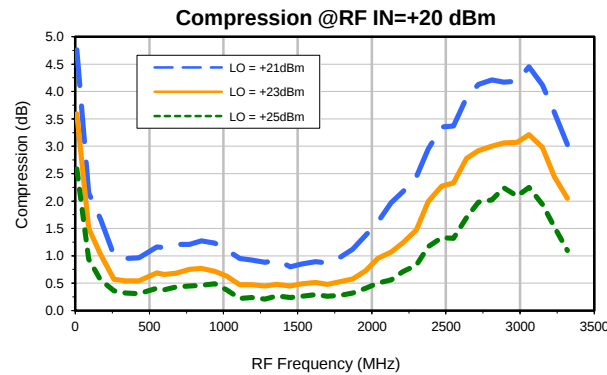
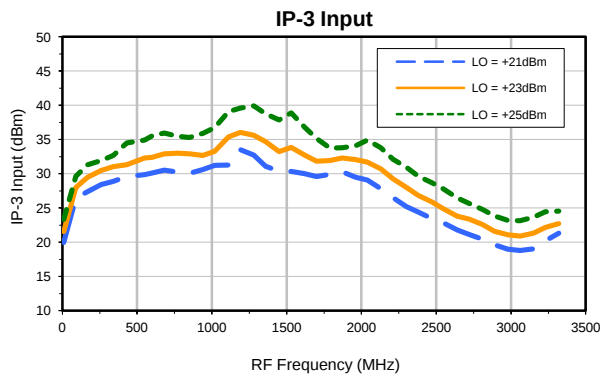
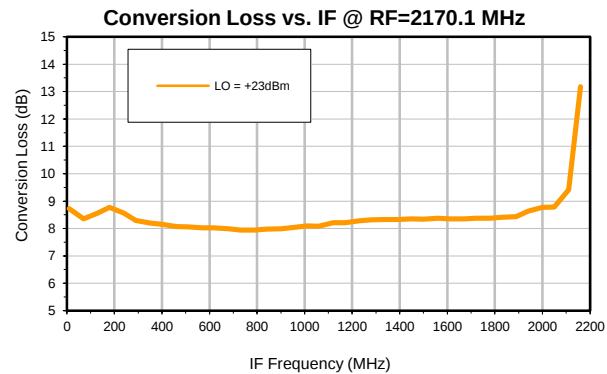
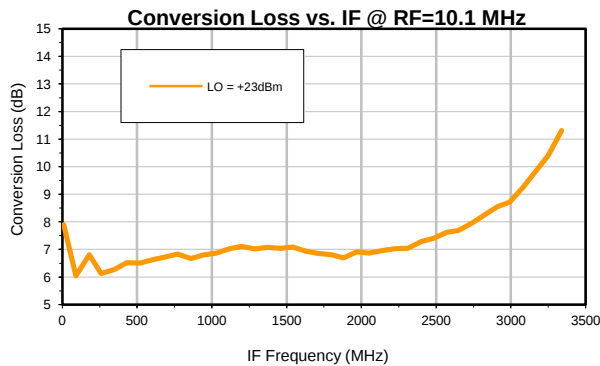
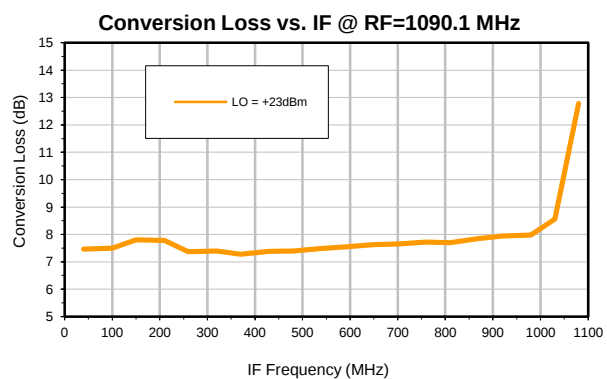
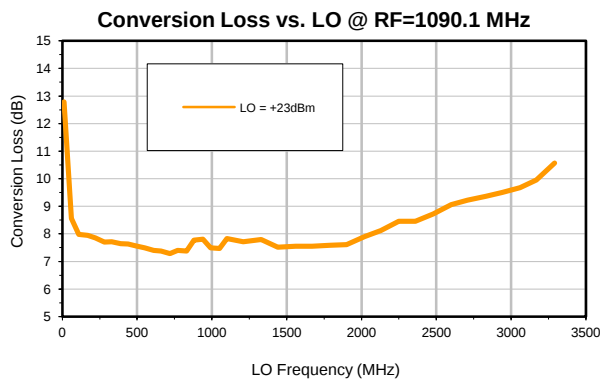
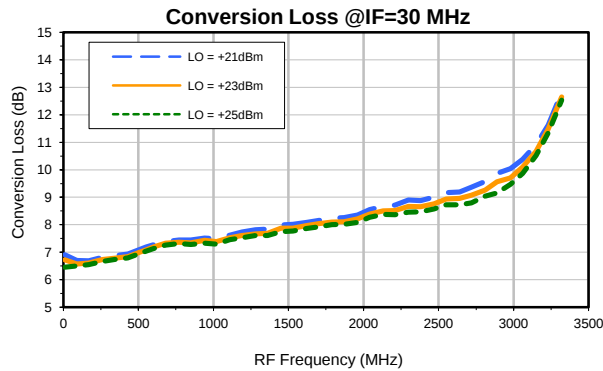


Frequency Mixer

Typical Performance Curves

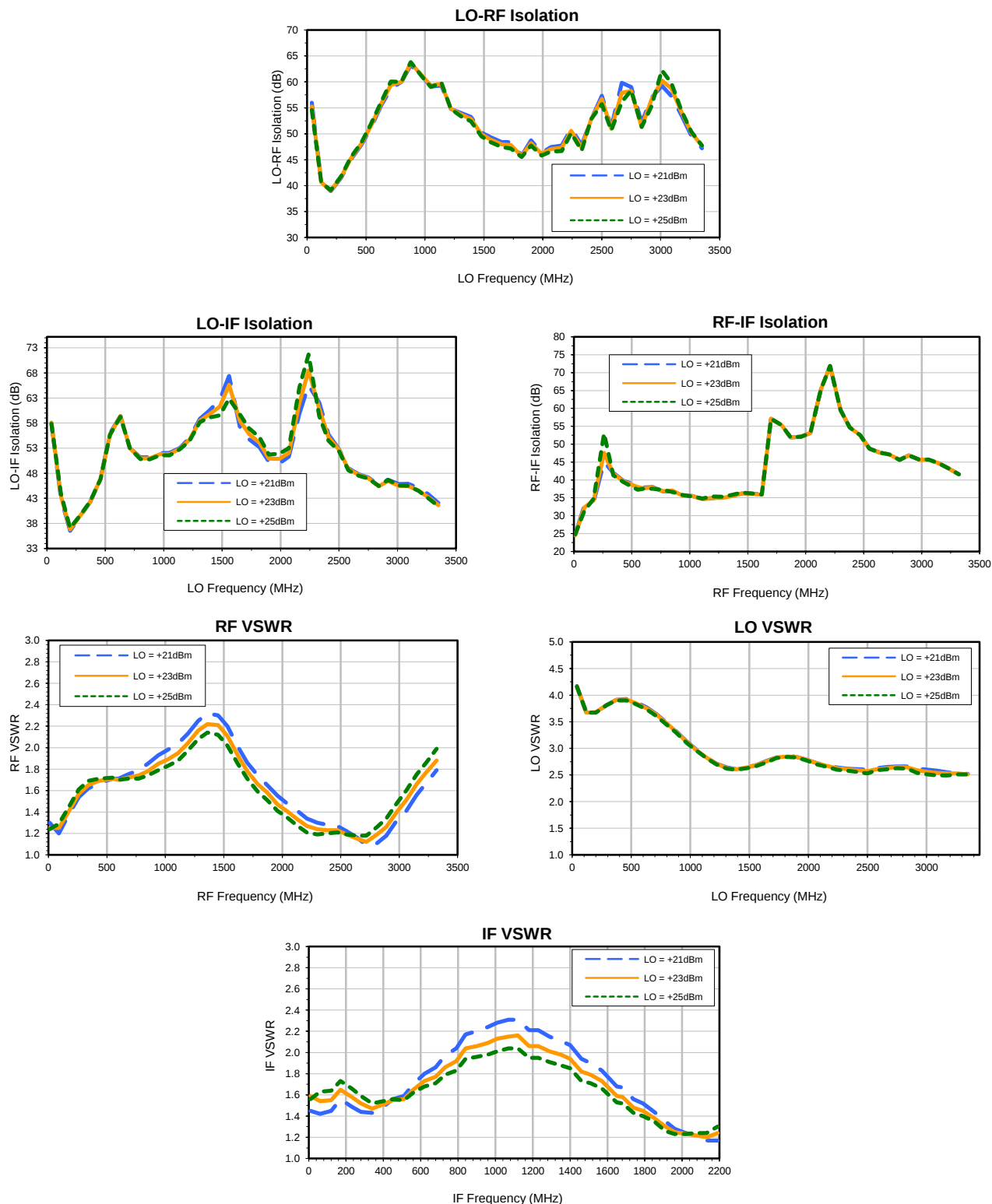
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Frequency Mixer

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Typical Performance Curves



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Frequency Mixer

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	19.54	38.03	25.87	21.06	40.01	38.15	38.45	50.35	51.58	51.74
1	---	25.32	---	38.05	12.17	35.02	34.02	49.62	51.02	56.65	48.52	56.44
2	93.00	47.01	79.36	44.55	64.77	46.53	59.39	49.24	68.00	57.29	70.68	63.34
3	118.69	105.07	88.20	98.13	82.46	97.65	79.81	94.12	82.80	98.79	87.56	99.44
4	120.52	115.90	114.90	116.05	113.54	105.19	116.45	117.00	115.33	113.88	115.11	113.79
5	120.90	115.39	114.57	115.52	116.65	117.76	104.31	116.74	112.67	115.34	116.96	113.02
6	120.75	115.37	113.57	114.81	112.81	117.30	116.42	111.20	117.55	115.74	115.69	113.73
7	120.30	116.44	115.33	116.19	116.32	113.88	115.59	117.94	116.24	114.18	114.55	115.44
8	118.79	115.58	116.46	115.40	114.53	115.76	115.88	115.85	115.04	111.92	115.92	116.10
9	120.45	114.78	115.45	114.68	116.15	116.30	116.19	115.16	115.53	116.71	114.86	115.50
10	119.03	114.98	114.52	112.86	115.76	115.76	112.57	113.72	114.46	117.69	114.18	117.36
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1090 MHz; 0 dBm.

LO IN: 1120 MHz; +23.00 dBm

IF OUT: 30 MHz; - 7.26 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	27.42	48.17	36.67	30.81	51.05	46.98	49.10	60.10	62.80	58.80
1	---	26.53	---	40.91	12.20	36.48	33.20	49.90	49.13	56.22	50.93	58.56
2	73.12	36.78	67.60	34.92	55.27	36.98	50.23	39.63	59.83	47.78	62.69	53.70
3	96.44	84.47	64.52	78.27	62.18	78.86	61.11	74.86	62.40	80.78	66.58	80.62
4	120.15	81.08	91.03	82.76	92.08	82.38	98.63	88.92	95.25	84.65	107.46	83.76
5	117.92	108.33	97.54	103.81	89.23	105.36	96.95	115.08	87.75	102.18	91.25	123.77
6	118.85	111.21	121.00	103.18	112.81	103.24	111.04	102.64	108.62	106.16	111.12	118.59
7	120.93	123.01	116.92	123.60	114.22	120.78	109.80	115.35	109.85	113.07	105.50	117.48
8	120.75	125.55	126.07	125.86	122.38	119.68	124.47	123.27	117.07	114.67	123.10	114.18
9	117.18	125.96	125.17	125.77	125.28	123.46	122.92	123.36	124.25	117.11	122.36	117.15
10	118.48	123.80	123.37	121.72	124.62	124.40	122.73	124.16	117.92	125.11	115.05	124.85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1090 MHz; 10 dBm.

LO IN: 1120 MHz; +23.00 dBm

IF OUT: 30 MHz; 2.67 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