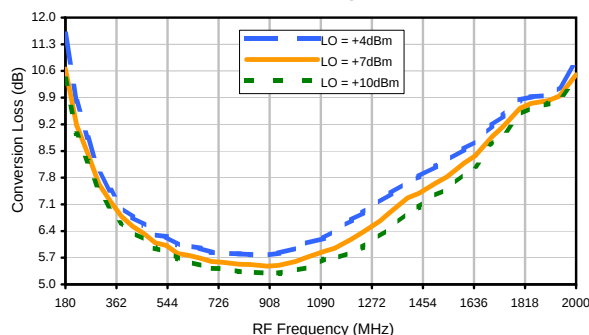


Frequency Mixer

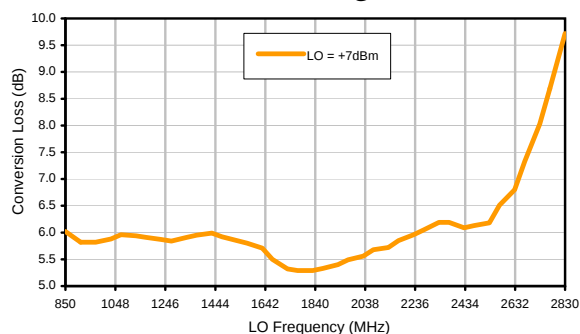
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Typical Performance Curves

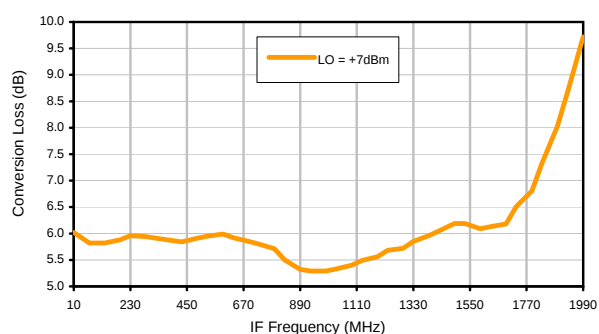
Conversion Loss @ IF=30MHz



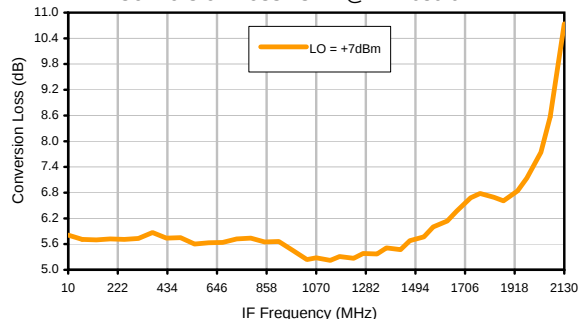
Conversion Loss vs. LO @ RF=839.9MHz



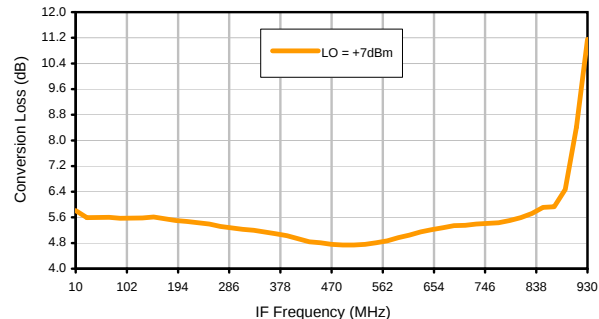
Conversion Loss vs. IF @ RF=839.9MHz



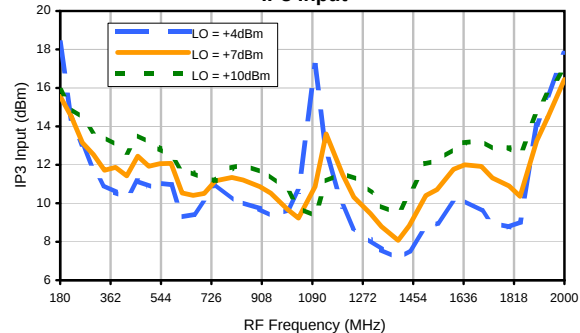
Conversion Loss vs. IF @ RF=689.9MHz



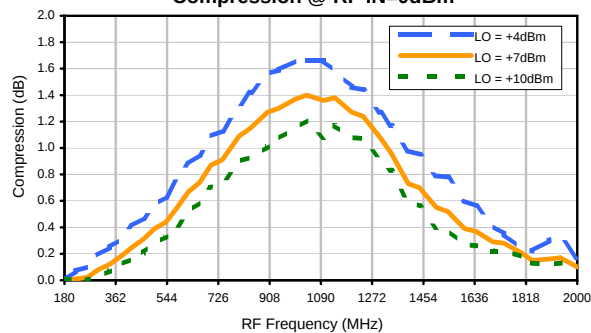
Conversion Loss vs. IF @ RF=1010.1MHz



IP3 Input



Compression @ RF IN=0dBm

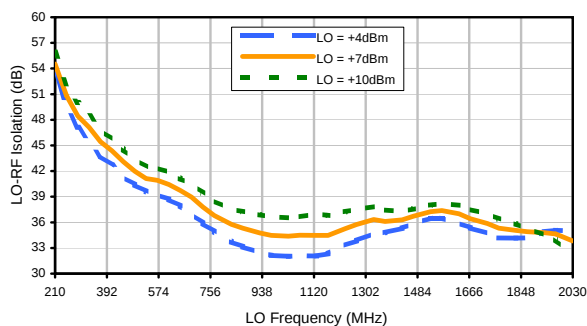


Frequency Mixer

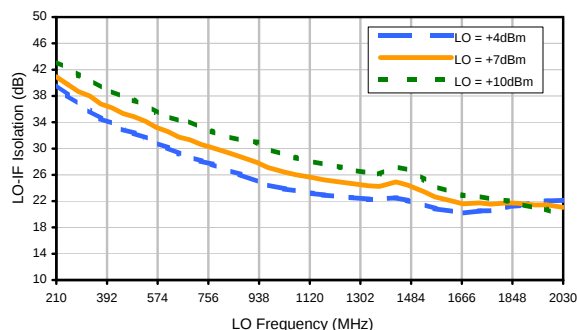
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Typical Performance Curves

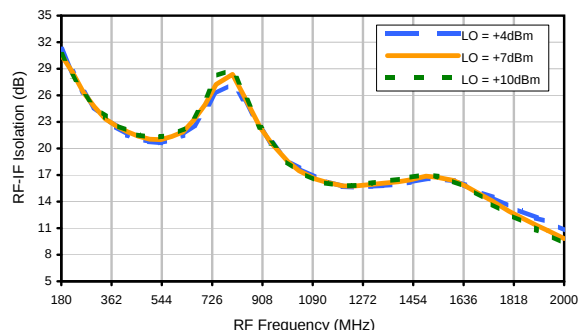
LO-RF Isolation



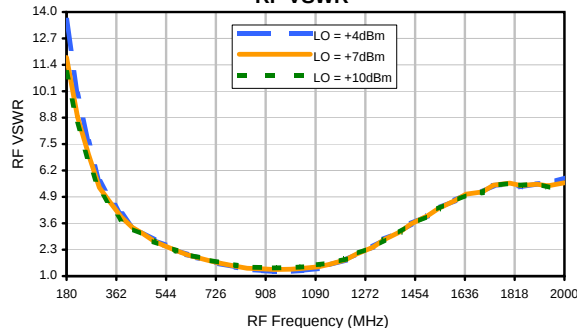
LO-IF Isolation



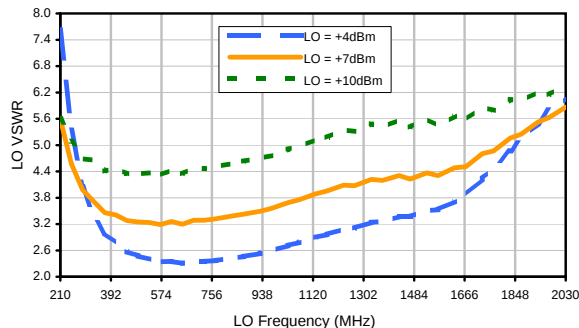
RF-IF Isolation



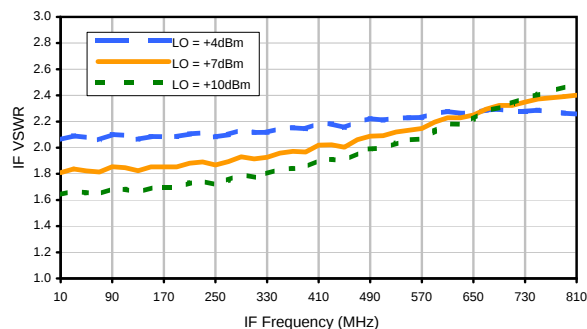
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	17	2	36	11	26	40	45	39	48
1	-	20	0	23	10	34	33	37	53	36	60	64
2	73	52	41	51	42	58	47	79	51	51	69	67
3	115	67	68	69	66	62	66	80	71	72	83	71
4	119	88	93	81	85	82	85	84	82	101	95	79
5	117	94	92	89	83	87	88	101	90	87	97	94
6	121	97	93	96	88	81	97	88	90	94	100	98
7	109	91	92	88	103	97	90	91	92	89	89	91
8	113	90	89	95	90	105	90	94	87	82	91	84
9	122	93	88	97	98	92	100	86	87	91	89	91
10	109	102	87	88	99	91	92	93	89	96	100	94
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 850 MHz; -15.00 dBm.
LO IN: 880 MHz; +7.00 dBm
IF OUT: 30 MHz; -20.62 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	28	13	45	23	37	59	62	51	64
1	-	19	0	26	11	38	33	42	54	43	63	72
2	73	42	33	45	33	53	41	70	43	52	65	68
3	115	45	44	64	44	42	38	57	63	52	63	54
4	119	81	65	80	52	59	57	61	57	76	61	57
5	117	70	80	69	58	61	55	62	59	68	66	69
6	121	75	90	88	75	72	69	68	64	75	75	82
7	109	80	84	91	85	77	75	76	72	74	72	81
8	113	96	91	105	96	94	88	85	78	80	78	77
9	122	104	101	102	99	94	103	97	84	85	86	85
10	109	114	100	101	96	100	98	101	99	92	86	87
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 850 MHz; -5.00 dBm.
LO IN: 880 MHz; +7.00 dBm
IF OUT: 30 MHz; -10.59 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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