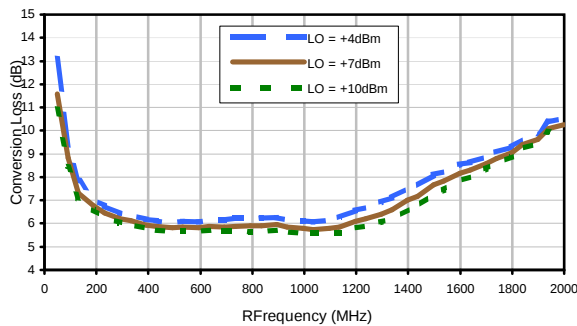


Frequency Mixer

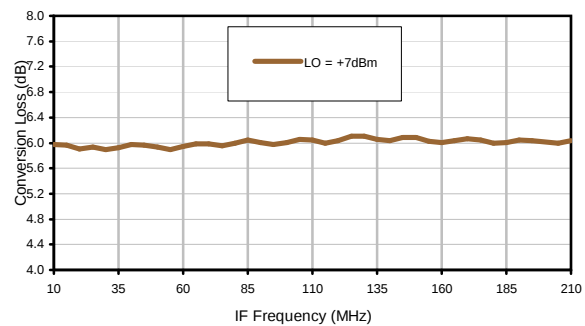
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Typical Performance Curves

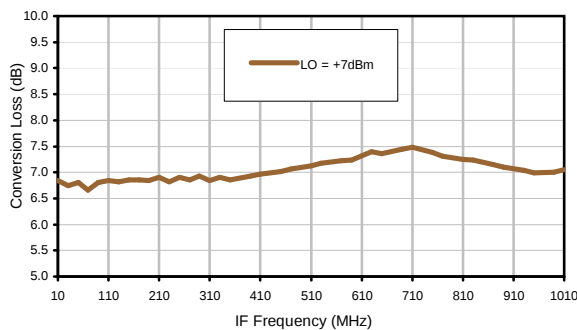
Conversion Loss @ IF=30 MHz



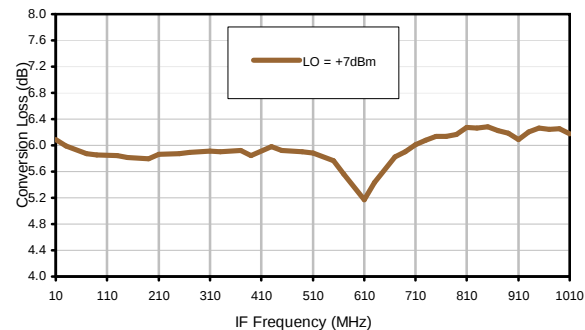
Conversion Loss vs. IF @ RF=789.9 MHz



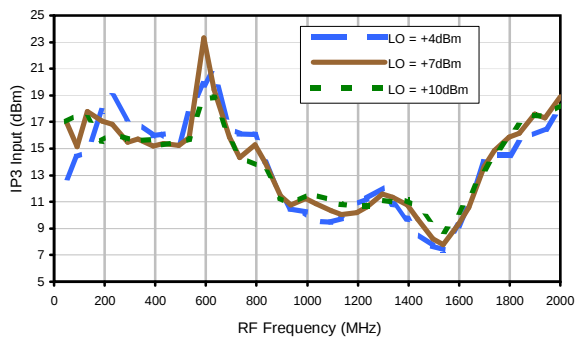
Conversion Loss vs. IF @ RF=189.9 MHz



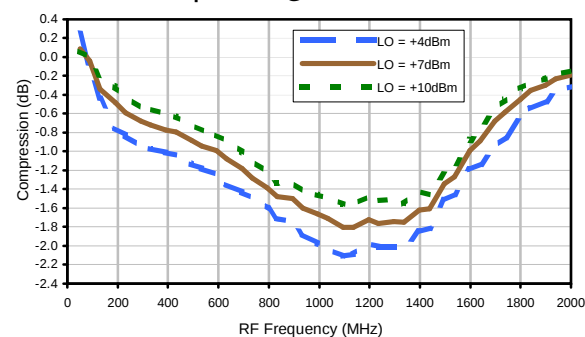
Conversion Loss vs. IF @ RF=1210.1 MHz



IP3 Input



Compression @ RF IN = +1 dBm



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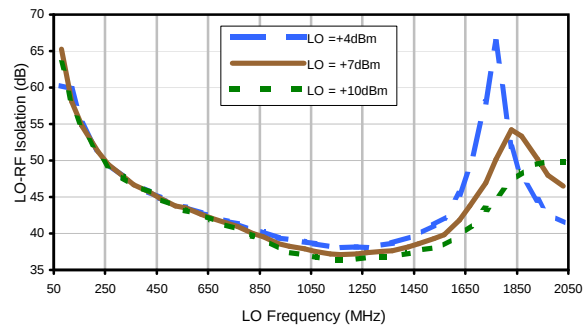


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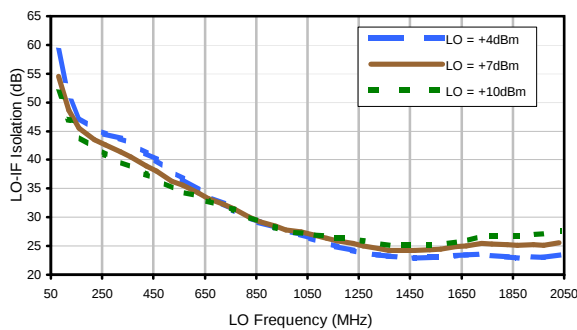


Typical Performance Curves

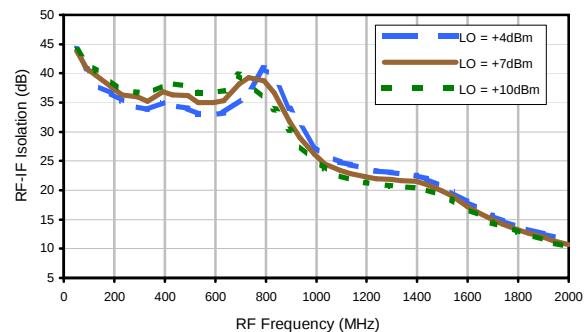
LO-RF Isolation



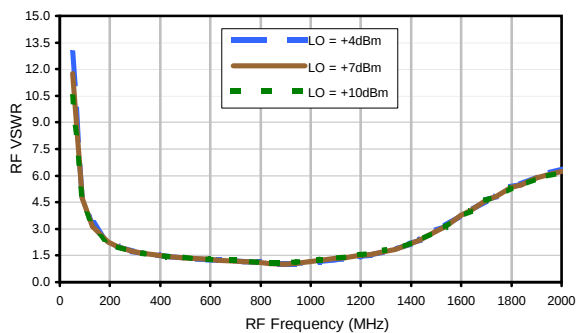
LO-IF Isolation



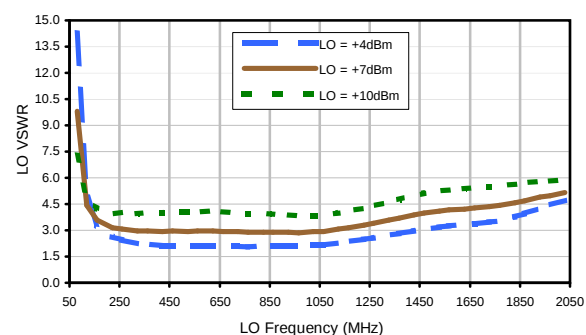
RF-IF Isolation



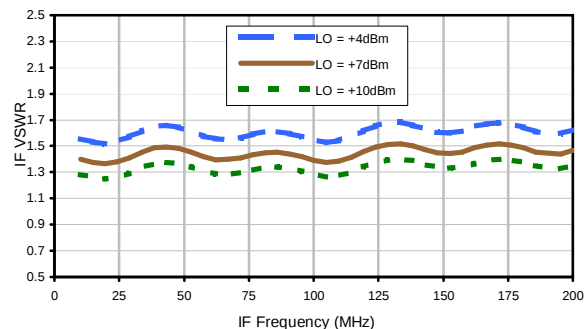
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER	(-dBm)		(-dBc)										
	0	-	-	5	18	11	37	26	34	18	44	42	66
	1	-	31	+0	27	11	38	20	46	42	41	55	56
	2	88	61	46	66	45	61	44	67	56	> 70	55	> 70
	3	> 90	68	> 70	69	> 70	> 70	65	> 70	> 70	> 70	> 70	> 70
	4	> 90	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70
	5	> 90	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70
	6	> 90	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70
	7	> 90	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70
	8	> 90	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70
	9	> 90	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70
	10	> 90	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70	> 70
RF CAL		0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 650.00 MHz; -14.00 dBm.
 LO IN: 680.00 MHz; +7.00 dBm
 IF OUT: 30.00 MHz; -20.17 dBm

RF HARMONICS ORDER	(-dBm)		(-dBc)										
	0	-	-	14	30	23	45	36	45	31	55	59	> 80
	1	-	32	+0	27	11	41	22	51	42	49	61	63
	2	68	45	37	60	35	50	39	62	54	60	48	72
	3	> 90	48	44	45	44	49	41	57	46	69	61	58
	4	> 90	64	58	58	57	60	54	62	52	73	64	74
	5	> 90	69	64	60	54	71	57	69	62	67	64	> 80
	6	> 90	> 80	> 80	75	68	70	69	76	68	72	79	79
	7	> 90	> 80	> 80	> 80	75	73	75	75	75	78	75	> 80
	8	> 90	> 80	> 80	> 80	> 80	> 80	78	> 80	> 80	> 80	76	> 80
	9	> 90	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80
	10	> 90	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80
	RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 650.00 MHz; -4.00 dBm.
 LO IN: 680.00 MHz; +7.00 dBm
 IF OUT: 30.00 MHz; -10.06 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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