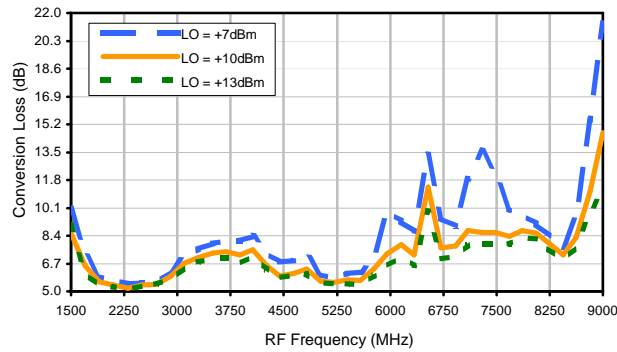


Frequency Mixer

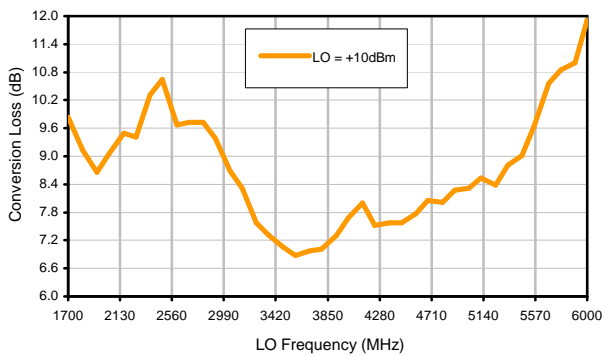
MCA1T-60LH+

Typical Performance Curves

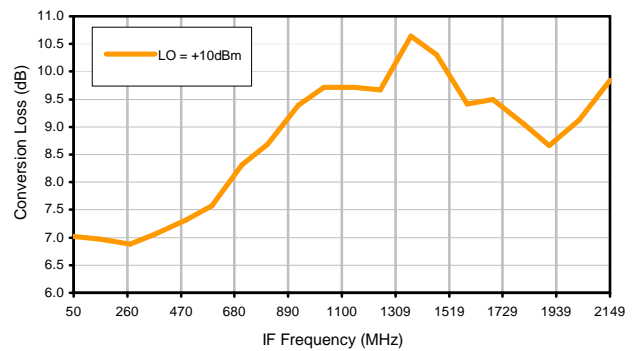
Conversion Loss @ IF=30MHz



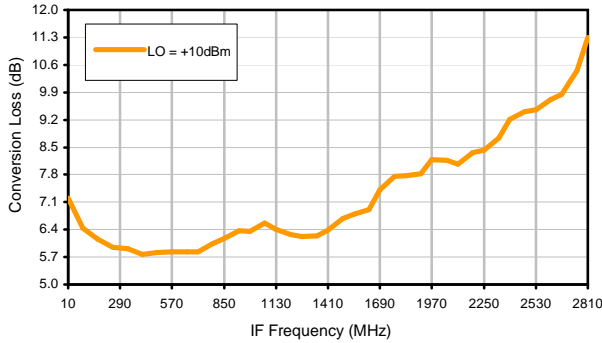
Conversion Loss vs. LO @ RF=3850MHz



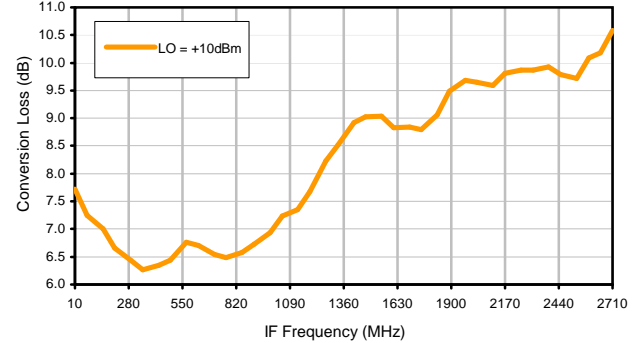
Conversion Loss vs. IF @ RF=3850MHz



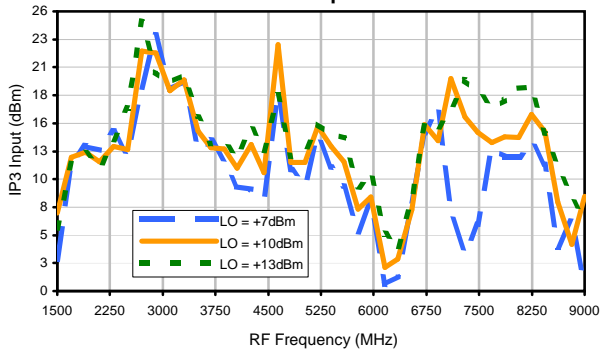
Conversion Loss vs. IF @ RF=1690MHz



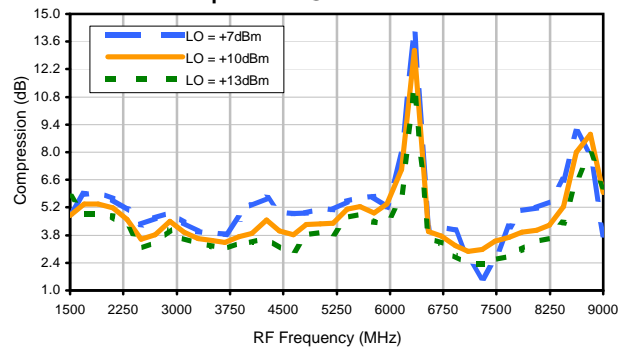
Conversion Loss vs. IF @ RF=6010.1MHz



IP3 Input

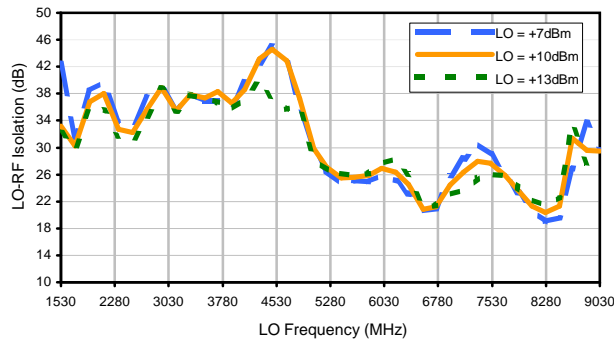


Compression @ RF IN=+10dBm

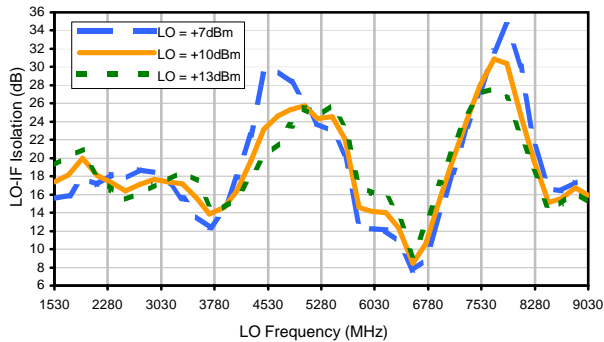


Typical Performance Curves

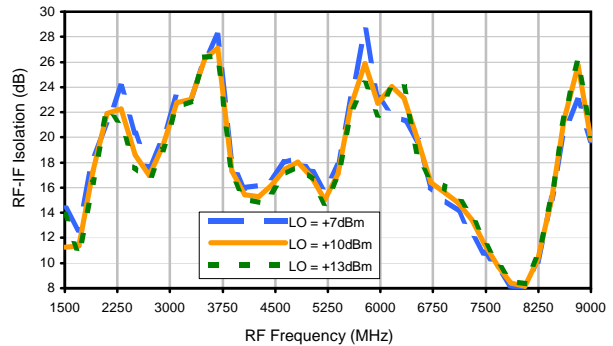
LO-RF Isolation



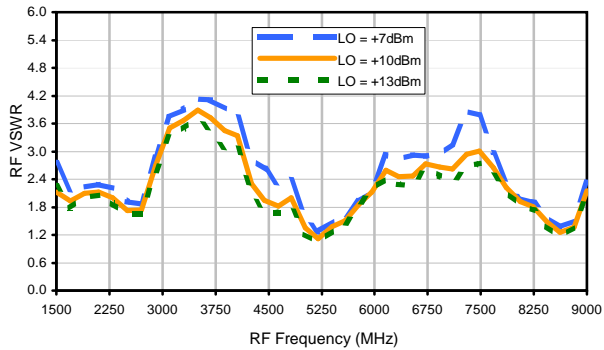
LO-IF Isolation



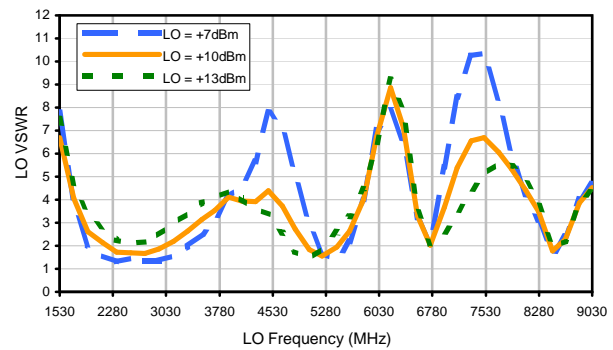
RF-IF Isolation



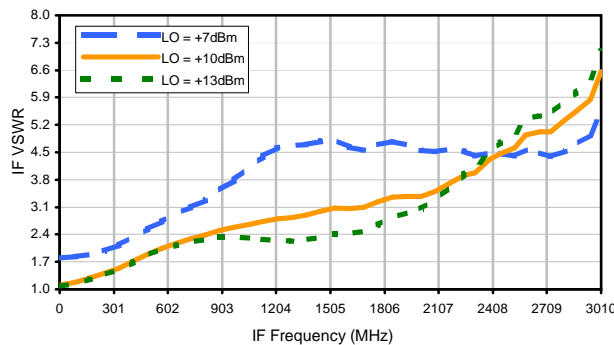
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

MCA1T-60LH+

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+3	38	32	53	34	61	---	---	---	---
1	-	10	+0	27	20	45	35	56	55	---	---	---
2	64	37	38	39	35	44	57	50	51	72	---	---
3	>90	48	37	49	41	43	48	56	58	59	64	---
4	>90	64	70	62	54	60	52	60	77	60	71	74
5	>90	80	75	>83	59	73	51	66	55	>83	62	67
6	>90	>83	73	80	>83	>83	73	>83	72	81	>83	70
7	---	---	>83	>83	>83	>83	70	>83	68	70	73	>83
8	---	---	---	>83	>83	>83	>83	>83	79	>83	77	77
9	---	---	---	---	>83	>83	>83	>83	>83	>83	76	81
10	---	---	---	---	---	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 3850 MHz; 0.00 dBm.
 LO IN: 3880 MHz; +10.00 dBm
 IF OUT: 30 MHz; -7.23 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+13	30	20	33	19	55	---	---	---	---
1	-	11	+0	24	21	44	34	46	46	---	---	---
2	84	48	46	49	42	51	64	53	55	69	---	---
3	>90	68	58	68	58	61	60	73	64	68	72	---
4	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
5	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
6	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
7	---	---	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
8	---	---	---	>73	>73	>73	>73	>73	>73	>73	>73	>73
9	---	---	---	---	>73	>73	>73	>73	>73	>73	>73	>73
10	---	---	---	---	---	>73	>73	>73	>73	>73	>73	>73
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 3850 MHz; -10.00 dBm.
 LO IN: 3880 MHz; +10.00 dBm
 IF OUT: 30 MHz; -17.17 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.