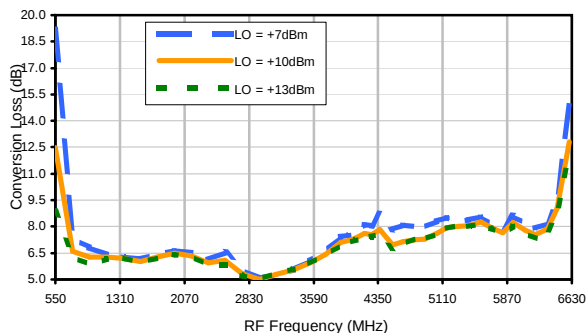


Frequency Mixer

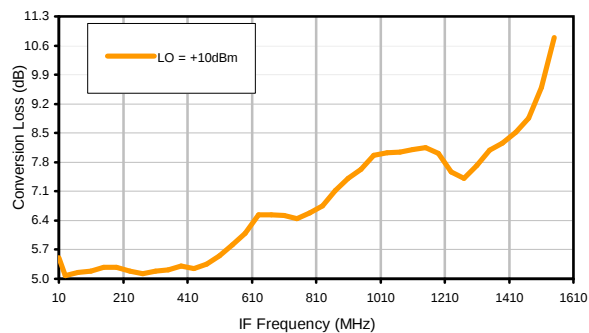
ZX05-ED12902/4

Typical Performance Curves

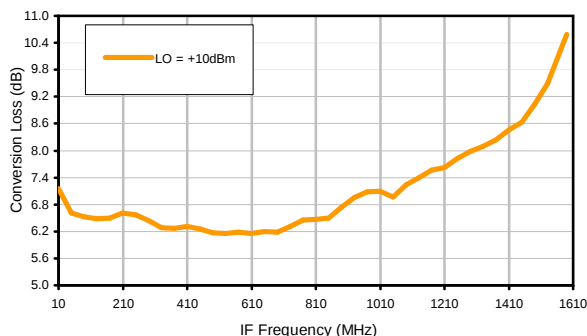
Conversion Loss @ IF=30MHz



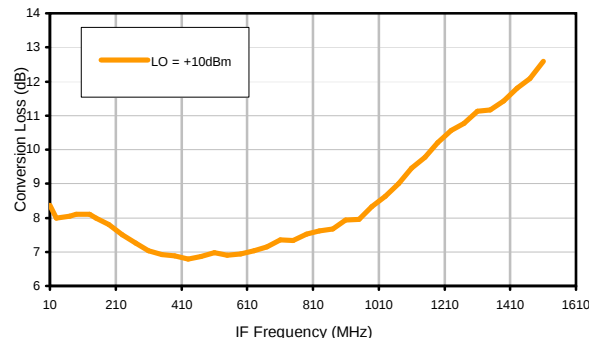
Conversion Loss vs. IF @ RF=3010.1MHz



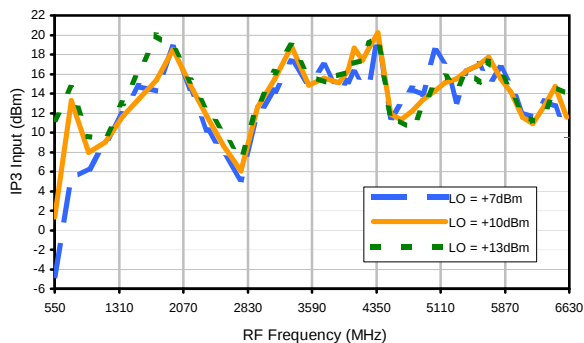
Conversion Loss vs. IF @ RF=739.9MHz



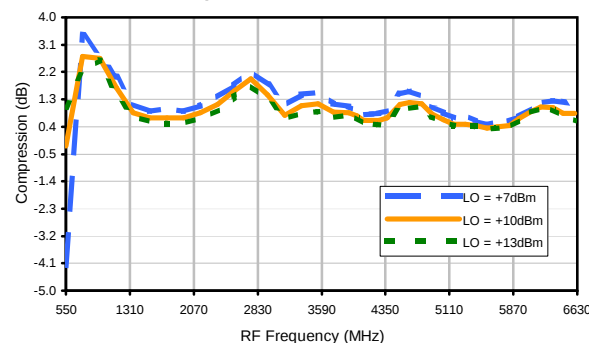
Conversion Loss vs. IF @ RF=6010.1MHz



IP3 Input

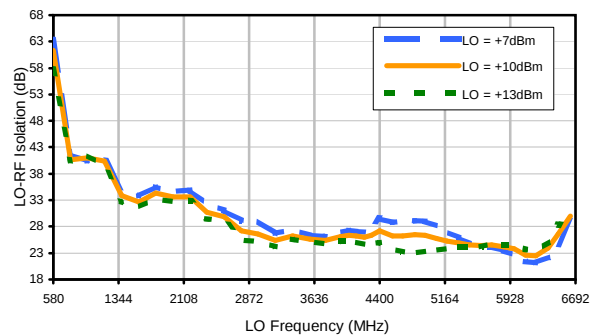


Compression @ RF IN=+3dBm

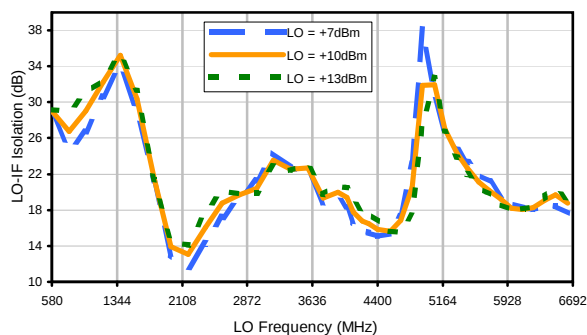


Typical Performance Curves

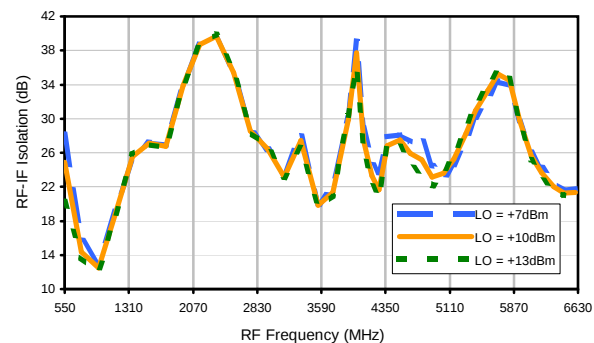
LO-RF Isolation



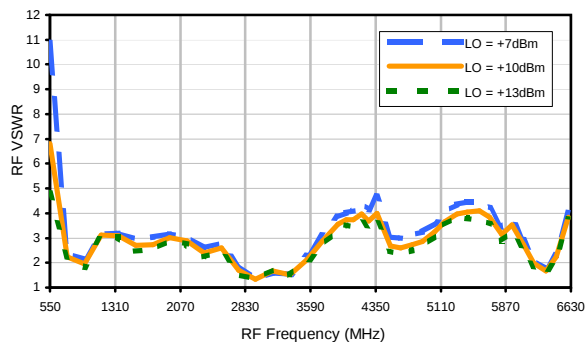
LO-IF Isolation



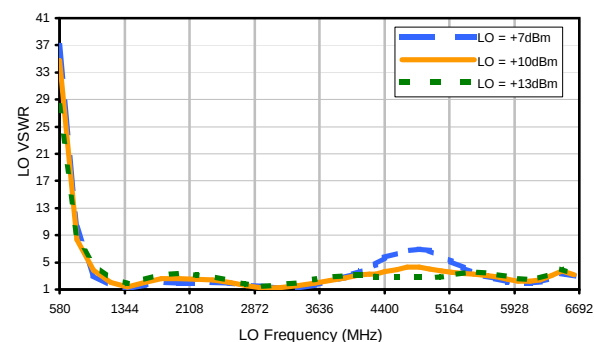
RF-IF Isolation



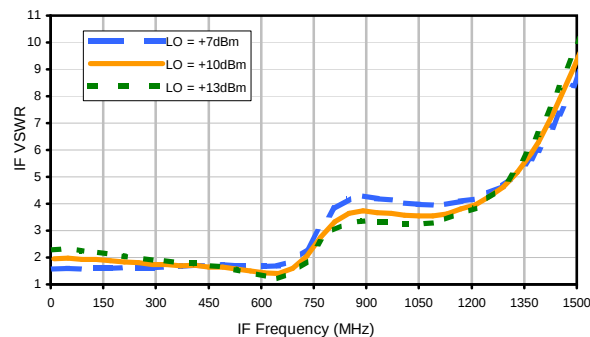
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

ZX05-ED12902/4

Harmonics Tables

RF HARMONICS ORDER	LO HARMONICS ORDER											
	(-dBm)	(-dBc)										
0	-	-	4	4	12	36	19	36	32	---	---	---
1	-	18	+0	22	12	31	41	57	46	46	---	---
2	90	63	52	60	69	64	64	>72	64	67	65	---
3	>90	>72	66	>72	67	>72	66	>72	>72	>72	>72	>72
4	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
5	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
6	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
7	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
8	---	---	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
9	---	---	---	>72	>72	>72	>72	>72	>72	>72	>72	>72
10	---	---	---	---	>72	>72	>72	>72	>72	>72	>72	>72
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions:

RF IN: 3375 MHz; -12.00 dBm.

LO IN: 3405 MHz; +10.00 dBm

IF OUT: 30 MHz; -17.76 dBm

RF HARMONICS ORDER	LO HARMONICS ORDER											
	(-dBm)	(-dBc)										
0	-	-	6	15	22	48	30	49	45	---	---	---
1	-	17	+0	22	12	32	41	56	48	47	---	---
2	70	51	40	49	64	53	56	70	55	58	56	---
3	>90	62	45	55	44	52	44	60	70	70	65	70
4	>90	>82	71	66	70	61	65	65	77	>82	77	75
5	>90	75	>82	>82	70	75	68	>82	72	82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	77	82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	---	---	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	---	---	---	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	---	---	---	---	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions:

RF IN: 3375 MHz; -2.00 dBm.

LO IN: 3405 MHz; +10.00 dBm

IF OUT: 30 MHz; -7.85 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
ZX05-ED12902/4
101011
Page 3 of 3