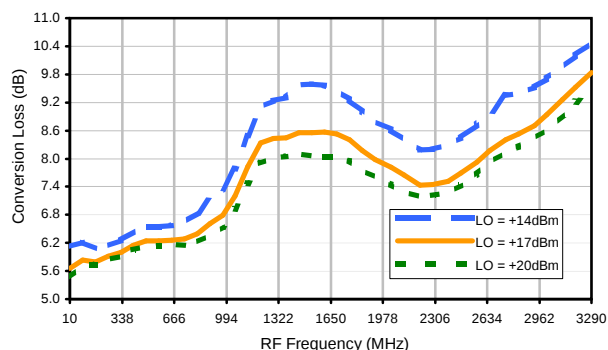


Frequency Mixer

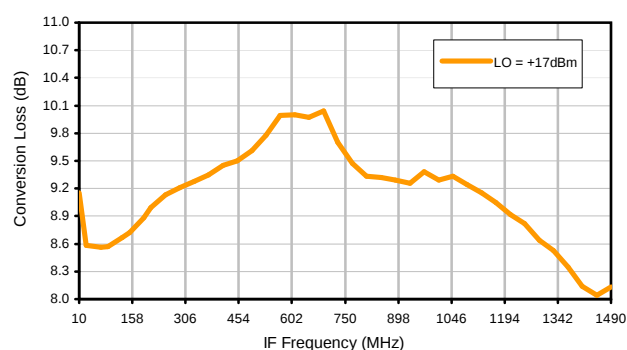
SYM-ED7818/1

Typical Performance Curves

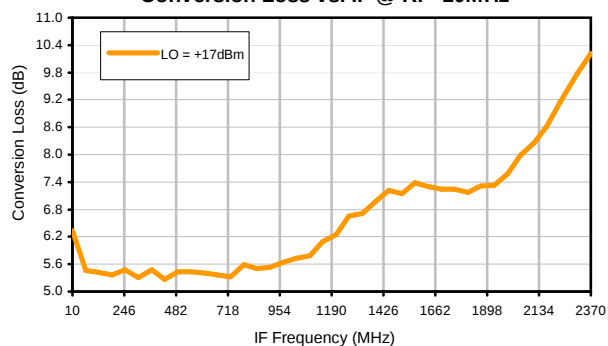
Conversion Loss @ IF=30MHz



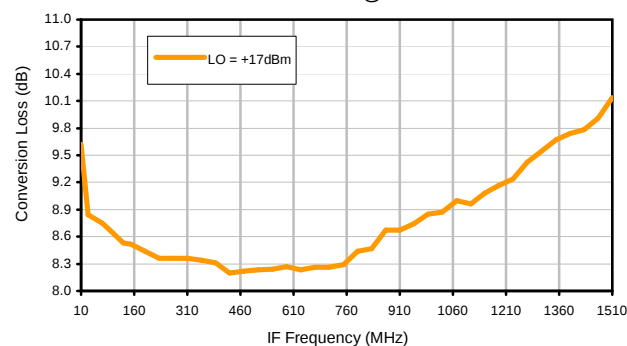
Conversion Loss vs. IF @ RF=1510.1MHz



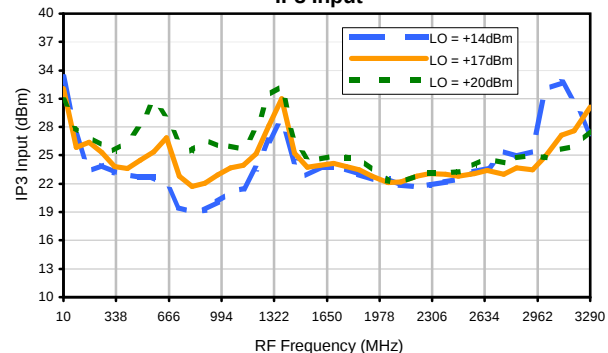
Conversion Loss vs. IF @ RF=10MHz



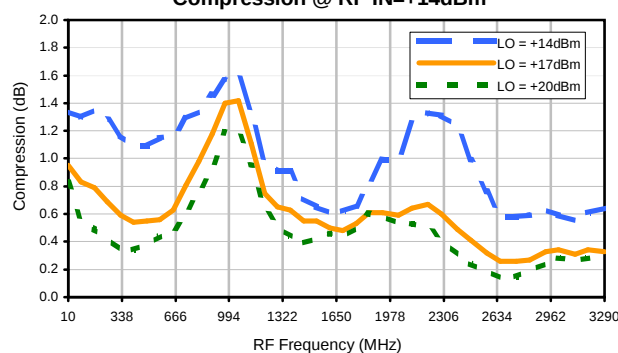
Conversion Loss vs. IF @ RF=3010.1MHz



IP3 Input

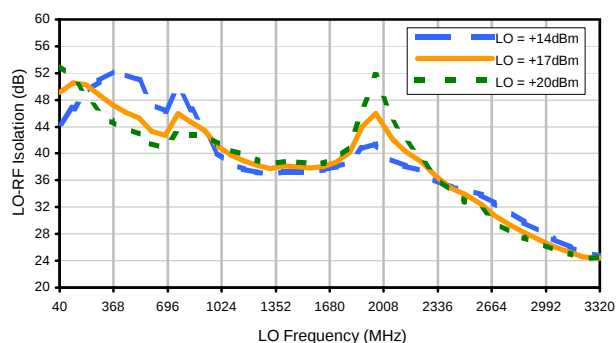


Compression @ RF IN=+14dBm

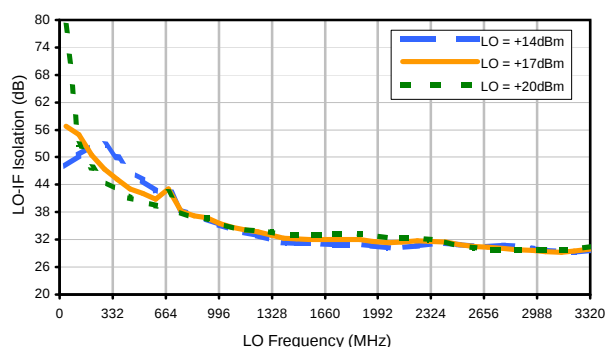


Typical Performance Curves

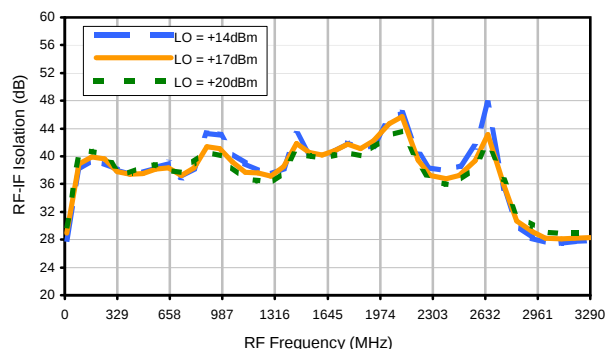
LO-RF Isolation



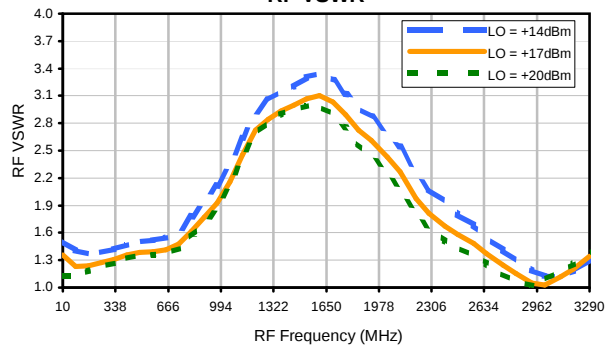
LO-IF Isolation



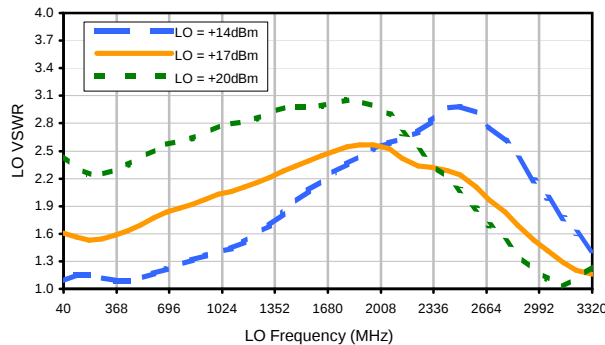
RF-IF Isolation



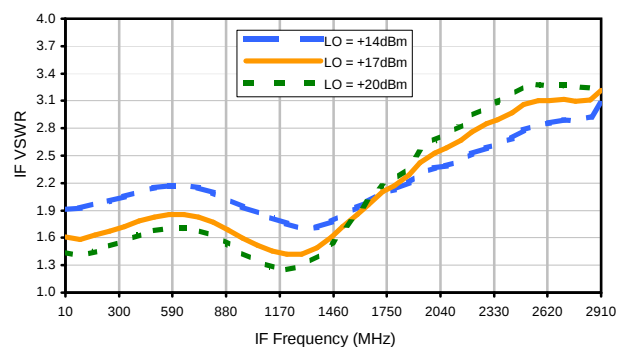
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	+22	1	+11	11	+10	13	+5	3	9	22
1	-	3	+0	4	+11	14	1	22	17	22	25	17
2	58	42	35	>50	31	48	39	>50	37	48	29	33
3	>90	>50	34	49	49	43	42	>50	50	50	>50	>50
4	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
5	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
6	>90	>50	>50	>50	>50	>50	49	>50	>50	>50	>50	>50
7	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
8	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
9	>90	>50	>50	>50	>50	>50	>50	>50	>50	49	>50	>50
10	>90	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1505 MHz; -1.00 dBm.
LO IN: 1535 MHz; +17.00 dBm
IF OUT: 30 MHz; -39.74 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	+12	11	+1	23	1	23	8	17	27	47
1	-	5	+0	5	+11	14	+0	34	18	28	34	23
2	38	30	19	47	17	31	38	37	26	48	23	29
3	75	25	10	27	28	24	21	31	26	38	40	39
4	>90	35	30	42	25	51	31	44	38	47	46	47
5	>90	39	30	52	26	55	38	40	35	46	42	48
6	>90	>60	>60	43	39	46	30	53	39	55	>60	60
7	>90	45	58	48	41	51	37	51	45	49	46	58
8	>90	>60	>60	>60	60	49	48	51	40	>60	50	>60
9	>90	>60	57	54	>60	57	52	>60	49	60	56	>60
10	>90	>60	>60	>60	>60	>60	>60	56	59	57	50	>60
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1505 MHz; 9.00 dBm.
LO IN: 1535 MHz; +17.00 dBm
IF OUT: 30 MHz; -29.7 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 represent the Harmonics level of the RF input signal to the mixer.