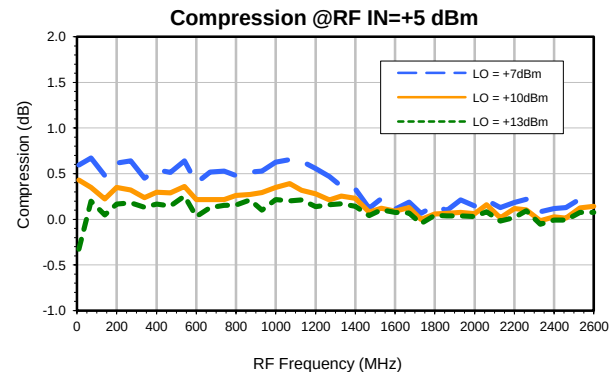
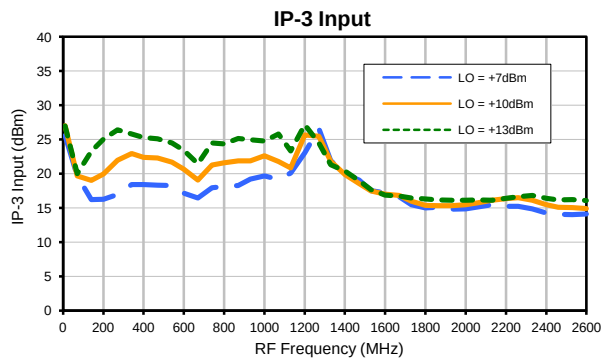
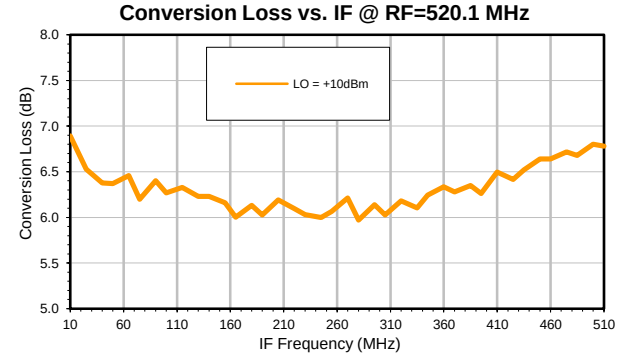
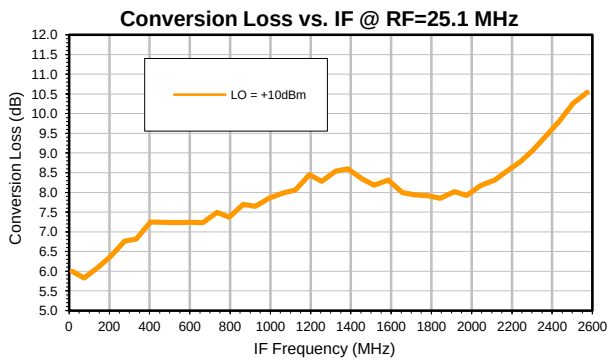
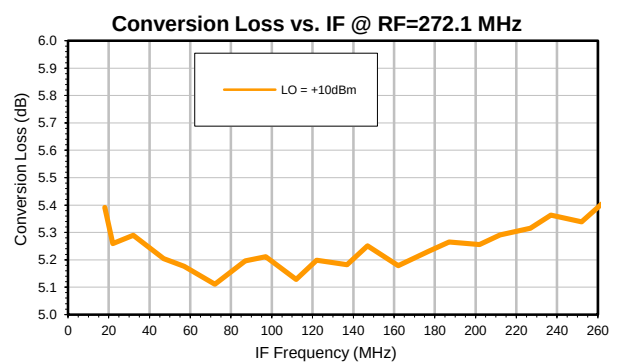
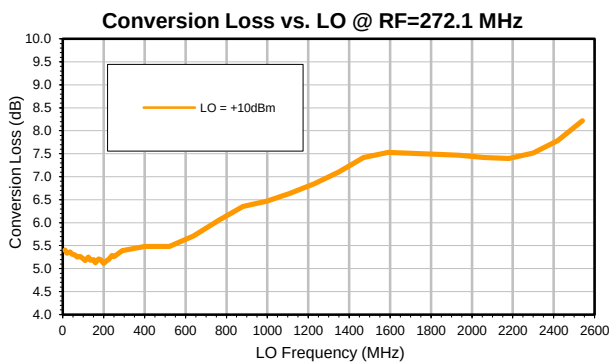
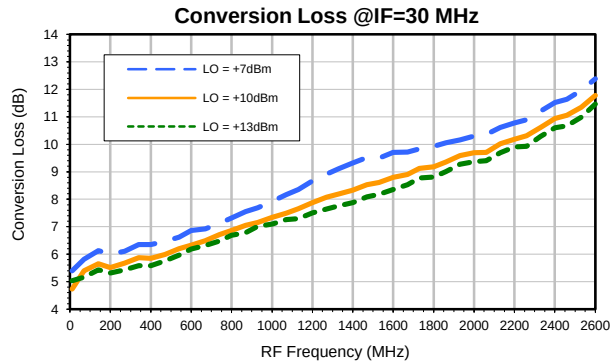


Frequency Mixer

Typical Performance Curves

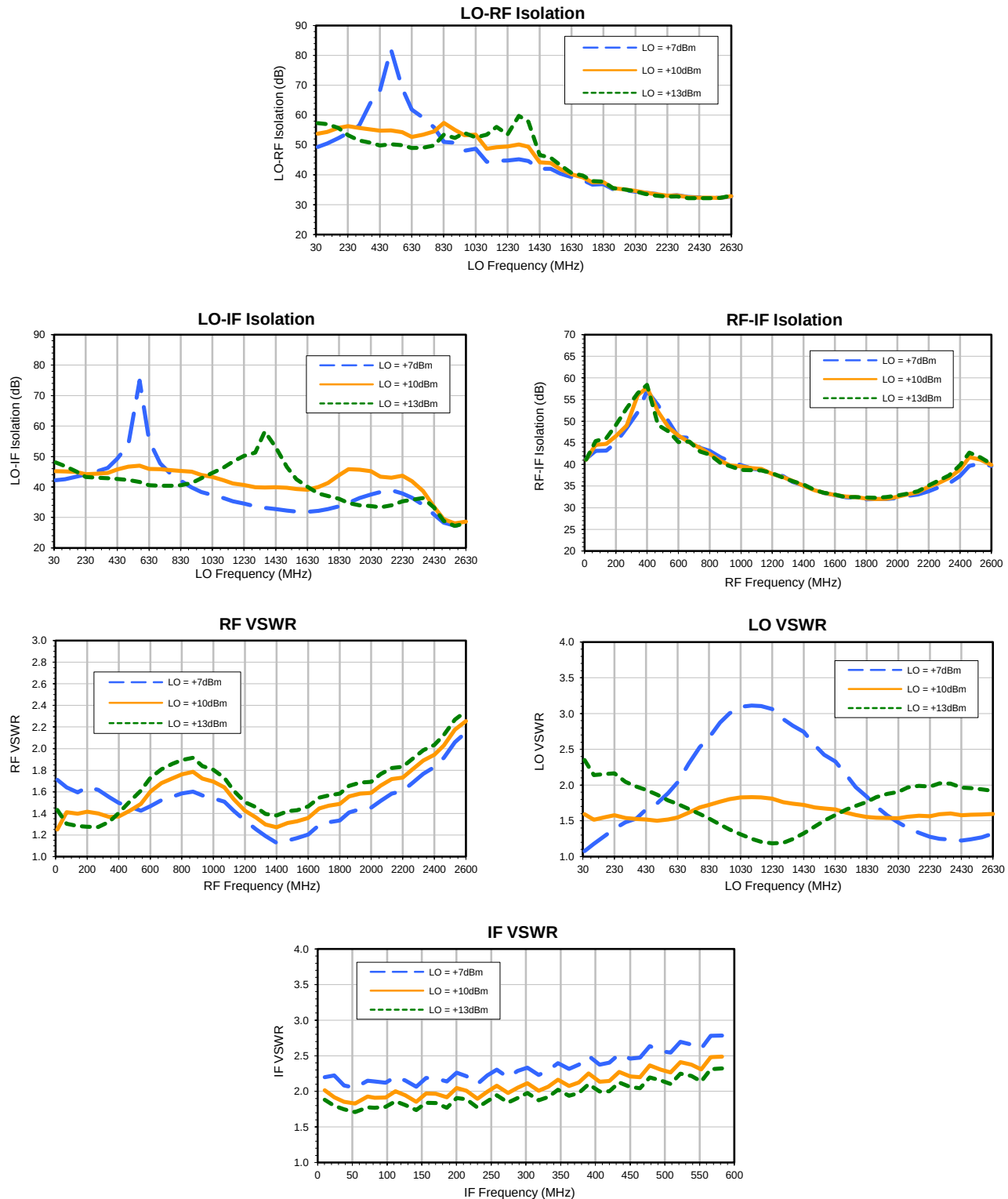
SYM-ED16157/1



Frequency Mixer

Typical Performance Curves

SYM-ED16157/1



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	27.62	25.32	35.85	36.83	36.44	49.68	38.25	51.24	48.00	53.59
1	---	34.09	---	61.75	11.12	45.48	22.97	43.27	48.26	45.42	34.01	42.83
2	108.37	67.96	71.37	67.49	72.82	68.34	71.89	70.20	72.63	81.03	72.71	81.43
3	128.97	85.48	65.44	84.01	61.23	85.10	60.63	82.04	68.19	81.54	74.47	79.77
4	129.94	103.01	111.62	102.54	108.60	98.87	110.39	103.47	112.18	105.80	111.44	109.28
5	129.45	109.96	102.33	108.23	98.49	108.60	94.27	109.62	96.31	110.99	97.58	110.06
6	128.60	112.14	111.30	111.99	111.56	112.07	111.75	110.99	111.97	112.29	109.91	109.38
7	128.50	110.59	109.81	111.42	110.50	112.09	111.28	112.27	110.48	110.89	111.08	111.93
8	128.80	110.17	110.30	109.82	110.35	112.18	112.83	110.66	110.17	107.89	111.49	109.91
9	126.42	108.97	109.42	111.64	112.10	111.31	111.87	110.82	111.09	112.40	111.17	112.07
10	125.68	108.43	109.51	111.41	110.45	111.03	111.75	112.22	111.70	111.25	108.87	109.32
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 272 MHz; -10 dBm.
LO IN: 302 MHz; +10 dBm
IF OUT: 30 MHz; -16.54 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	39.96	36.08	45.59	48.90	50.85	60.58	54.52	65.96	64.80	68.76
1	---	34.69	---	53.49	11.67	48.36	25.14	46.24	44.34	48.97	37.31	48.65
2	97.94	60.91	62.29	61.19	61.64	62.56	60.87	64.24	60.98	73.96	63.27	73.95
3	118.55	67.64	49.78	69.91	41.95	73.29	40.41	66.56	46.35	64.01	56.85	62.30
4	117.91	82.95	87.32	84.46	89.05	80.90	86.71	79.42	81.00	83.24	80.28	93.03
5	117.88	89.72	61.21	91.03	63.18	85.93	63.19	84.56	64.28	85.76	73.85	89.26
6	118.06	96.49	96.48	96.44	98.83	92.06	103.24	91.14	99.46	94.46	92.13	98.98
7	116.86	95.54	80.56	98.79	85.63	95.26	81.00	95.59	79.16	96.32	78.49	94.28
8	116.98	118.97	110.42	114.70	111.42	111.16	108.26	106.54	113.46	102.70	118.85	104.18
9	117.28	117.48	100.64	118.19	102.80	108.25	99.37	107.08	95.66	105.83	94.40	105.12
10	116.57	118.35	113.82	118.52	115.18	119.90	118.33	118.14	119.23	117.19	118.00	112.02
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 272 MHz; 0 dBm.
LO IN: 302 MHz; +10 dBm
IF OUT: 30 MHz; -5.72 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