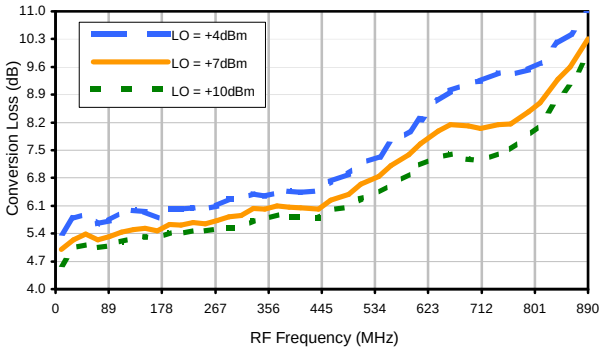
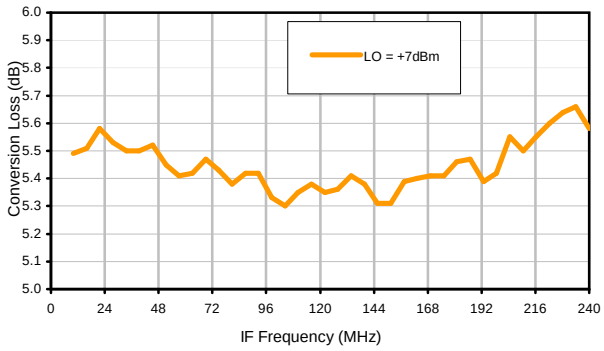
Frequency Mixer ZP-10514

Typical Performance Curves

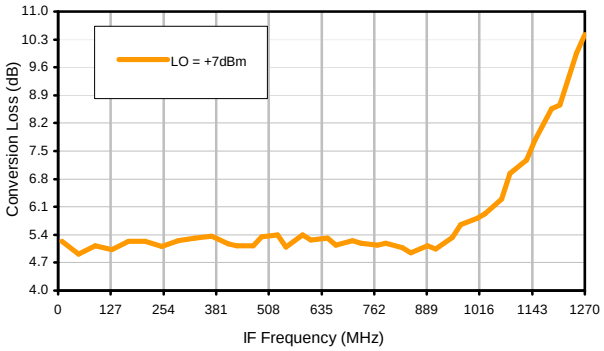
Conversion Loss @ IF=30MHz



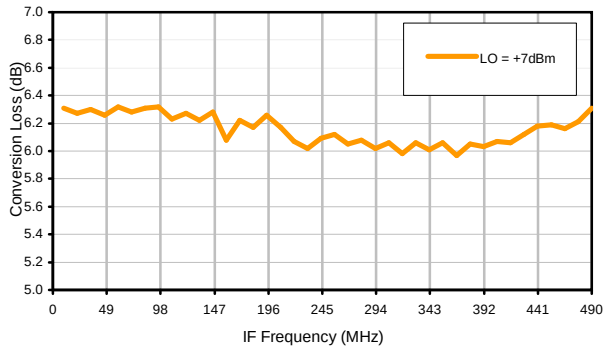
Conversion Loss vs. IF @ RF=250.1MHz



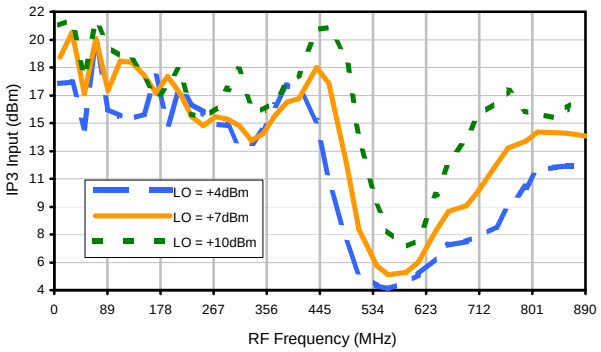
Conversion Loss vs. IF @ RF=10.1MHz



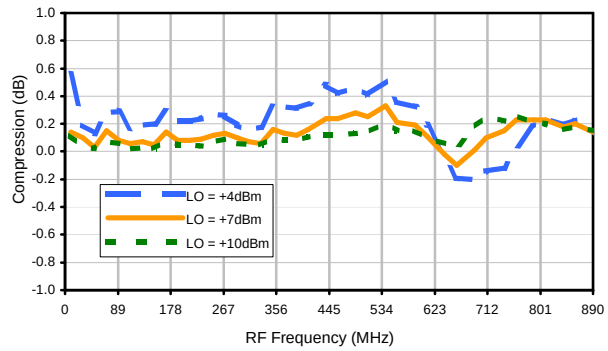
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input

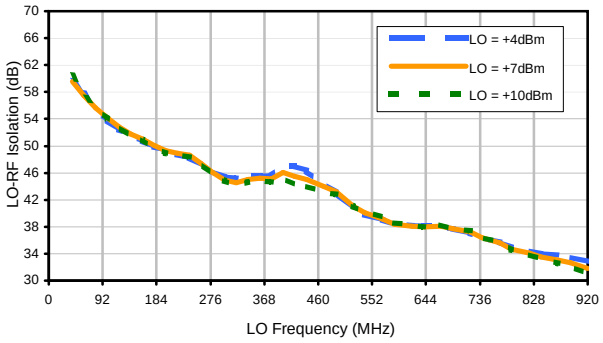


Compression @ RF IN=+1dBm

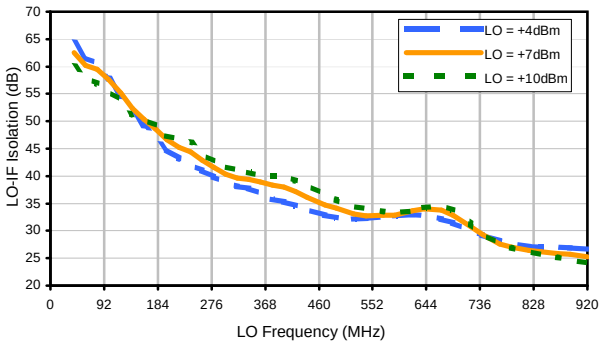


Typical Performance Curves

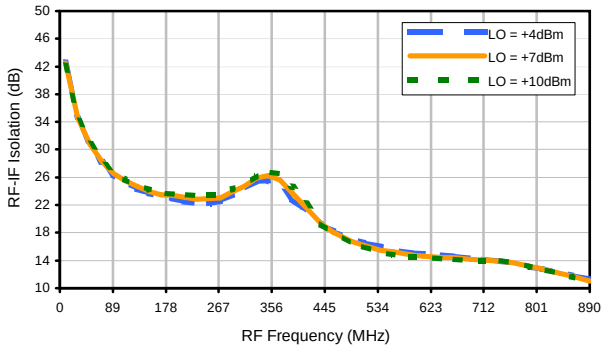
LO-RF Isolation



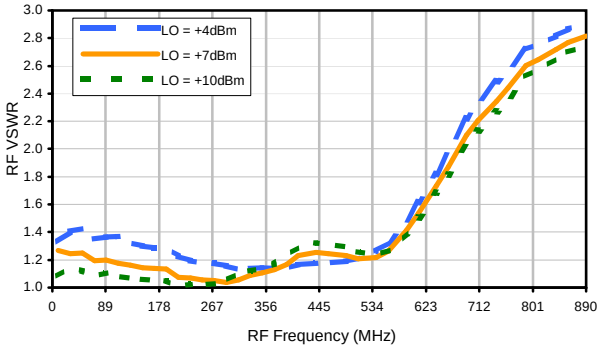
LO-IF Isolation



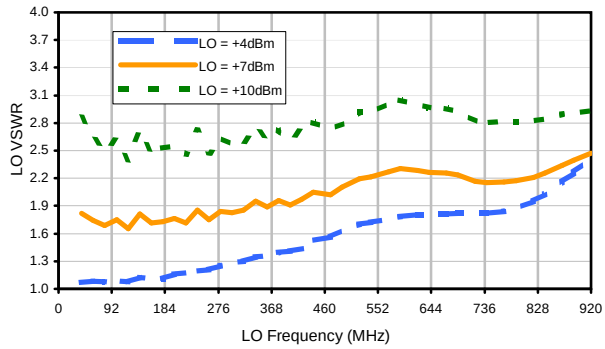
RF-IF Isolation



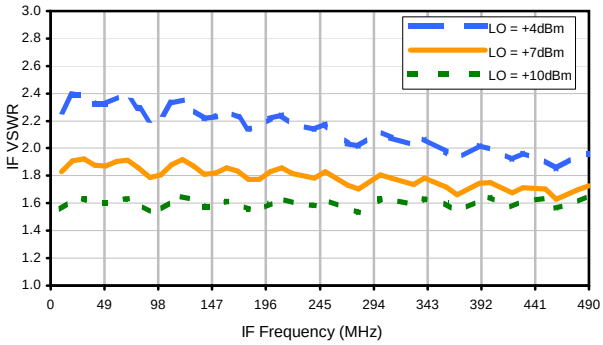
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	14	24	19	31	18	46	25	43	46	44
1	-	17	+0	25	13	36	25	39	36	41	39	41
2	82	>69	67	>69	62	>69	66	69	57	>69	60	>69
3	>90	>69	66	>69	63	>69	59	>69	58	>69	68	>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: 250.1 MHz; -14.00 dBm.**
LO IN: 280.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -19.69 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	25	34	30	44	31	59	41	61	57	60
1	-	17	+0	26	13	35	23	41	41	44	44	43
2	62	68	57	66	53	66	58	63	50	66	52	>79
3	>90	52	44	50	46	57	42	52	46	60	53	61
4	>90	>79	77	>79	78	78	72	75	78	>79	71	77
5	>90	73	68	75	62	75	58	71	56	74	58	77
6	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>90	>79	>79	>79	79	>79	75	>79	74	>79	72	>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: 250.1 MHz; -4.00 dBm.**
LO IN: 280.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -9.62 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.