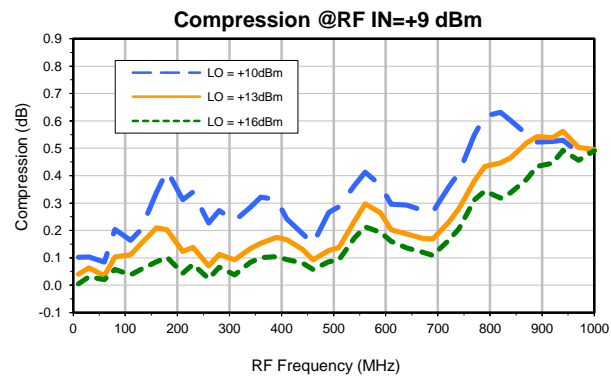
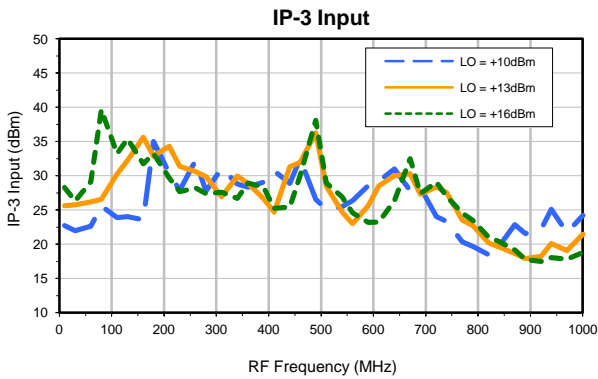
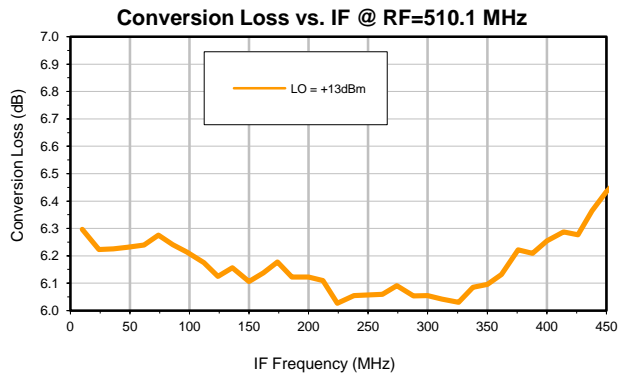
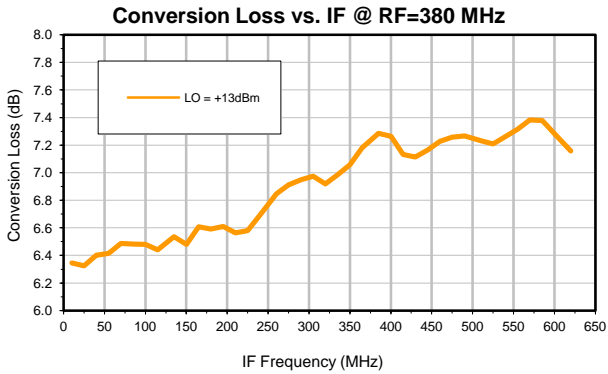
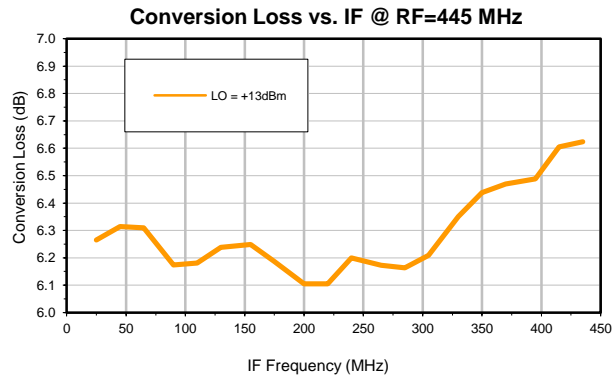
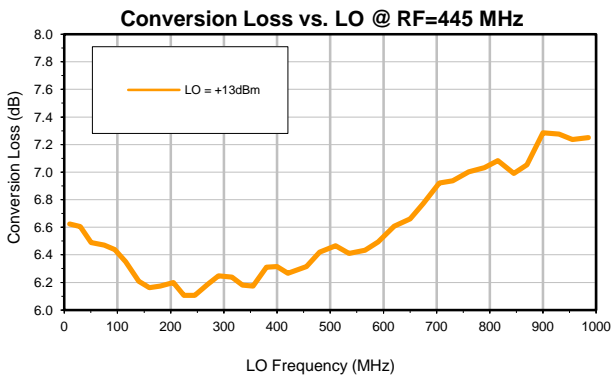
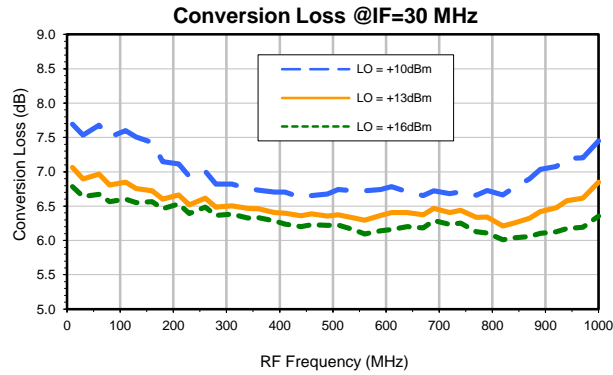


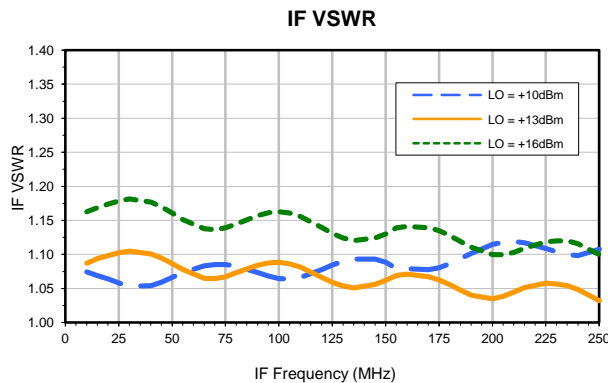
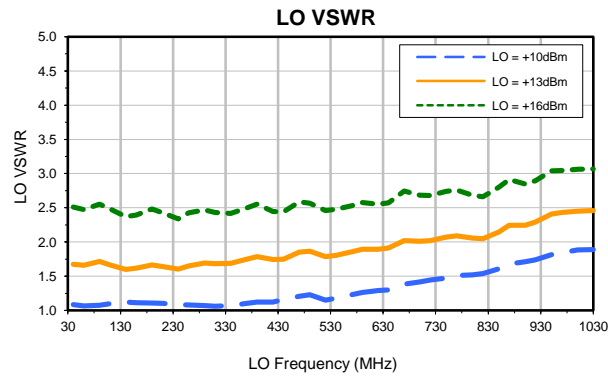
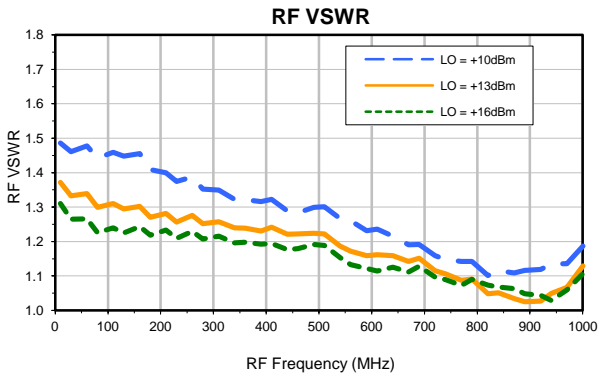
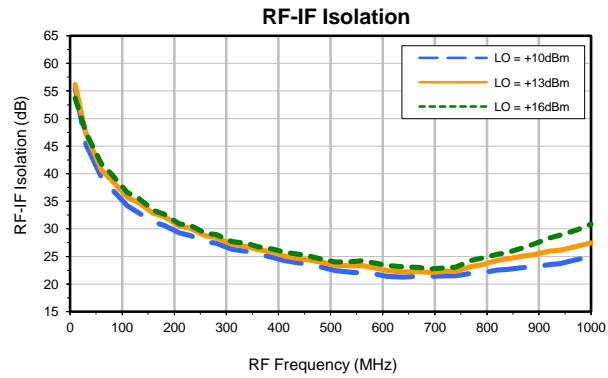
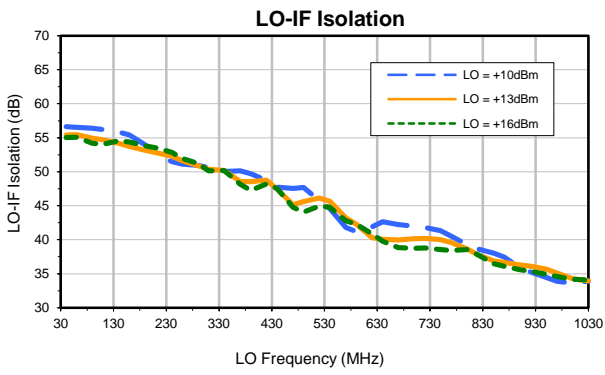
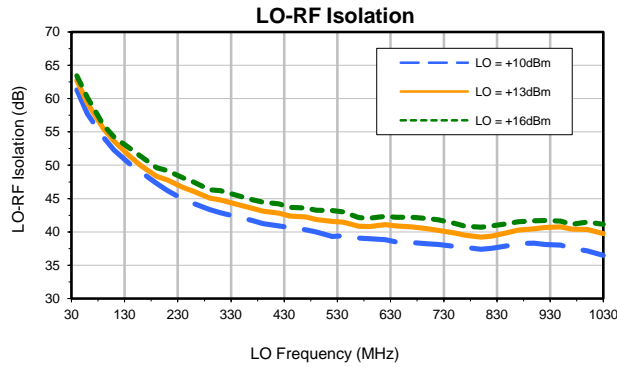
# Frequency Mixer

# ADE-751MH+

## Typical Performance Curves



## Typical Performance Curves



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	23.84	30.36	31.22	33.53	23.81	41.51	26.71	50.72	40.88	43.23
1	---	15.93	---	30.18	12.68	40.97	17.82	29.64	40.45	45.15	45.14	42.82
2	92.41	66.77	52.34	60.55	52.49	63.52	50.61	57.23	46.73	60.56	45.11	54.60
3	109.87	50.97	45.84	53.52	51.69	69.15	42.72	64.80	49.21	57.89	60.13	75.25
4	114.01	77.05	70.23	78.20	77.58	87.78	76.51	76.83	77.26	81.95	73.84	79.10
5	125.15	80.55	79.42	78.11	81.10	74.61	70.99	72.86	68.70	75.29	63.92	73.64
6	113.76	97.11	81.35	88.33	82.23	90.97	85.08	93.29	92.34	97.26	84.60	89.56
7	119.20	101.07	92.26	87.70	89.32	86.87	83.40	85.95	90.18	87.98	83.32	87.44
8	123.82	107.49	108.77	104.51	96.36	101.01	99.30	99.71	99.90	100.83	112.24	106.01
9	118.59	110.14	106.53	138.09	104.27	108.72	102.31	110.65	99.47	103.25	134.66	107.94
10	123.09	113.03	115.22	113.34	121.92	121.92	113.28	117.01	111.56	115.04	105.52	117.57
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 445 MHz; 0 dBm.  
 LO IN: 475 MHz; +13.00 dBm  
 IF OUT: 30 MHz; -6.01 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	32.68	43.84	39.43	54.41	37.33	59.57	44.84	72.48	53.33	64.52
1	---	19.58	---	34.03	13.73	41.41	25.13	46.67	54.93	58.89	51.92	66.81
2	89.14	61.01	61.27	48.31	61.91	56.45	48.03	56.98	51.41	65.14	51.58	57.12
3	96.95	24.08	17.12	48.72	28.85	58.45	34.14	52.19	43.06	50.29	66.23	63.06
4	104.43	57.15	56.33	62.25	60.04	64.55	66.54	65.33	59.23	78.64	58.50	74.55
5	105.35	37.45	50.85	42.14	35.98	44.33	43.67	50.59	50.50	52.33	75.83	58.36
6	93.51	74.38	63.95	60.03	65.03	63.87	62.40	65.23	62.72	70.03	72.38	74.05
7	104.21	47.85	44.69	44.14	49.18	49.44	66.98	51.06	49.08	55.60	56.55	63.43
8	106.60	79.69	74.23	65.94	69.27	67.43	76.86	76.49	67.15	80.08	76.80	77.88
9	95.54	62.43	59.71	56.70	54.97	60.45	57.32	60.80	52.23	54.46	57.07	61.44
10	104.03	85.24	74.74	75.71	75.94	74.45	75.67	64.70	69.73	95.45	72.74	76.26
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 445 MHz; 10 dBm.  
 LO IN: 475 MHz; +13.00 dBm  
 IF OUT: 30 MHz; 2.62 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