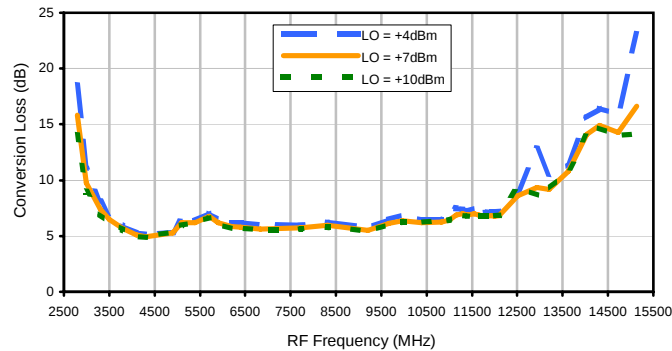


Frequency Mixer

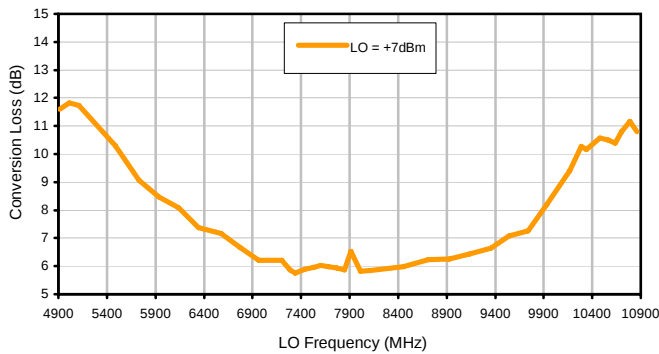
Typical Performance Curves

MCA1T-12G+

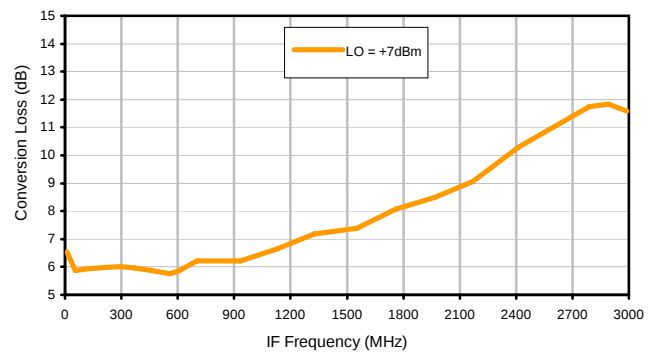
Conversion Loss @ IF=30MHz



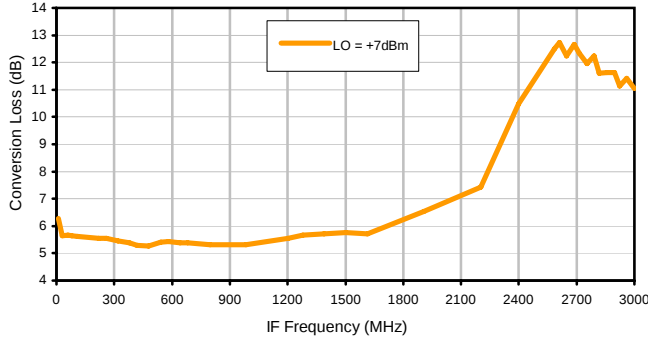
Conversion Loss vs. LO @ RF=7900MHz



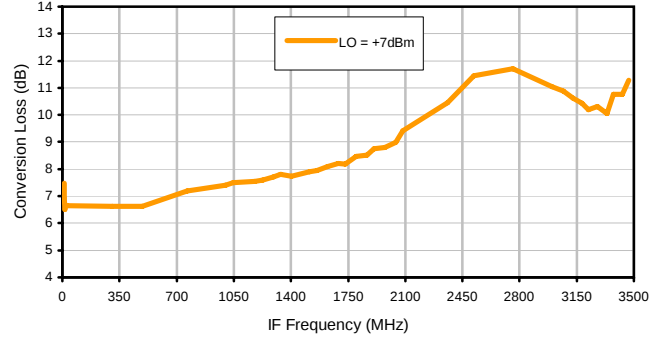
Conversion Loss vs. IF @ RF=7900MHz



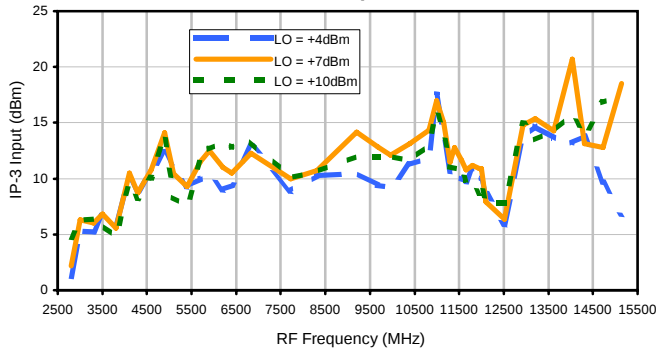
Conversion Loss vs. IF @ RF=3800MHz



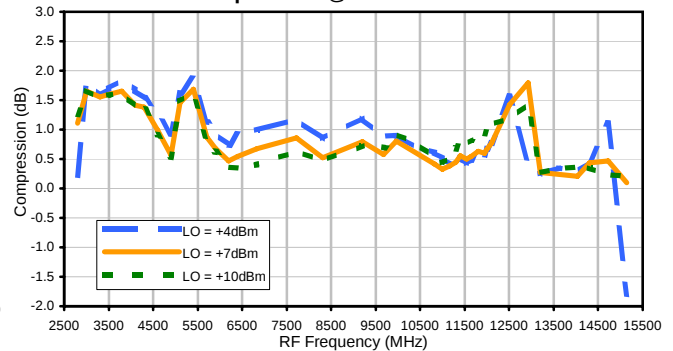
Conversion Loss vs. IF @ RF=12000MHz



IP-3 Input



Compression @ RF IN=+1dBm

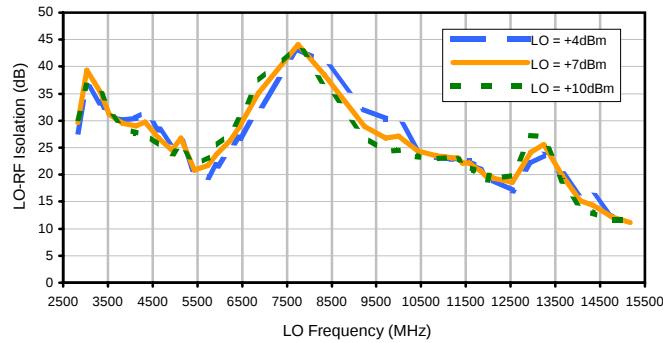


Frequency Mixer

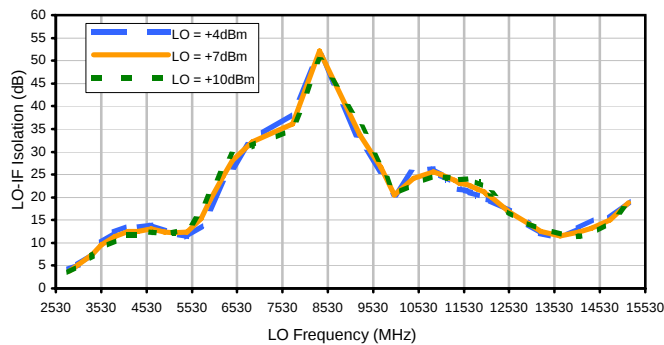
Typical Performance Curves

MCA1T-12G+

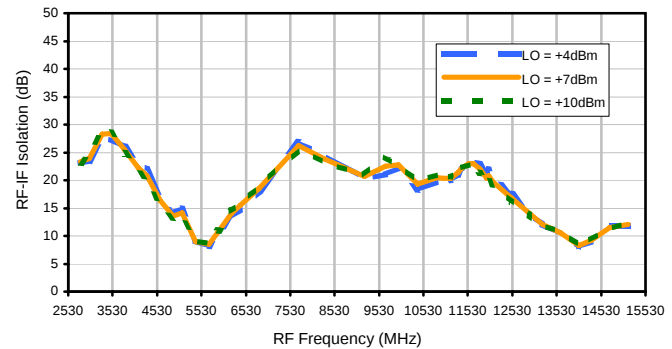
LO-RF Isolation



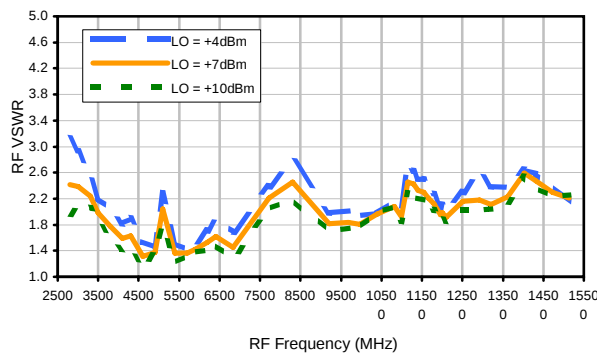
LO-IF Isolation



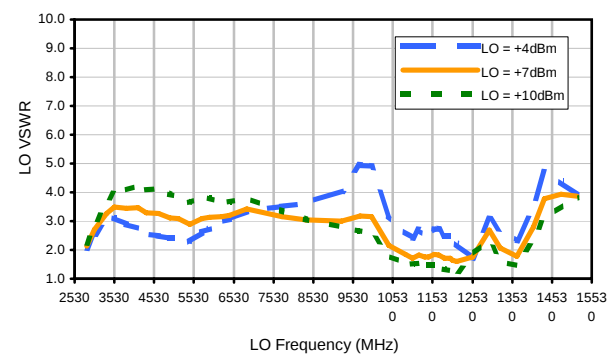
RF-IF Isolation



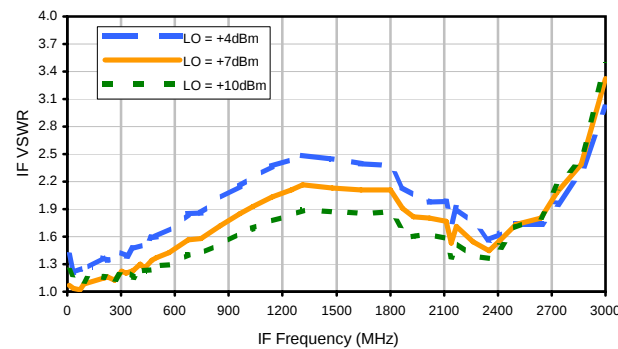
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	48	26	---	---	---	---	---	---	---
1	-	19	+0	38	37	43	---	---	---	---	---	---
2	85	55	65	56	>70	59	64	---	---	---	---	---
3	>90	>70	>70	>70	59	>70	>70	>70	---	---	---	---
4	---	---	>70	>70	>70	>70	>70	>70	>70	---	---	---
5	---	---	---	>70	>70	>70	>70	>70	>70	>70	---	---
6	---	---	---	---	>70	>70	>70	>70	>70	>70	>70	---
7	---	---	---	---	---	>70	>70	>70	>70	>70	>70	>70
8	---	---	---	---	---	---	>70	>70	>70	>70	>70	>70
9	---	---	---	---	---	---	---	>70	>70	>70	>70	>70
10	---	---	---	---	---	---	---	---	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions:

RF IN: 7750 MHz; -14.00 dBm.

LO IN: 7780 MHz; +7.00 dBm

IF OUT: 30 MHz; -20.15 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	50	38	---	---	---	---	---	---	---
1	-	19	+0	41	37	44	---	---	---	---	---	---
2	65	46	56	45	65	54	60	---	---	---	---	---
3	69	52	64	59	38	58	62	70	---	---	---	---
4	---	---	>80	70	>80	60	>80	66	75	---	---	---
5	---	---	---	>80	>80	>80	58	79	75	>80	---	---
6	---	---	---	---	>80	>80	>80	73	>80	77	>80	---
7	---	---	---	---	---	>80	>80	>80	75	>80	>80	>80
8	---	---	---	---	---	---	>80	>80	>80	>80	>80	>80
9	---	---	---	---	---	---	---	>80	>80	>80	>80	>80
10	---	---	---	---	---	---	---	---	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 7750 MHz; -4.00 dBm.

LO IN: 7780 MHz; +7.00 dBm

IF OUT: 30 MHz; -10.34 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.