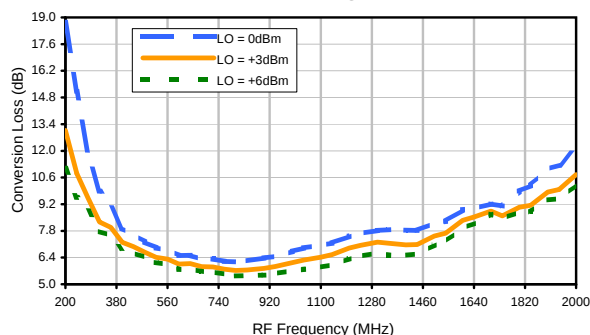


Frequency Mixer

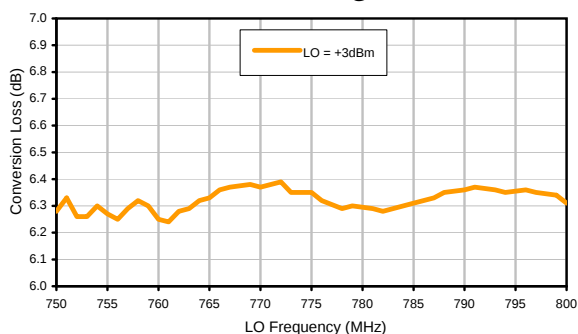
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Typical Performance Curves

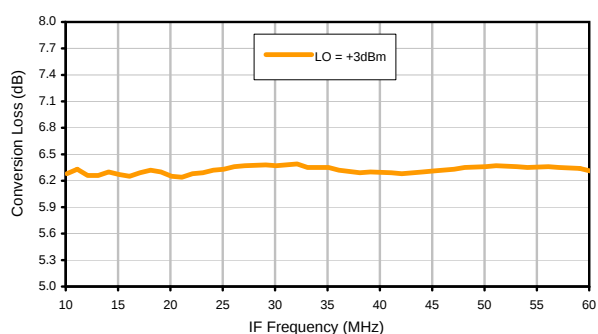
Conversion Loss @ IF=30MHz



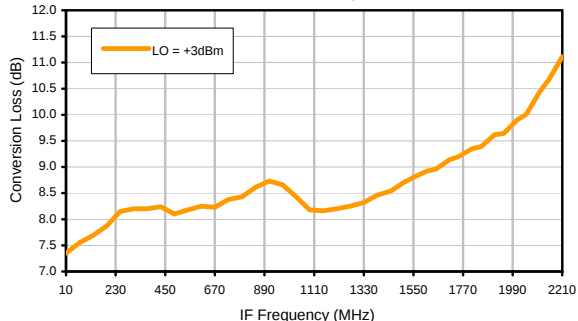
Conversion Loss vs. LO @ RF=739.9MHz



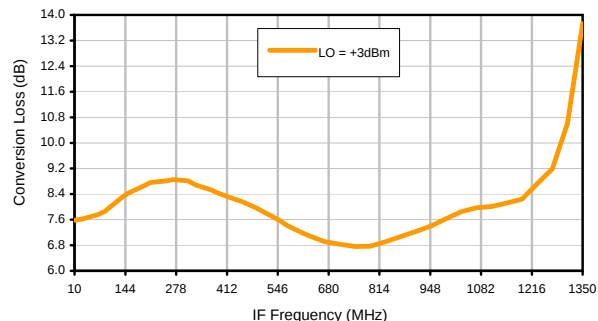
Conversion Loss vs. IF @ RF=739.9MHz



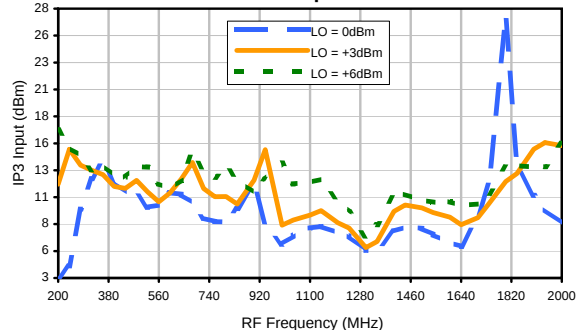
Conversion Loss vs. IF @ RF=389.9MHz



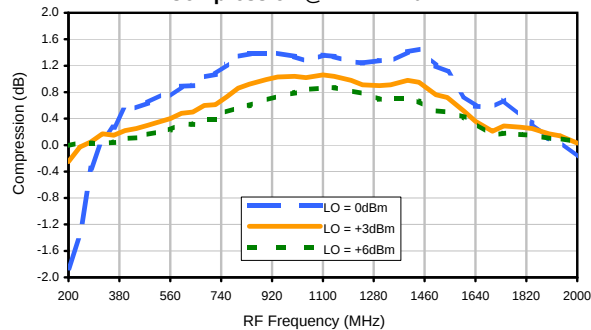
Conversion Loss vs. IF @ RF=1510.1MHz



IP3 Input



Compression @ RF IN=-1dBm

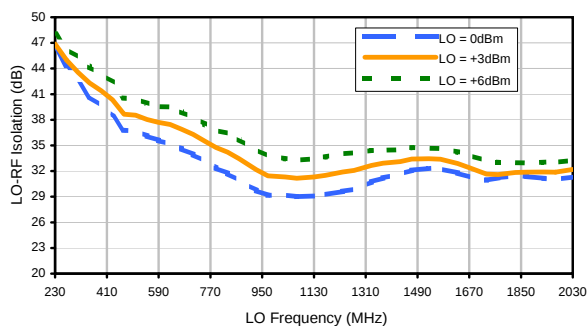


Frequency Mixer

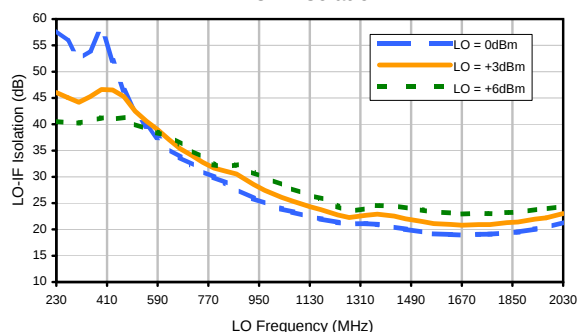
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Typical Performance Curves

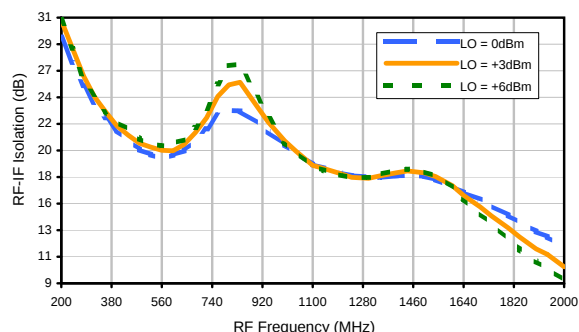
LO-RF Isolation



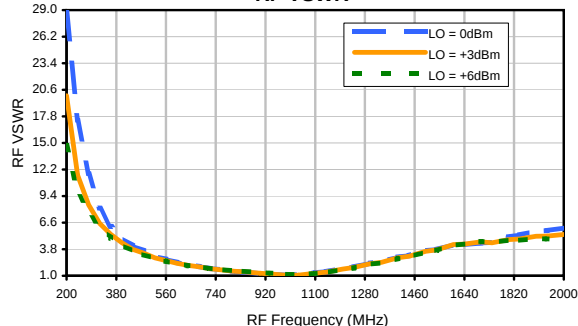
LO-IF Isolation



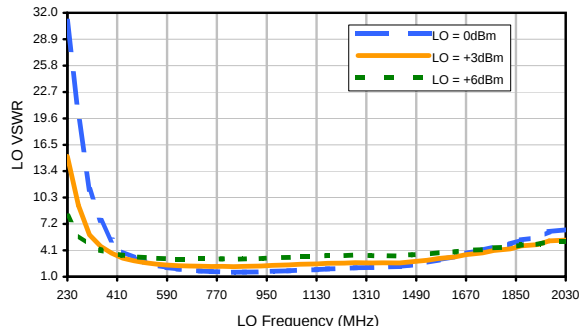
RF-IF Isolation



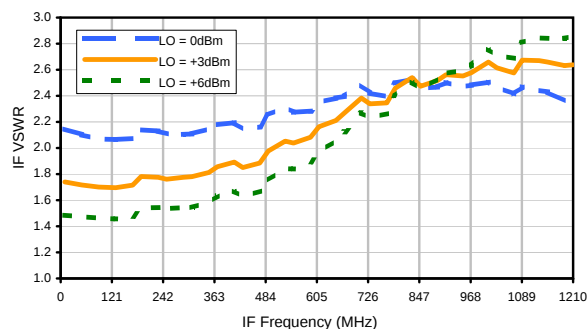
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	0	18	5	32	21	48	47	45	35	40
1	-	16	0	23	12	37	34	37	49	59	52	50
2	43	46	49	50	43	73	45	57	58	80	79	70
3	38	64	57	57	58	55	54	69	71	84	79	79
4	70	84	81	83	77	80	76	93	76	86	91	87
5	55	99	87	93	88	92	83	88	87	87	81	85
6	92	79	96	83	87	89	86	92	86	82	87	83
7	79	97	86	85	90	84	90	95	85	88	85	93
8	89	80	82	88	84	82	92	84	88	95	88	83
9	100	81	86	94	85	102	86	87	89	83	89	88
10	87	81	84	80	89	83	94	89	86	84	90	92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 950 MHz; -16 dBm
LO IN: 980 MHz; +3.00 dBm
IF OUT: 30 MHz; -21.90 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	31	16	45	34	62	58	56	51	63
1	-	16	0	25	13	41	36	41	59	65	62	58
2	43	37	36	43	33	50	39	53	50	70	76	66
3	38	45	49	41	52	40	42	56	52	55	66	76
4	70	81	56	59	75	57	63	69	56	61	72	85
5	55	70	65	67	55	54	52	53	56	69	67	79
6	92	88	90	92	72	83	66	70	66	71	73	79
7	79	95	89	84	82	82	70	72	66	67	67	90
8	89	94	100	101	103	103	87	82	81	82	92	80
9	100	96	98	95	96	90	99	86	83	88	85	78
10	87	93	96	96	99	93	101	109	92	103	93	88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 950 MHz; -6 dBm
LO IN: 980 MHz; +3.00 dBm
IF OUT: 30 MHz; -11.90 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.