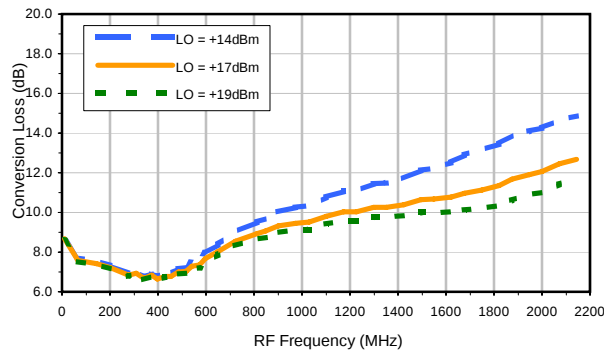


Frequency Mixer

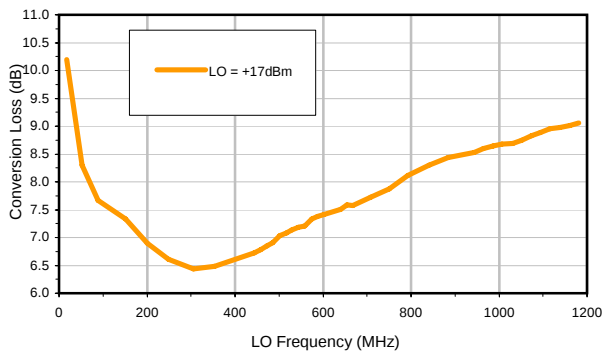
Typical Performance Curves

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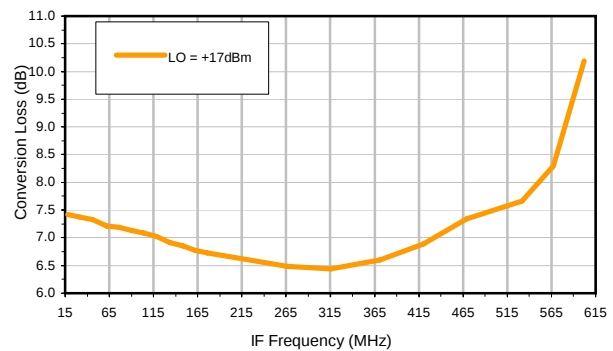
Conversion Loss @IF=30 MHz



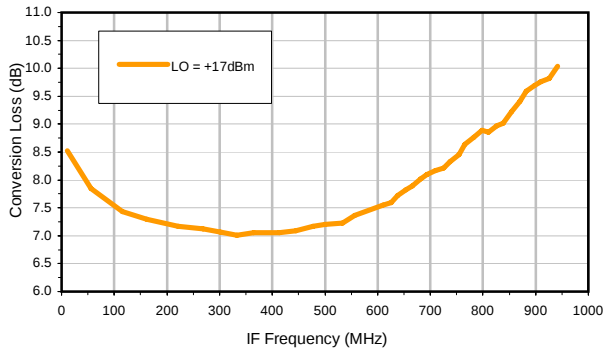
Conversion Loss vs. LO @ RF=620 MHz



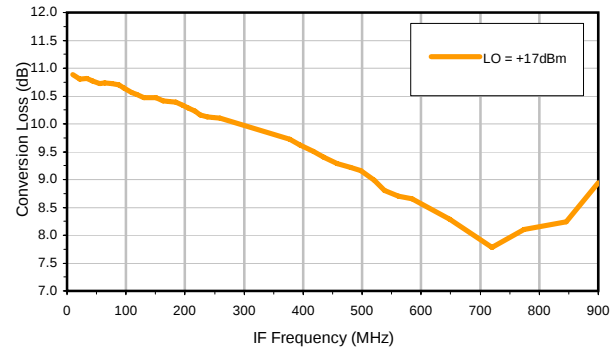
Conversion Loss vs. IF @ RF=620 MHz



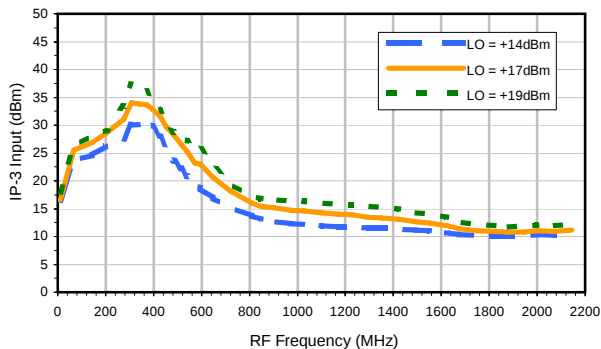
Conversion Loss vs. IF @ RF=40 MHz



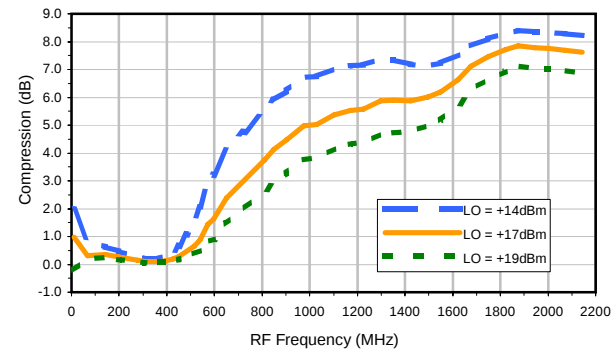
Conversion Loss vs. IF @ RF=1200 MHz



IP-3 Input



Compression @RF IN=+14 dBm

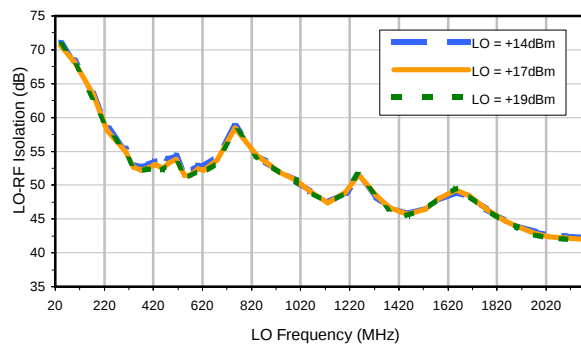


Frequency Mixer

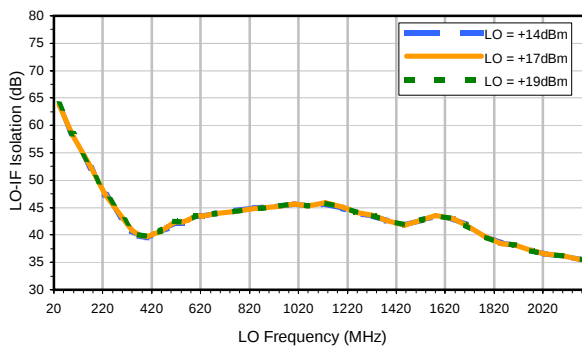
Typical Performance Curves

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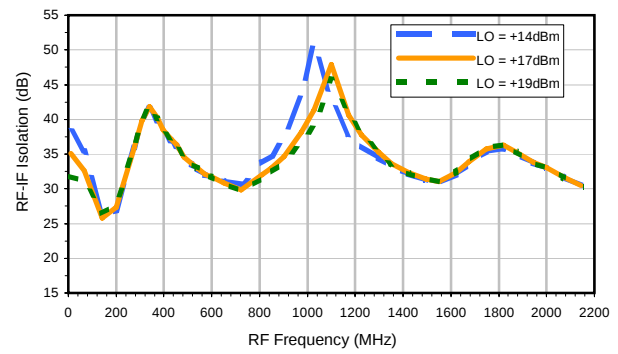
LO-RF Isolation



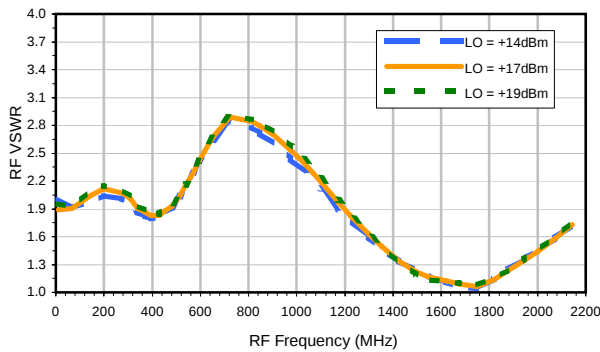
LO-IF Isolation



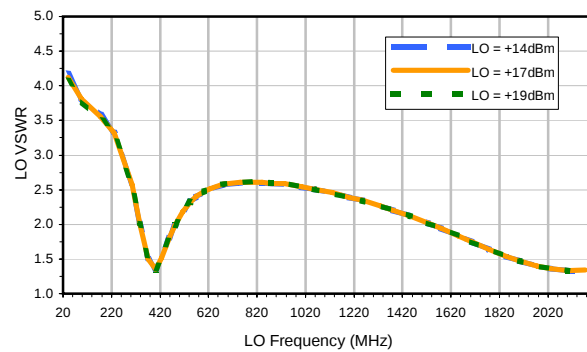
RF-IF Isolation



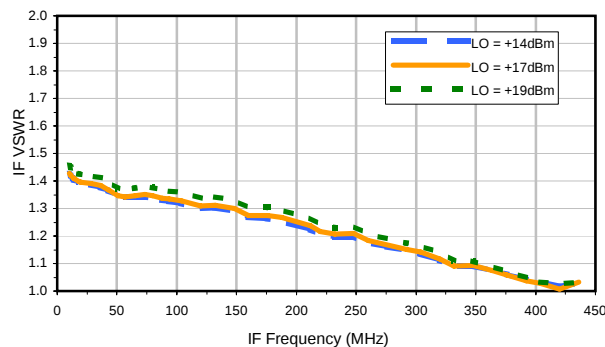
RF VSWR



LO VSWR



IF VSWR



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IF/RF MICROWAVE COMPONENTS

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	--	14.81	30.39	28.85	29.70	43.13	61.25	58.47	61.39	43.07	59.12
1	---	34.66	--	42.71	10.90	50.78	23.13	68.81	42.42	63.44	64.48	68.87
2	100.31	75.09	60.22	68.88	67.79	60.85	69.30	68.04	77.06	79.44	96.43	103.81
3	108.75	89.84	67.06	88.05	76.47	95.32	64.49	90.03	72.34	104.55	80.92	107.80
4	118.45	108.18	107.80	108.43	107.26	113.48	105.33	112.54	100.87	109.21	107.86	117.68
5	116.70	117.68	107.44	117.11	97.02	112.74	96.93	112.77	96.35	116.23	101.55	115.66
6	116.86	117.24	116.87	117.39	104.10	116.26	99.89	113.83	102.65	112.86	102.09	117.42
7	117.05	117.00	117.43	118.84	113.99	117.90	106.82	114.18	105.65	113.73	106.36	118.62
8	117.07	117.60	116.74	117.97	118.77	117.71	112.60	118.35	104.88	112.92	111.28	113.88
9	117.34	117.35	117.56	117.72	118.17	117.04	118.27	118.48	117.40	113.38	113.70	113.64
10	116.93	117.36	117.78	116.62	117.63	118.41	117.71	118.76	116.31	118.60	113.50	114.47
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 395.00 MHz; 0 dBm.
 LO IN: 365.00 MHz; +17.00 dBm
 IF OUT: 30.00 MHz; -6.75 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	--	25.07	43.55	38.88	39.88	52.32	64.21	67.96	74.65	56.61	60.17
1	---	34.51	--	43.02	11.16	53.04	23.85	65.72	45.12	63.42	68.45	65.89
2	80.45	65.52	50.66	57.15	60.82	51.63	61.72	60.31	69.71	72.62	84.99	91.68
3	79.97	79.13	50.97	76.24	58.12	91.75	45.17	70.30	53.07	81.73	63.75	88.72
4	118.22	89.20	79.15	82.72	73.56	81.57	74.92	81.36	78.27	86.51	88.13	89.05
5	115.17	107.74	80.10	95.41	71.32	90.82	72.98	94.89	72.11	96.23	75.80	103.45
6	118.21	116.68	106.42	105.58	95.16	98.19	91.83	95.86	93.31	95.10	91.98	99.43
7	116.98	119.27	108.96	120.60	96.18	113.72	88.72	109.40	91.66	116.85	87.22	106.94
8	115.41	119.44	118.73	119.37	119.88	115.75	105.65	107.35	100.94	104.91	102.56	104.11
9	117.82	119.68	115.28	119.16	119.39	119.18	115.94	118.34	107.90	113.54	112.27	114.82
10	117.56	116.07	120.26	119.74	119.06	119.23	119.41	121.28	119.41	114.39	113.14	114.53
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 395.00 MHz; 10 dBm.
 LO IN: 365.00 MHz; +17.00 dBm
 IF OUT: 30.00 MHz; 3.27 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 represents the Harmonics level of the RF Input Signal to the mixer