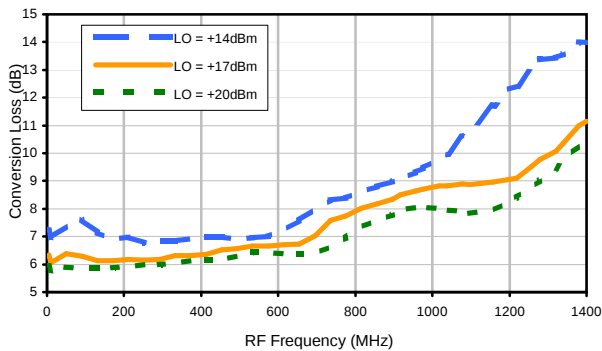


Frequency Mixer

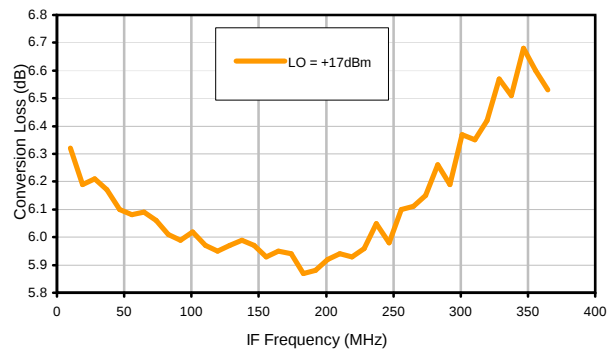
ZX05-1HW+

Typical Performance Curves

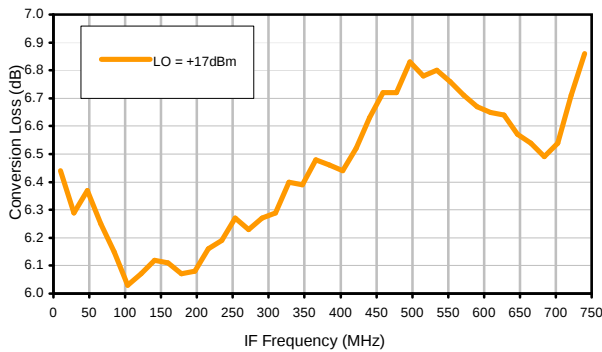
Conversion Loss @ IF=30MHz



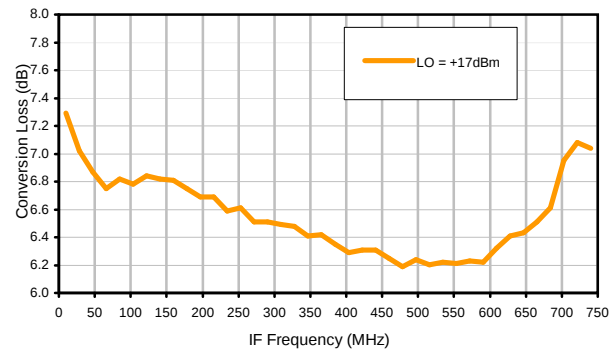
Conversion Loss vs. IF @ RF=375.1MHz



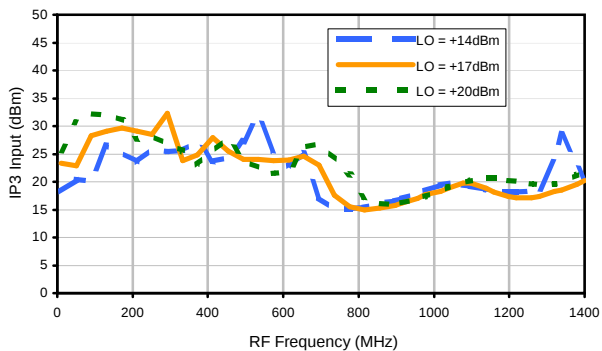
Conversion Loss vs. IF @ RF=10.1MHz



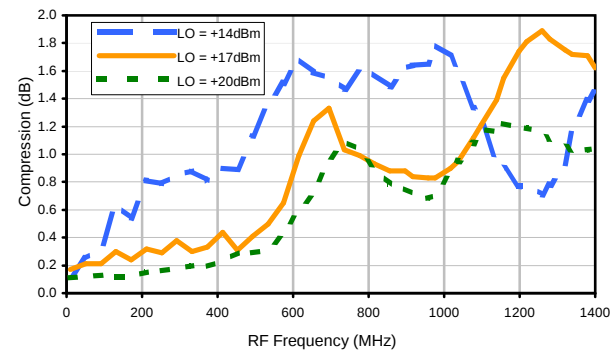
Conversion Loss vs. IF @ RF=750.1MHz



IP3 Input

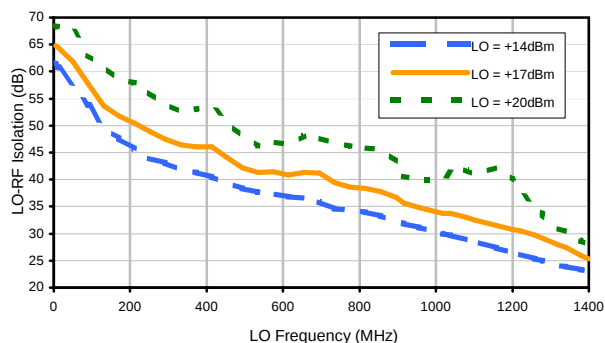


Compression @ RF IN=+14dBm

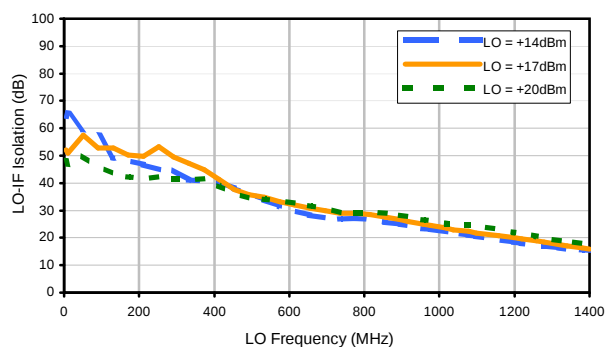


Typical Performance Curves

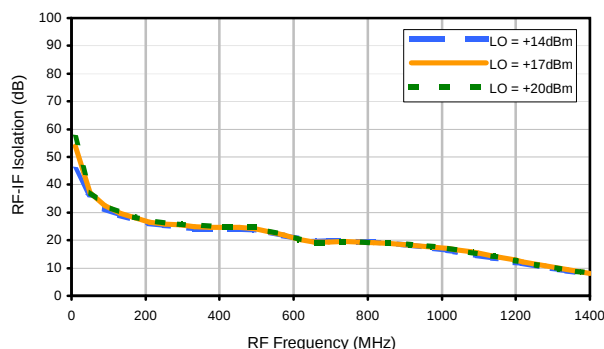
LO-RF Isolation



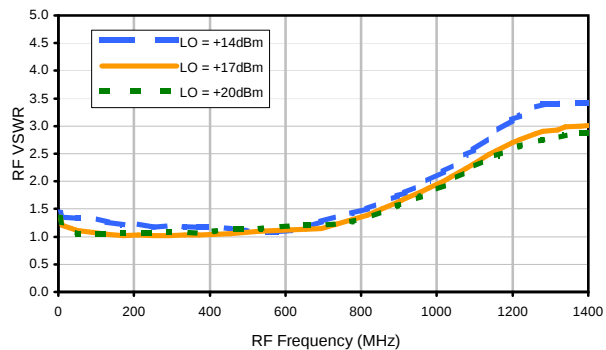
LO-IF Isolation



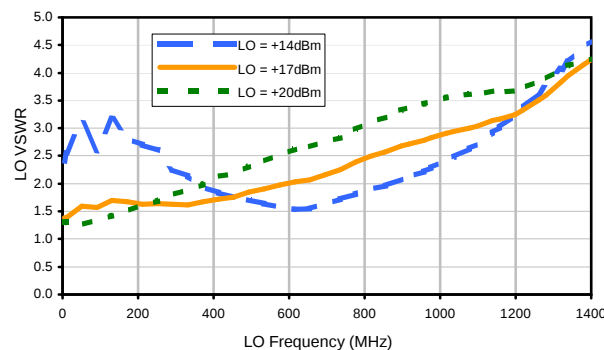
RF-IF Isolation



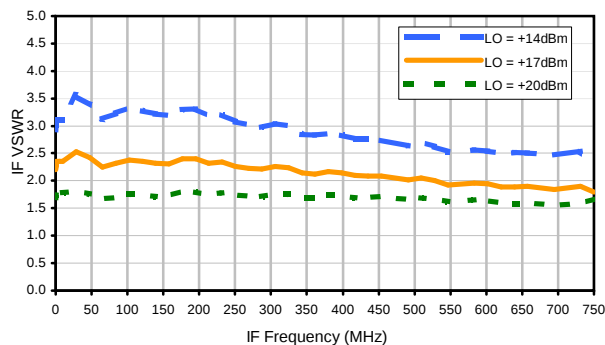
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	32	7	25	17	37	39	42	38	46
1	-	18	+0	32	14	31	30	35	28	58	33	52
2	>100	85	44	57	43	56	40	62	50	59	62	62
3	>100	65	56	66	55	73	49	68	49	65	52	71
4	>100	76	77	78	85	73	75	76	74	74	71	79
5	>100	>92	78	85	79	83	74	80	74	80	77	83
6	>100	>92	>92	89	90	92	86	>92	84	>92	84	>92
7	>100	>92	>92	>92	>92	>92	>92	92	90	>92	>92	>92
8	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 370.1 MHz; -1.00 dBm.
LO IN: 400.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -7.6 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	27	42	20	37	32	57	55	63	52	62
1	-	19	+0	33	14	34	25	37	36	58	43	55
2	89	57	41	53	38	57	35	54	43	59	64	64
3	>100	51	42	54	47	58	38	50	43	55	42	74
4	>100	65	52	82	52	67	52	65	48	84	61	72
5	>100	73	59	77	53	73	50	63	46	67	49	63
6	>100	89	63	77	65	77	66	78	65	84	63	79
7	>100	83	84	78	67	91	67	78	63	76	60	80
8	>100	99	85	89	79	79	80	78	76	75	69	78
9	>100	100	91	100	80	91	70	80	69	80	70	78
10	>100	102	>102	101	102	93	89	85	78	84	76	83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 370.1 MHz; 9.00 dBm.
LO IN: 400.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 2.38 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
ZX05-1HW+
100818
Page 3 of 3

