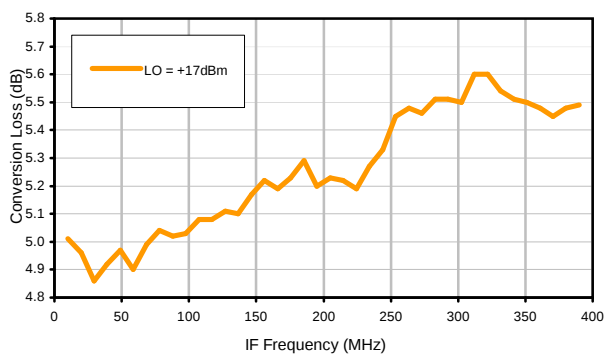
Conversion Loss @ IF=30MHz



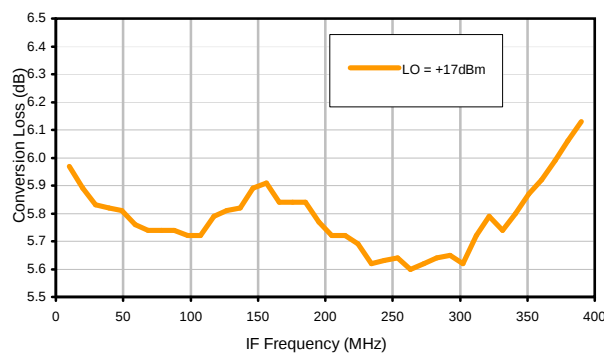
Conversion Loss vs. IF @ RF=200.1MHz



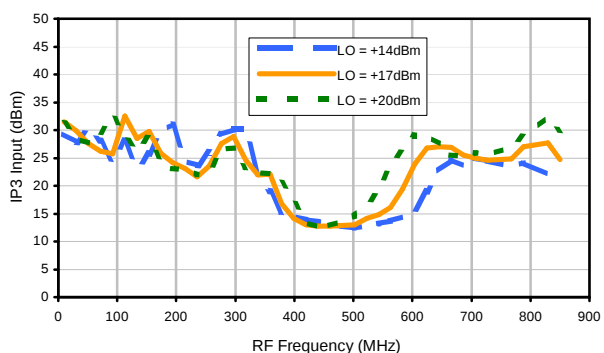
Conversion Loss vs. IF @ RF=10.1MHz



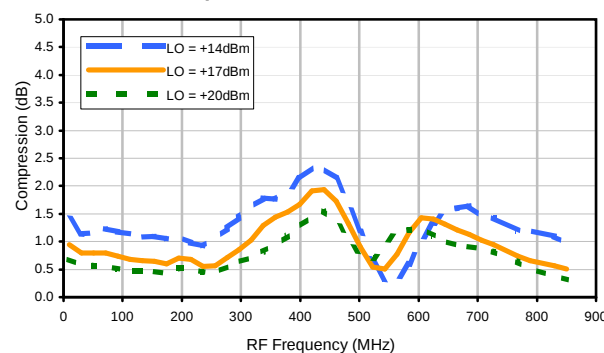
Conversion Loss vs. IF @ RF=400.1MHz



IP3 Input



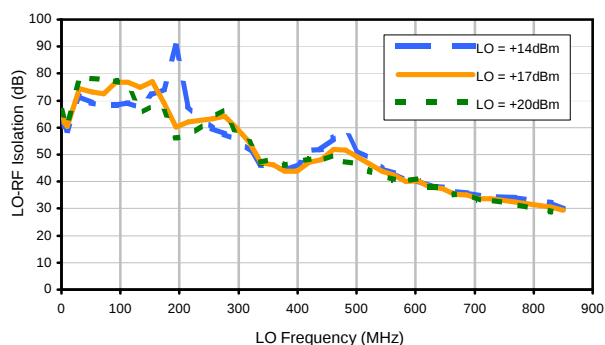
Compression @ RF IN=+14dBm



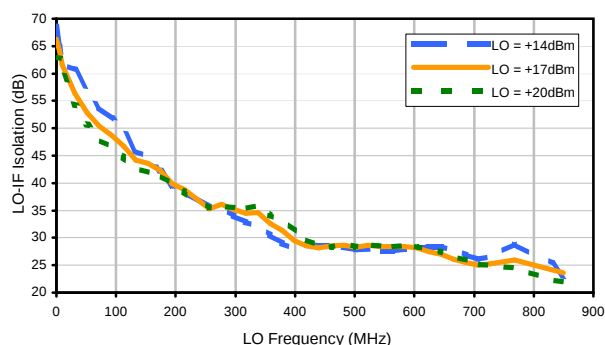
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Typical Performance Curves

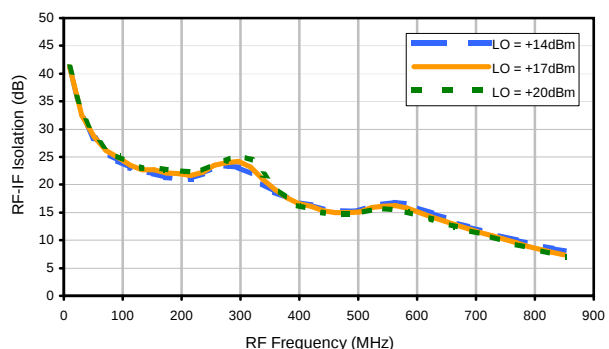
LO-RF Isolation



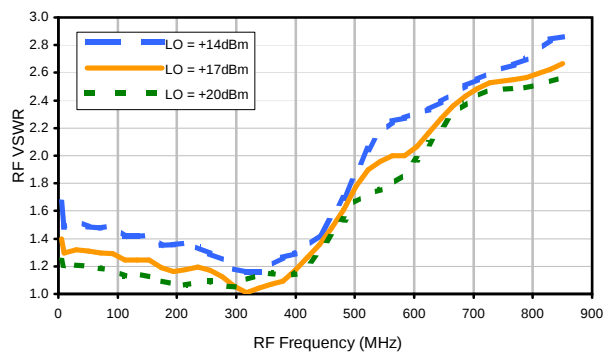
LO-IF Isolation



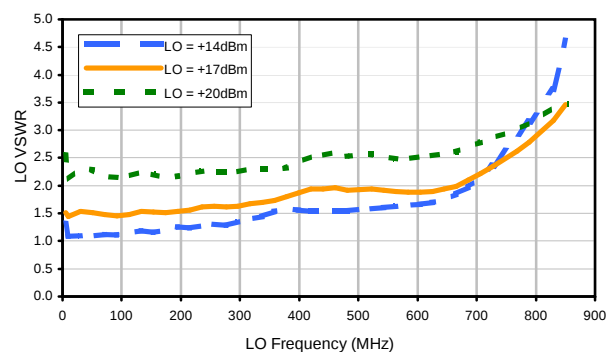
RF-IF Isolation



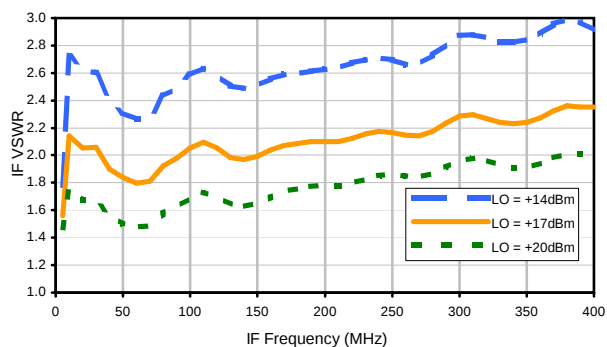
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	35	18	36	20	54	25	41	41	52
1	-	16	+0	25	13	38	24	36	38	48	30	51
2	98	63	54	62	51	76	54	65	48	68	55	62
3	>100	52	53	56	58	61	50	56	49	79	55	71
4	>100	83	79	81	77	80	71	76	71	81	77	79
5	>100	78	77	80	75	83	67	78	65	86	69	82
6	>100	>94	92	92	>94	90	>94	92	89	93	84	>94
7	>100	>94	>94	93	91	>94	90	90	87	91	85	90
8	>100	>94	>94	>94	>94	>94	>94	>94	82	>94	>94	>94
9	>100	>94	>94	>94	>94	>94	>94	>94	>94	87	>94	>94
10	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	92	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 200.1 MHz; -1.00 dBm.
LO IN: 230.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -6.18 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	44	30	45	33	61	40	60	52	62
1	-	17	+0	28	13	39	22	43	46	56	43	59
2	82	55	47	55	45	63	47	67	45	70	48	69
3	>100	41	37	43	39	44	38	45	52	53	51	58
4	>100	66	70	72	62	77	57	79	58	77	61	73
5	>100	62	52	53	55	53	50	61	47	53	52	71
6	>100	87	71	95	68	78	69	75	65	69	66	88
7	>100	89	75	65	61	61	64	64	60	65	57	68
8	>100	95	83	96	74	93	73	78	70	76	70	71
9	>100	80	82	85	89	73	69	71	70	75	64	67
10	>100	98	89	98	93	97	81	90	77	83	76	80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 200.1 MHz; 9.00 dBm.
LO IN: 230.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 3.72 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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