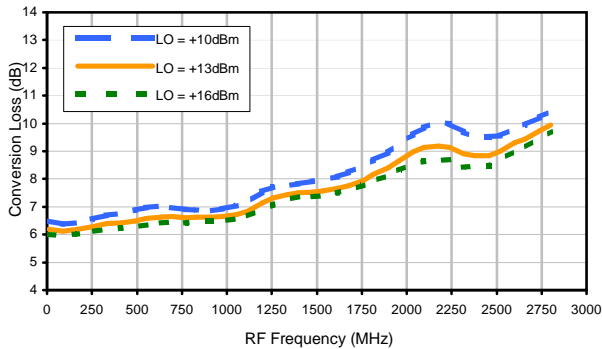


Frequency Mixer

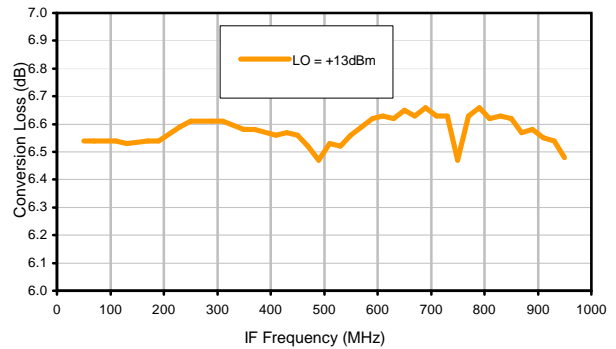
SYM-11MH

Typical Performance Curves

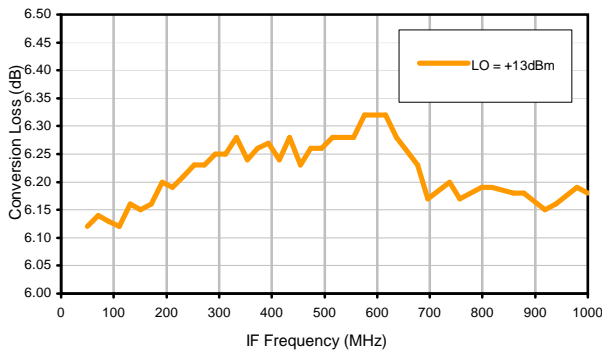
Conversion Loss @ IF=50MHz



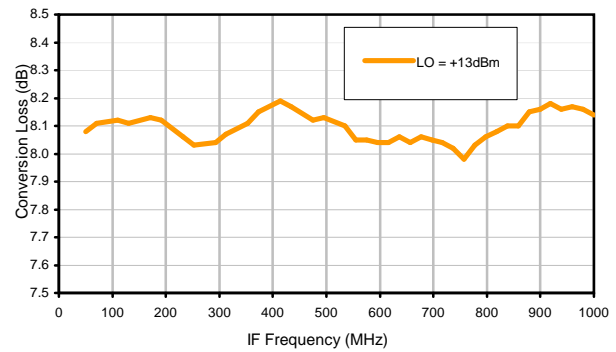
Conversion Loss vs. IF @ RF=1000.1MHz



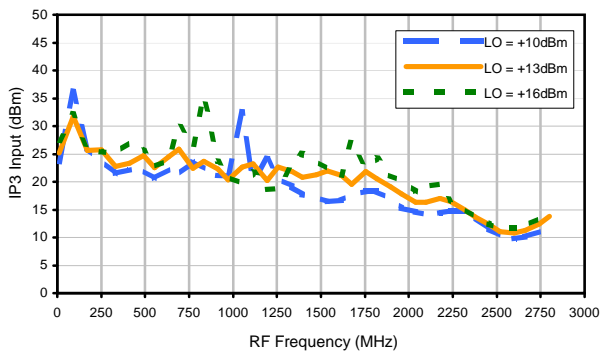
Conversion Loss vs. IF @ RF=50.1MHz



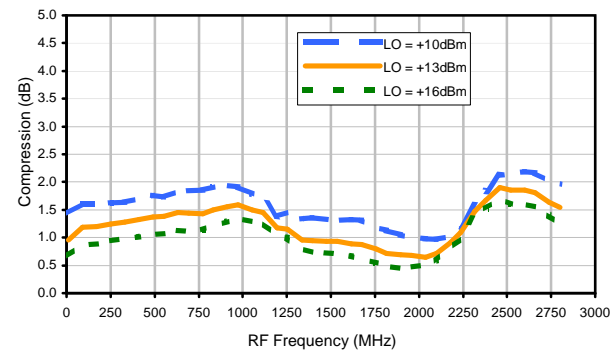
Conversion Loss vs. IF @ RF=2000.1MHz



IP3 Input

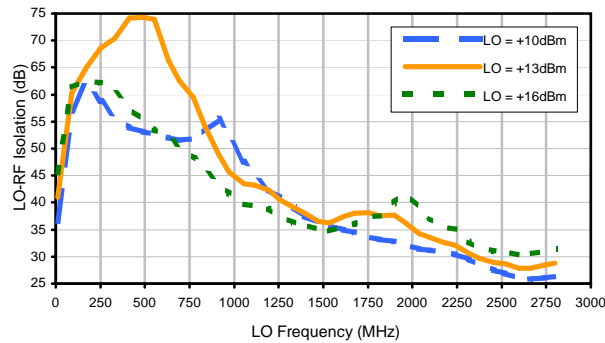


Compression @ RF IN=+9dBm

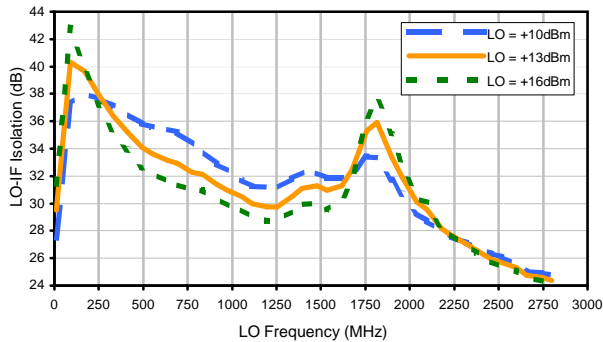


Typical Performance Curves

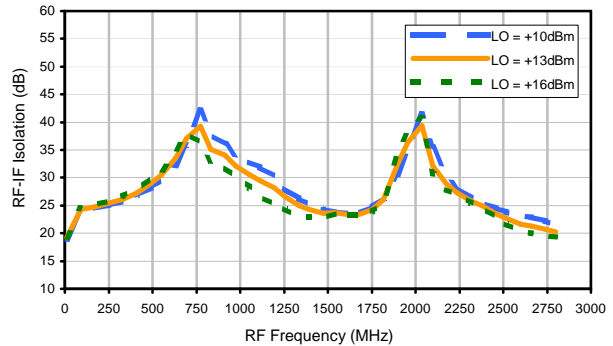
LO-RF Isolation



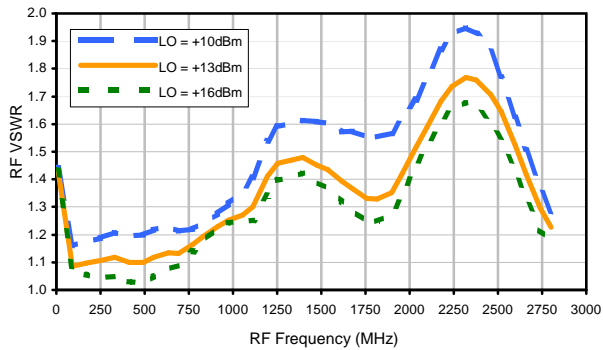
LO-IF Isolation



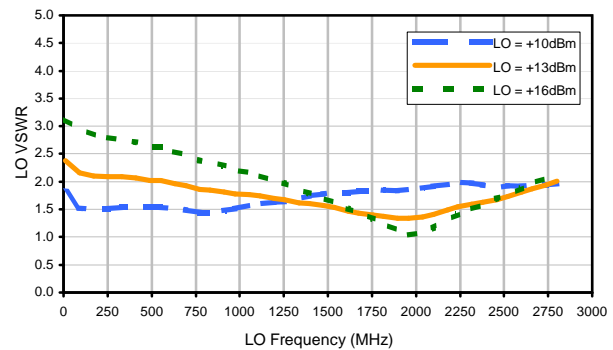
RF-IF Isolation



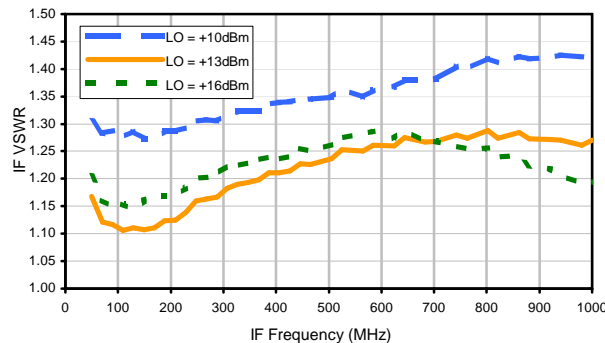
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	4	11	20	23	30	27	28	29	37	54
1	-	27	+0	26	12	26	19	39	45	35	37	45
2	92	54	50	72	51	57	48	49	56	56	52	55
3	>100	63	61	68	61	74	57	63	65	62	68	63
4	>100	84	82	83	82	80	78	75	75	75	78	82
5	>100	>87	>87	>87	>87	>87	86	>87	85	84	>87	>87
6	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
7	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
8	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1000.1 MHz; -6.00 dBm.
 LO IN: 1050.01 MHz; +13.00 dBm
 IF OUT: 49.91 MHz; -12.74 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	22	37	44	38	40	46	49	61	78
1	-	25	+0	25	13	30	22	56	42	47	44	57
2	73	48	38	40	38	42	42	48	56	57	50	56
3	>100	43	41	45	39	56	45	41	43	50	60	49
4	>100	52	50	48	49	55	55	57	50	50	58	69
5	>100	65	51	72	51	61	54	67	58	61	59	59
6	92	77	69	83	62	60	61	59	61	72	62	58
7	>100	74	84	72	64	70	63	64	68	65	65	61
8	>100	94	81	76	74	74	80	67	77	66	72	70
9	>100	87	83	91	86	80	79	70	77	72	75	71
10	>100	>97	88	89	>97	85	81	82	78	77	85	82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1000.1 MHz; 4.00 dBm.
 LO IN: 1050.01 MHz; +13.00 dBm
 IF OUT: 49.91 MHz; -2.97 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.

