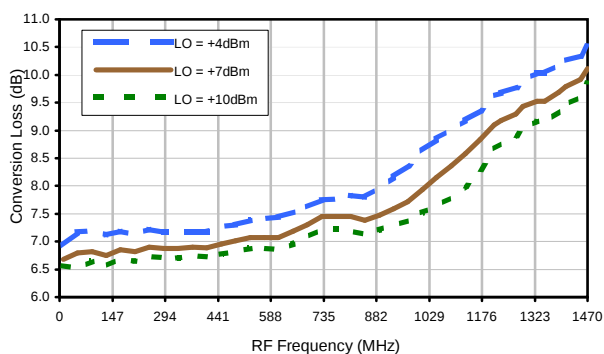


Frequency Mixer

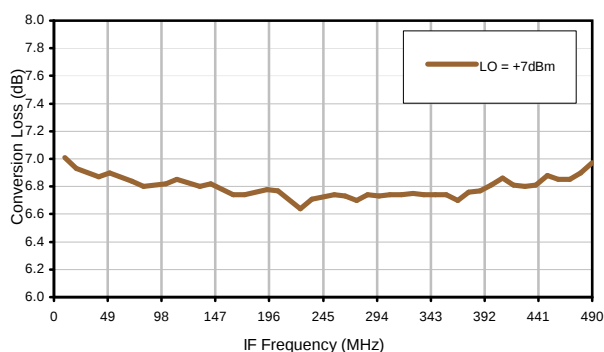
ADE-ED9681/1

Typical Performance Curves

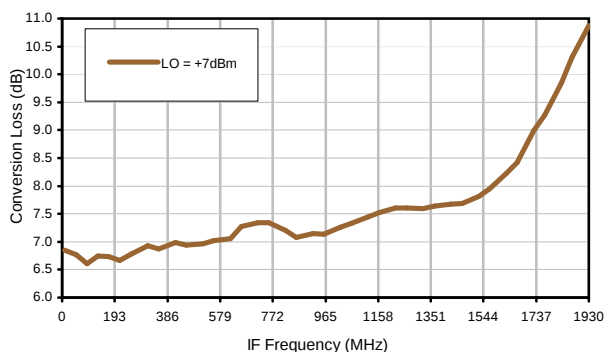
Conversion Loss @ IF=30MHz



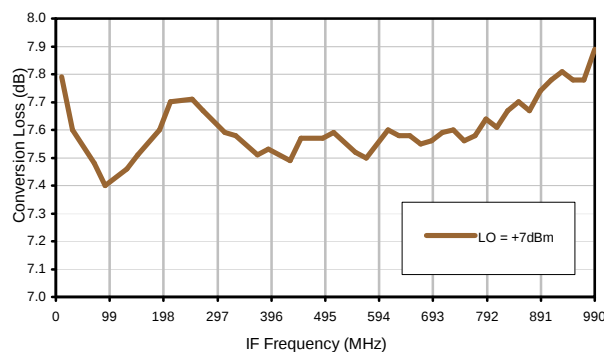
Conversion Loss vs. IF @ RF=500.1MHz



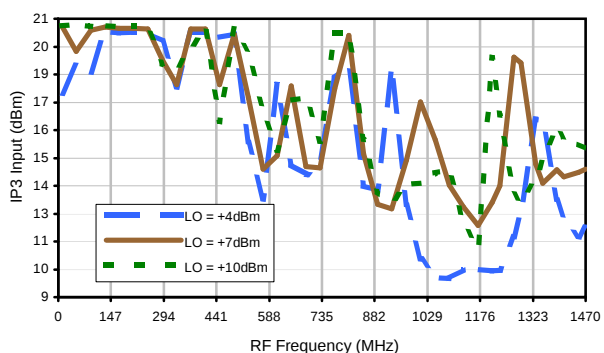
Conversion Loss vs. IF @ RF=10.1MHz



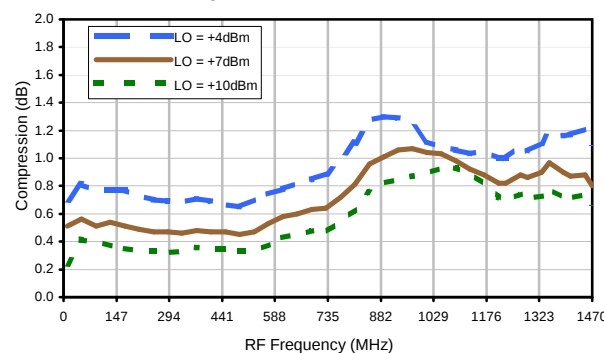
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

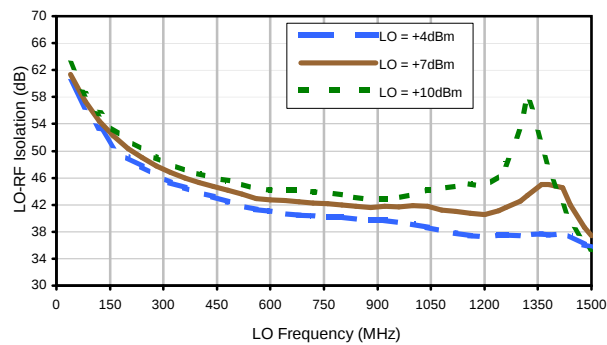


Compression @ RF IN=+1dBm

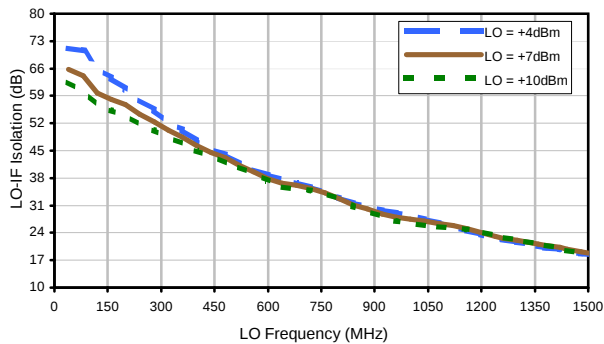


Typical Performance Curves

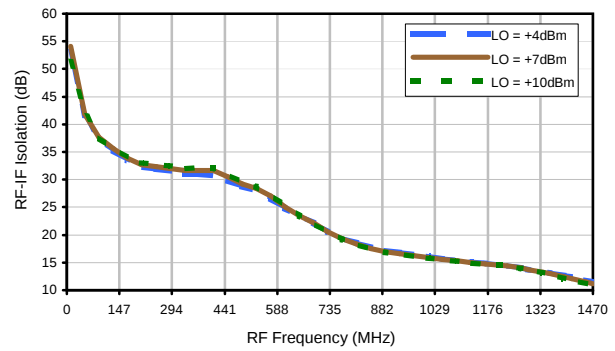
LO-RF Isolation



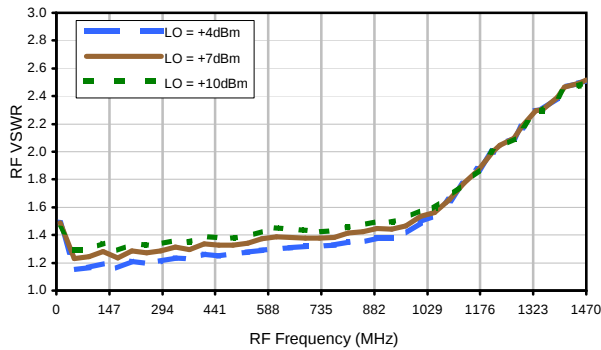
LO-IF Isolation



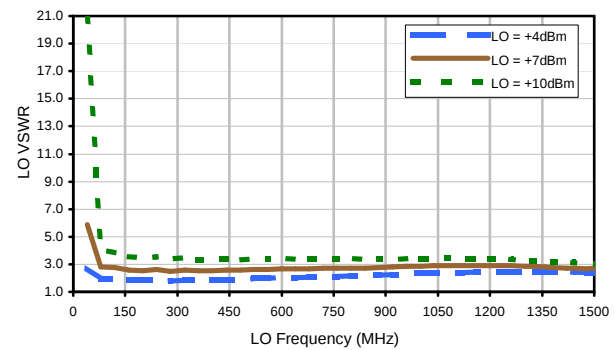
RF-IF Isolation



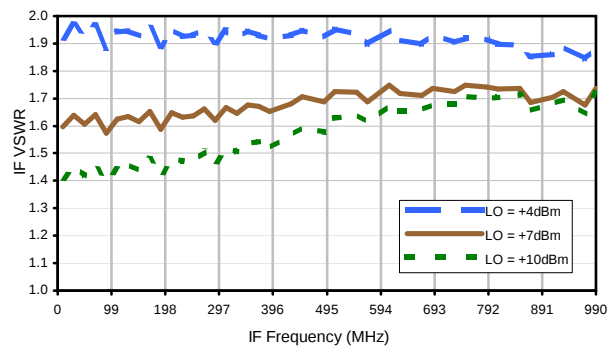
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	27	13	27	22	35	24	35	40	47
1	-	23	+0	33	12	39	21	40	40	43	38	33
2	>90	>69	53	67	53	63	52	67	56	>69	56	66
3	>90	>69	67	>69	65	>69	60	>69	>69	>69	>69	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500 MHz; -14.00 dBm.
LO IN: 530 MHz; +7.00 dBm
IF OUT: 30 MHz; -21.06 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	38	25	39	34	48	38	50	54	61
1	-	24	+0	32	12	42	22	43	41	49	44	40
2	73	62	45	66	45	62	45	57	50	60	51	57
3	>90	56	47	53	73	59	44	62	52	56	56	60
4	>90	>79	69	72	66	69	65	70	60	>79	65	77
5	>90	77	72	68	60	65	56	66	55	64	60	75
6	>90	>79	>79	>79	>79	>79	>79	>79	77	>79	>79	>79
7	>90	>79	>79	>79	76	>79	>79	>79	77	>79	77	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500 MHz; -4.00 dBm.
LO IN: 530 MHz; +7.00 dBm
IF OUT: 30 MHz; -11.05 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.