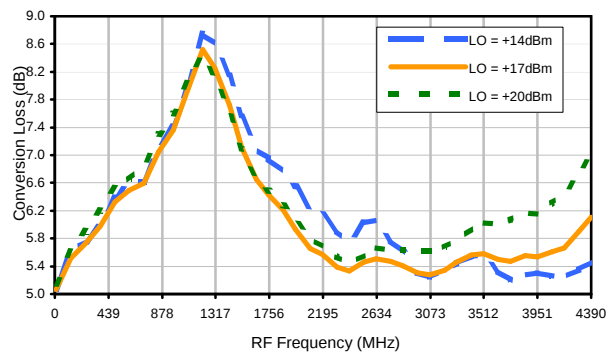
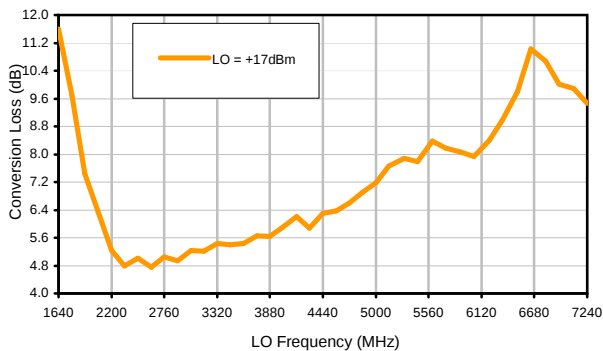


Typical Performance Curves

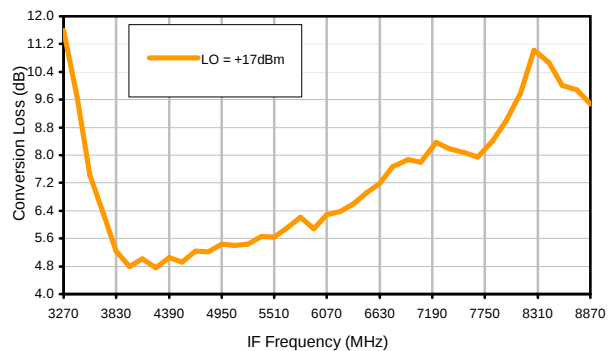
Conversion Loss @ IF=4560MHz



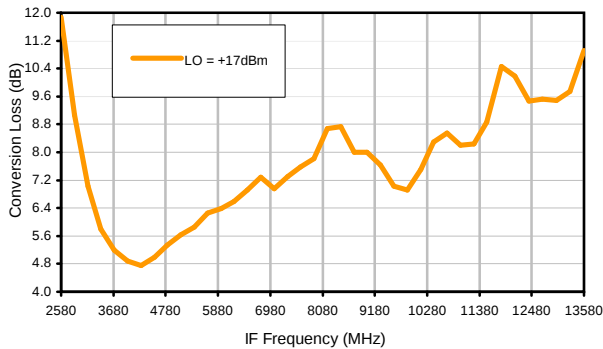
Conversion Loss vs. LO @ RF=1630.1MHz



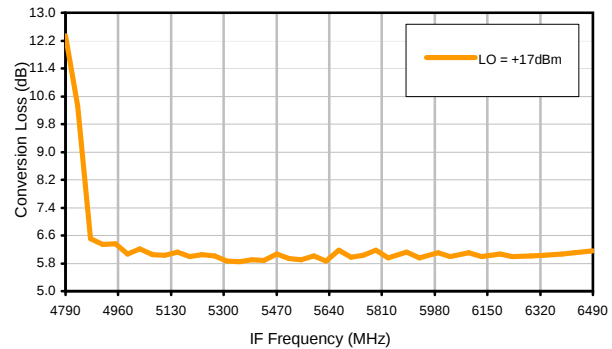
Conversion Loss vs. IF @ RF=1630.1MHz



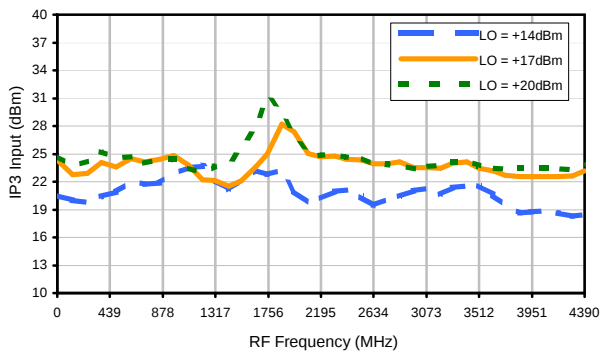
Conversion Loss vs. IF @ RF=10.1MHz



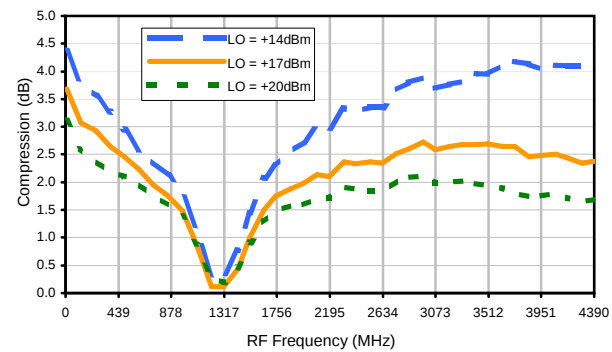
Conversion Loss vs. IF @ RF=3250.1001MHz



IP3 Input



Compression @ RF IN=+14dBm

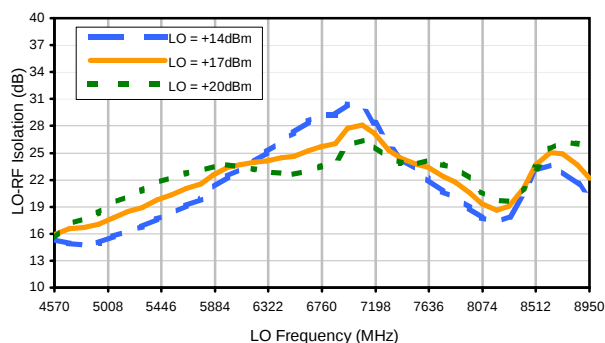


Frequency Mixer

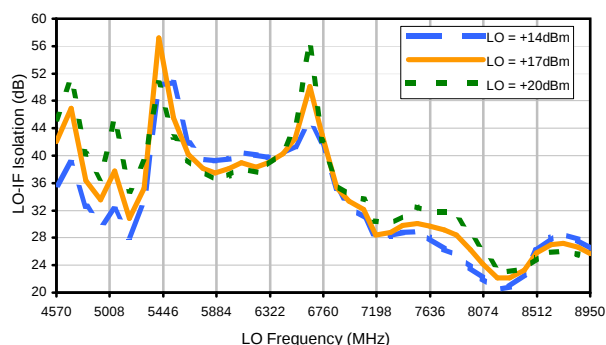
MCA1-ED12413/1

Typical Performance Curves

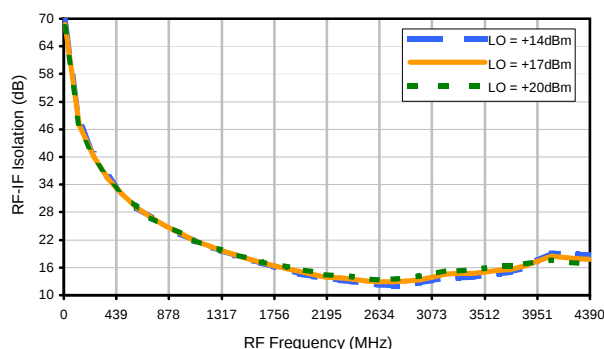
LO-RF Isolation



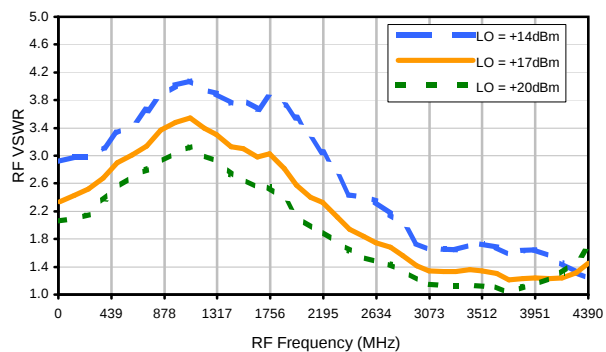
LO-IF Isolation



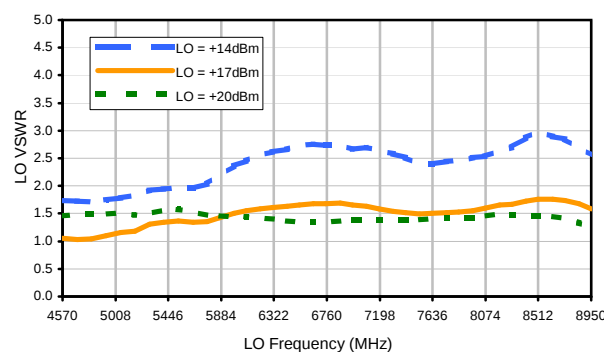
RF-IF Isolation



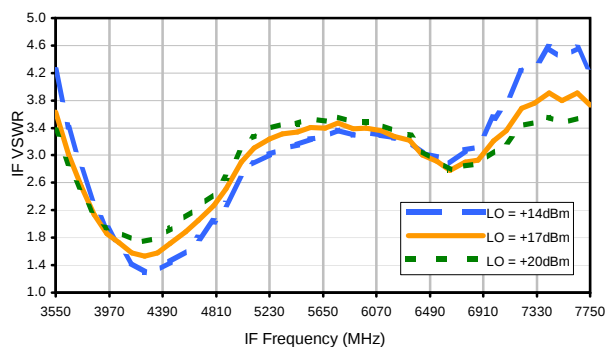
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	+5	32	---	---	---	---	---	---	---
1	-	11	+0	18	23	44	---	---	---	---	---	---
2	60	41	46	41	54	70	---	---	---	---	---	---
3	>90	74	69	74	60	81	---	---	---	---	---	---
4	>90	81	>82	82	>82	>82	---	---	---	---	---	---
5	>90	>82	>82	>82	>82	>82	>82	---	---	---	---	---
6	>90	>82	>82	>82	>82	>82	>82	---	---	---	---	---
7	>90	>82	>82	>82	>82	>82	>82	---	---	---	---	---
8	>90	>82	>82	>82	>82	>82	>82	---	---	---	---	---
9	>90	>82	>82	>82	>82	>82	>82	>82	---	---	---	---
10	>90	>82	>82	>82	>82	>82	>82	>82	---	---	---	---
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions:

RF IN: 1625 MHz; -1.00 dBm.

LO IN: 6185 MHz; +17.00 dBm

IF OUT: 4560 MHz; -7.78 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	7	42	---	---	---	---	---	---	---
1	-	11	+0	19	24	47	---	---	---	---	---	---
2	40	34	36	29	45	60	---	---	---	---	---	---
3	76	46	44	57	37	61	---	---	---	---	---	---
4	>90	47	70	46	54	80	---	---	---	---	---	---
5	>90	61	53	62	53	63	90	---	---	---	---	---
6	>90	56	60	57	62	64	86	---	---	---	---	---
7	>90	65	59	74	63	70	>92	---	---	---	---	---
8	>90	69	75	83	71	69	>92	---	---	---	---	---
9	>90	83	78	78	76	81	>92	>92	---	---	---	---
10	>90	>92	83	88	86	82	>92	>92	---	---	---	---
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1625 MHz; 9.00 dBm.

LO IN: 6185 MHz; +17.00 dBm

IF OUT: 4560 MHz; 2.32 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.

REV. X2

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