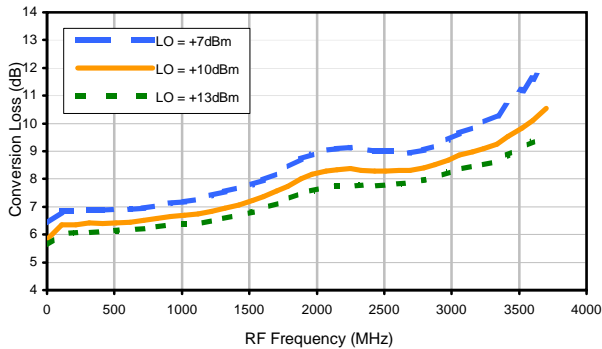


Frequency Mixer

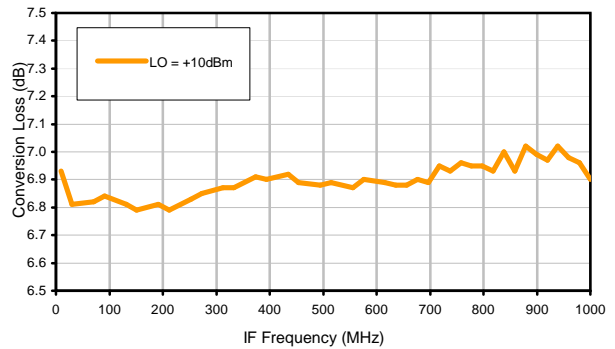
SYM-25DLHW

Typical Performance Curves

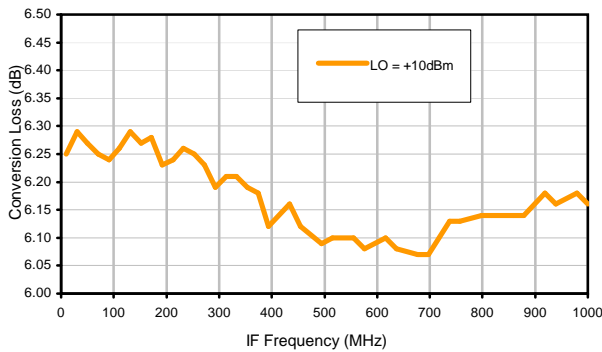
Conversion Loss @ IF=30MHz



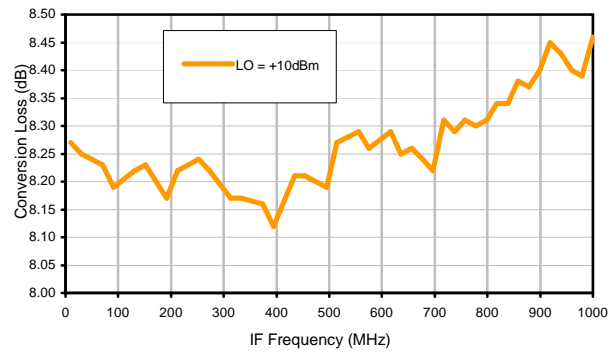
Conversion Loss vs. IF @ RF=1250.1MHz



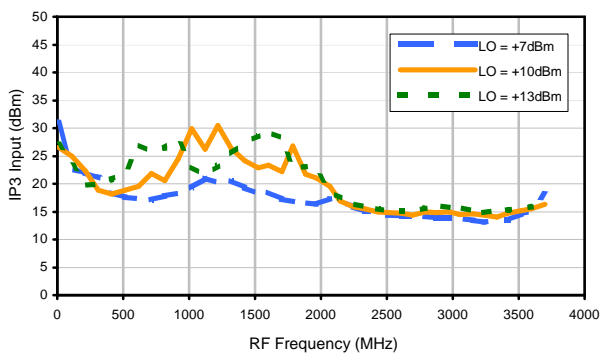
Conversion Loss vs. IF @ RF=40.1MHz



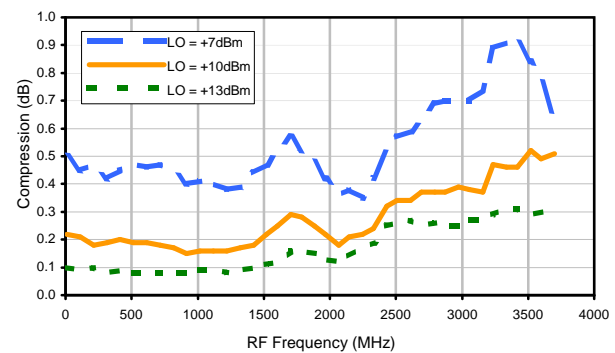
Conversion Loss vs. IF @ RF=2500.1MHz



IP3 Input

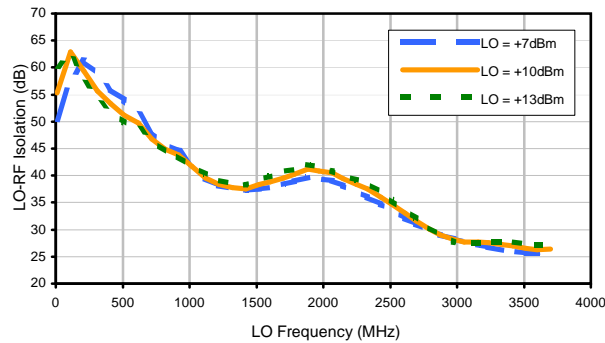


Compression @ RF IN=+5dBm

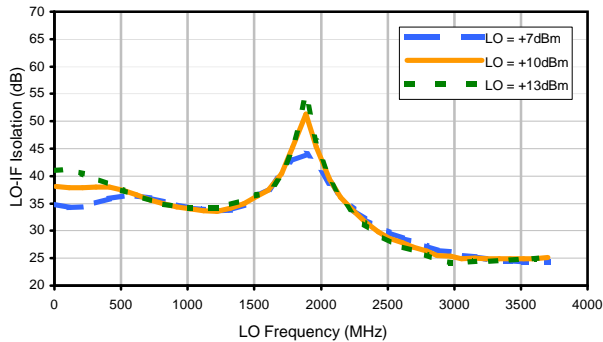


Typical Performance Curves

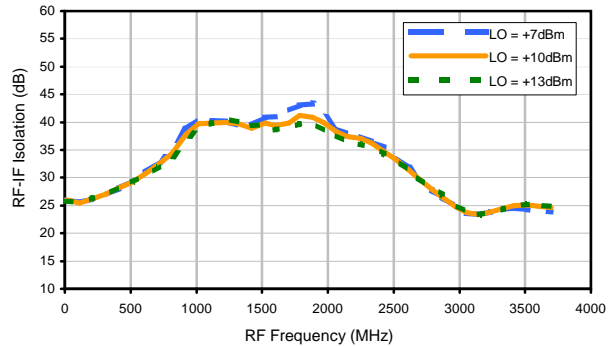
LO-RF Isolation



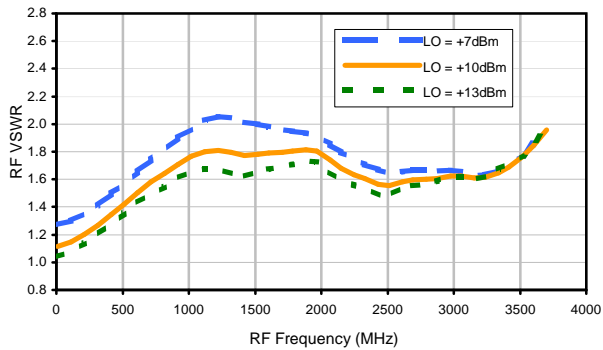
LO-IF Isolation



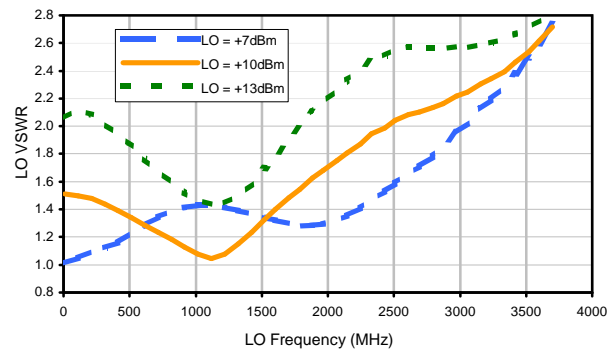
RF-IF Isolation



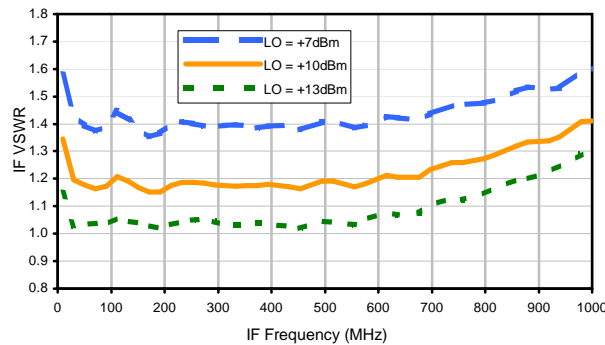
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	37	39	37	40	42	40	60	59	67
1	-	29	+0	29	15	34	28	41	43	49	50	62
2	83	50	42	53	72	46	49	71	54	58	58	63
3	>100	57	57	54	60	55	49	56	58	60	57	56
4	>100	82	78	72	69	69	64	62	65	71	67	67
5	>100	85	81	74	66	66	64	66	63	70	69	69
6	>100	>93	>93	>93	90	>93	90	83	89	76	88	84
7	>100	93	90	>93	93	88	>93	>93	90	>93	91	90
8	>100	>93	>93	>93	>93	>93	>93	>93	>93	93	>93	93
9	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1270.1 MHz; 0.00 dBm.
 LO IN: 1300.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -6.91 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	24	24	26	25	30	26	45	41	46
1	-	30	+0	30	15	33	28	39	47	44	45	53
2	98	62	51	64	69	54	57	72	61	63	68	70
3	>100	76	75	70	69	70	66	76	70	77	69	73
4	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
5	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
6	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1270.1 MHz; -10.00 dBm.
 LO IN: 1300.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -16.89 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.

