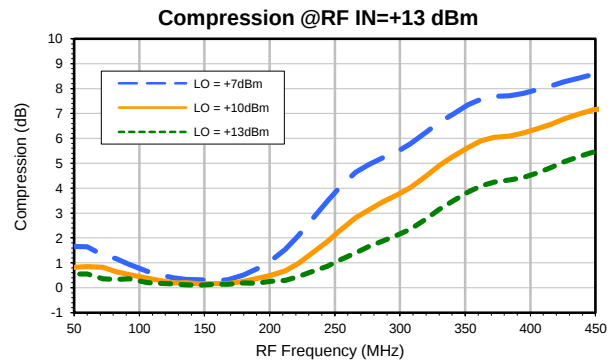
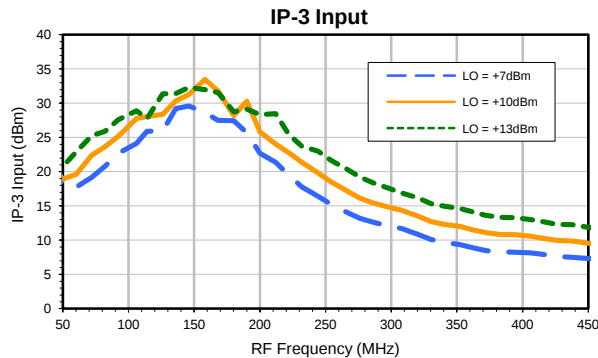
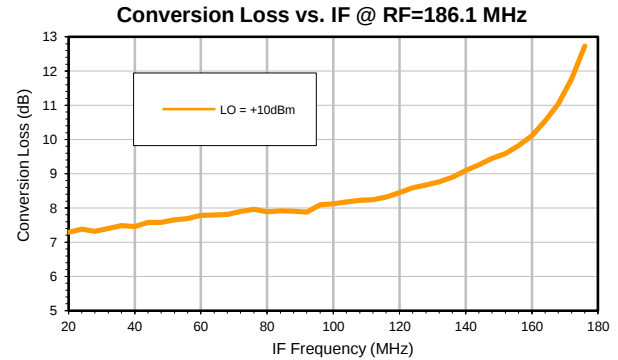
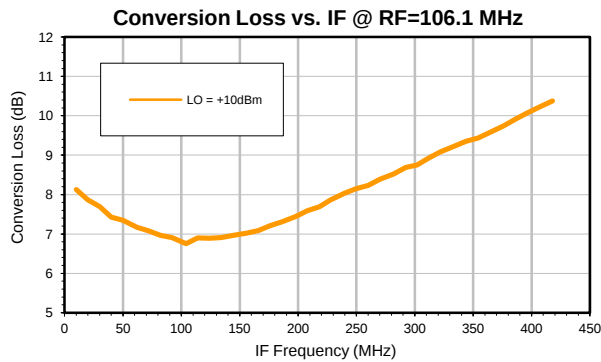
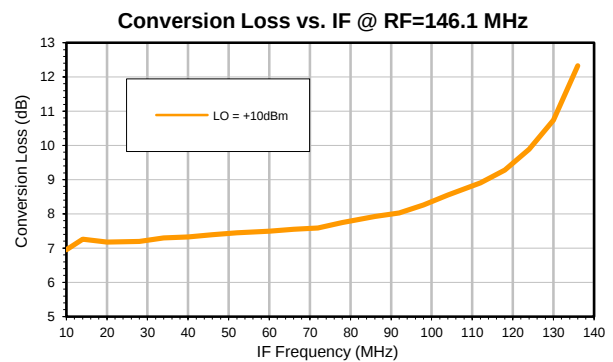
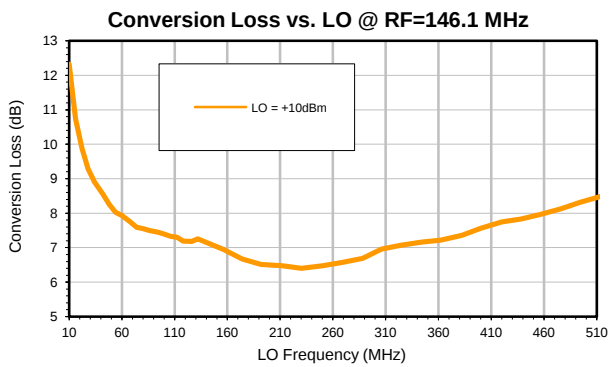
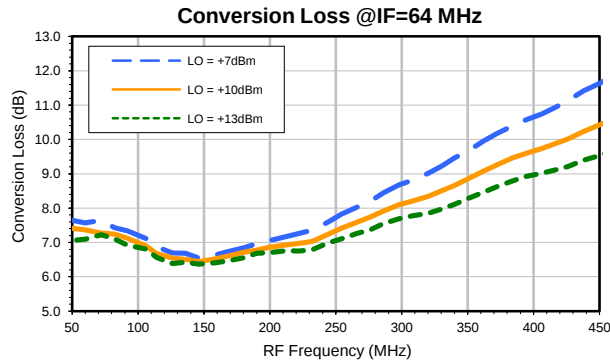


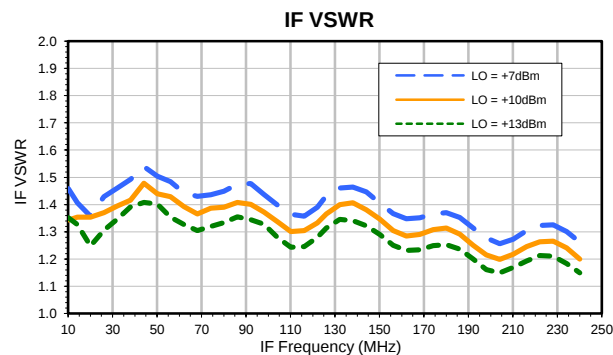
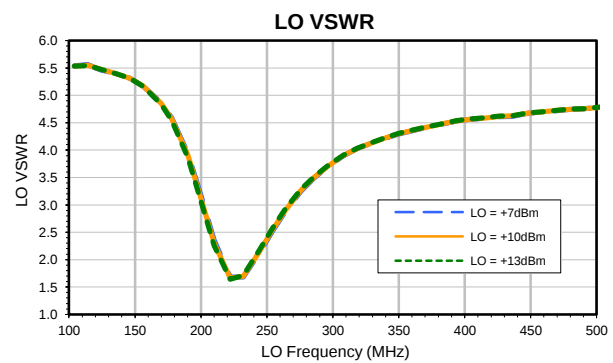
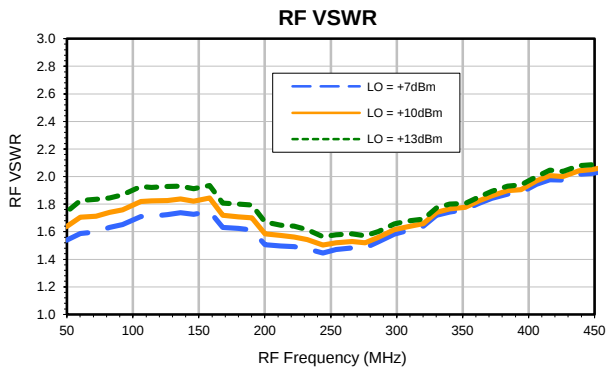
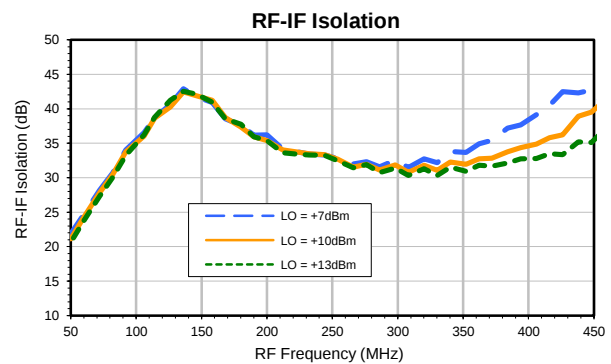
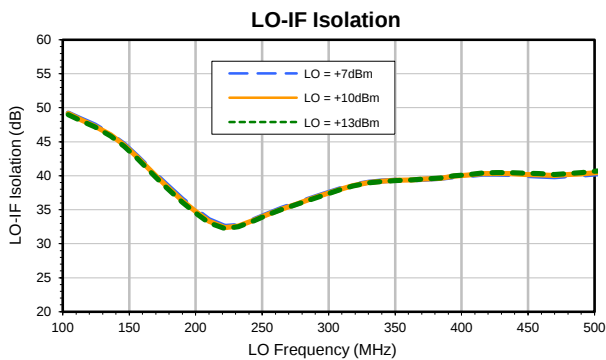
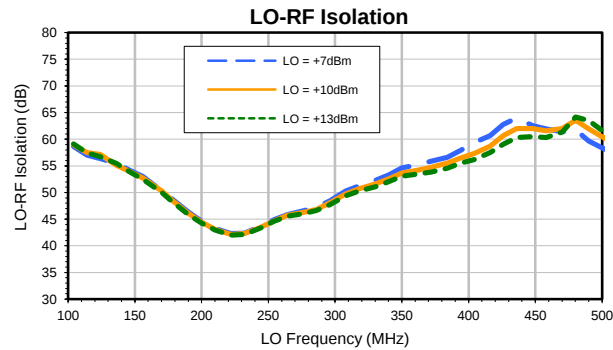
Frequency Mixer

Typical Performance Curves

ADE-ED16303/1



Typical Performance Curves



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	7.35	23.33	33.96	30.64	35.23	24.84	34.06	31.29	34.81	53.31
1	---	30.04	---	35.54	10.25	35.97	19.47	42.26	29.81	43.10	56.93	46.25
2	115.50	64.77	69.26	70.70	73.18	74.72	91.08	79.08	92.67	75.22	81.99	70.56
3	125.68	98.14	90.59	98.85	82.07	97.38	80.94	99.79	84.14	99.78	91.97	106.98
4	125.53	100.27	104.81	94.16	104.38	94.42	106.95	105.34	106.90	108.32	106.85	106.81
5	127.31	107.84	106.63	102.81	103.26	102.57	104.44	108.27	106.25	107.52	107.59	108.36
6	125.84	108.74	101.98	106.36	90.03	107.22	88.77	105.99	96.01	105.68	106.38	109.83
7	125.98	108.64	108.92	104.26	105.89	96.08	107.63	94.55	108.82	104.55	106.69	106.53
8	125.59	108.60	107.92	107.25	105.21	102.77	99.76	103.69	101.64	106.29	107.50	106.97
9	124.26	106.77	107.23	105.19	106.27	101.34	100.16	98.56	100.19	93.20	105.71	101.42
10	126.50	107.93	107.82	104.23	109.36	96.19	107.85	90.80	109.79	86.75	108.57	98.15
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 146 MHz; -10 dBm.
LO IN: 210 MHz; +10.00 dBm
IF OUT: 64 MHz; -16.68 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	17.29	33.07	42.68	40.44	44.91	34.39	44.20	38.34	44.05	50.64
1	---	27.80	---	33.80	10.55	35.52	19.92	42.36	30.49	44.10	56.45	47.13
2	102.57	54.00	57.44	61.44	62.15	67.05	78.19	71.50	77.46	64.45	69.97	59.70
3	114.90	74.93	71.41	76.14	62.98	73.93	60.62	75.91	62.73	80.76	69.04	86.78
4	119.08	94.89	100.69	99.26	102.36	89.35	97.39	97.49	101.13	100.98	103.54	92.65
5	121.21	105.30	90.17	102.75	91.98	112.41	89.14	106.27	90.17	111.36	94.51	107.59
6	121.34	116.75	101.72	107.93	90.26	113.24	87.98	107.09	96.99	110.35	103.92	117.85
7	119.85	117.33	95.37	114.76	94.52	107.88	97.18	107.16	94.12	114.92	95.48	118.46
8	120.05	116.90	116.11	117.80	118.18	113.85	112.32	114.50	111.76	116.29	115.85	118.10
9	121.53	110.12	106.44	102.42	101.79	97.31	96.40	97.09	102.46	91.65	102.89	97.61
10	119.92	117.21	114.81	108.88	118.22	99.46	117.91	87.62	114.48	89.17	117.60	99.94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 146 MHz; 0 dBm.
LO IN: 210 MHz; +10.00 dBm
IF OUT: 64 MHz; -6.82 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