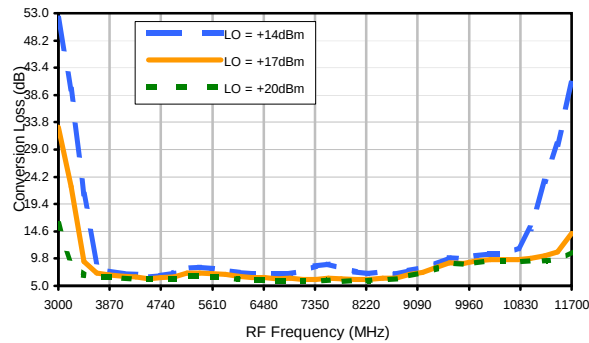


Frequency Mixer

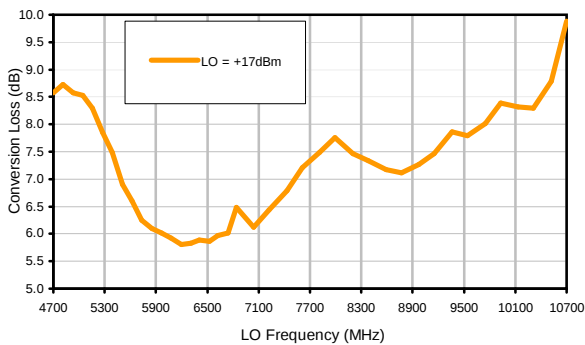
ZX05-ED12902/11

Typical Performance Curves

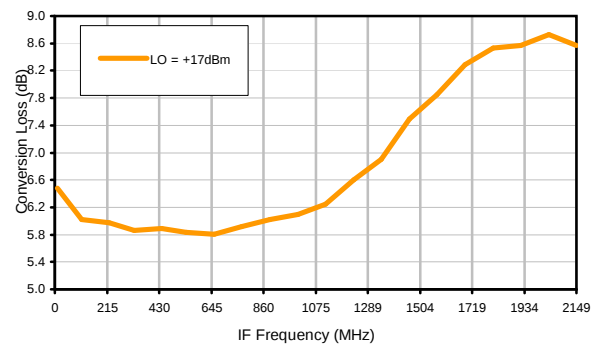
Conversion Loss @ IF=30MHz



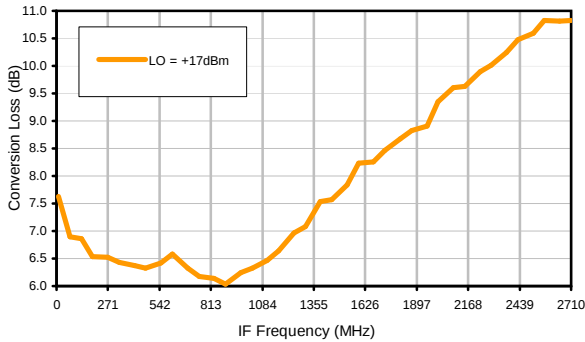
Conversion Loss vs. LO @ RF=6850MHz



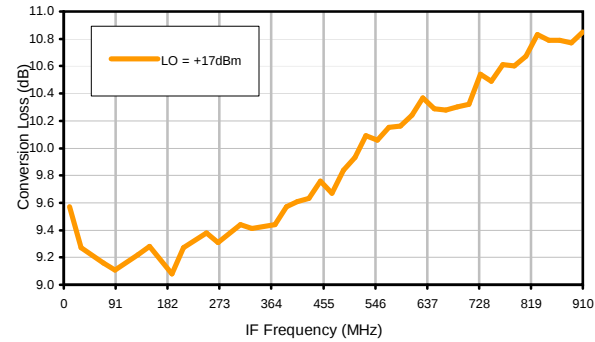
Conversion Loss vs. IF @ RF=6850MHz



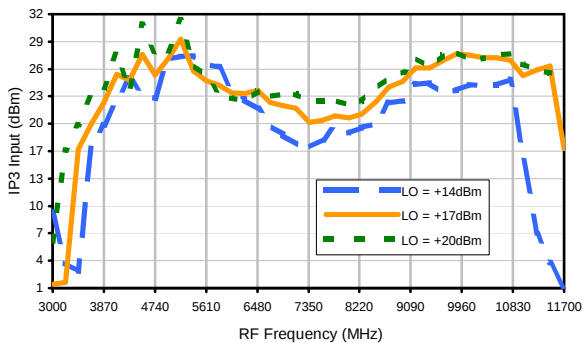
Conversion Loss vs. IF @ RF=3690MHz



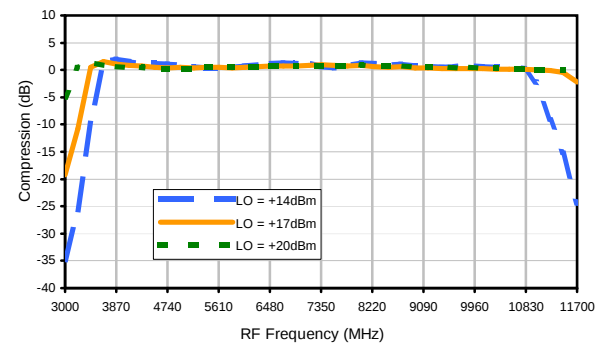
Conversion Loss vs. IF @ RF=10010.099MHz



IP3 Input



Compression @ RF IN=+14dBm



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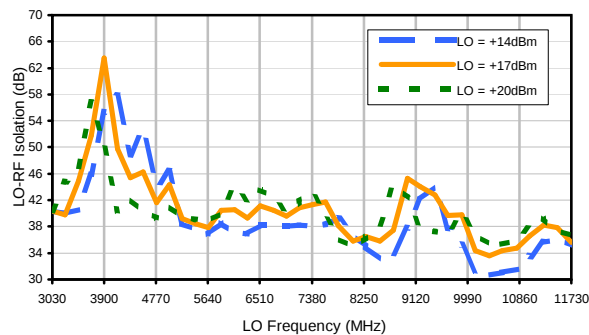


Frequency Mixer

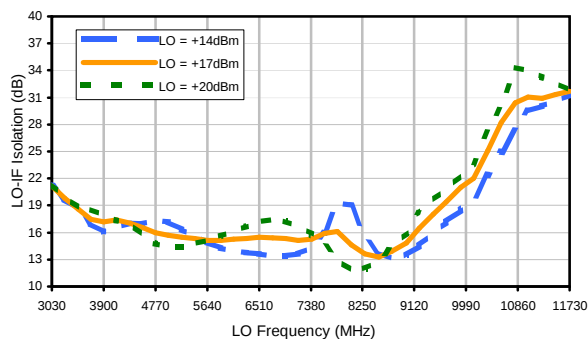
ZX05-ED12902/11

Typical Performance Curves

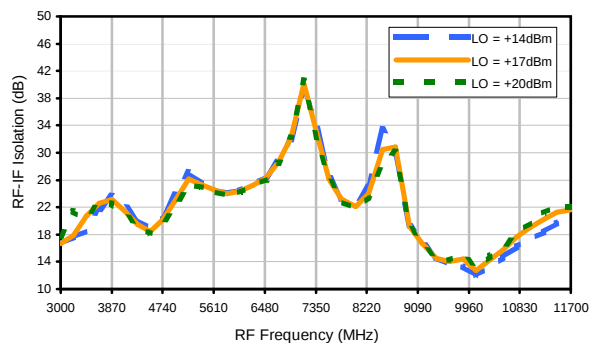
LO-RF Isolation



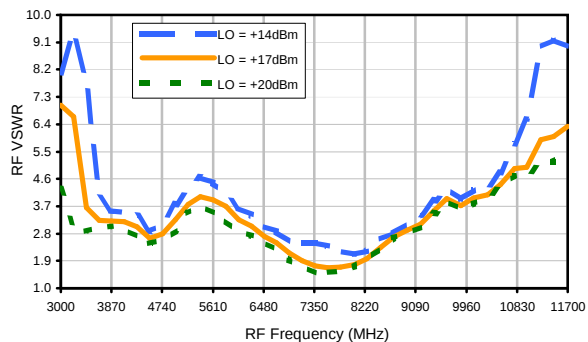
LO-IF Isolation



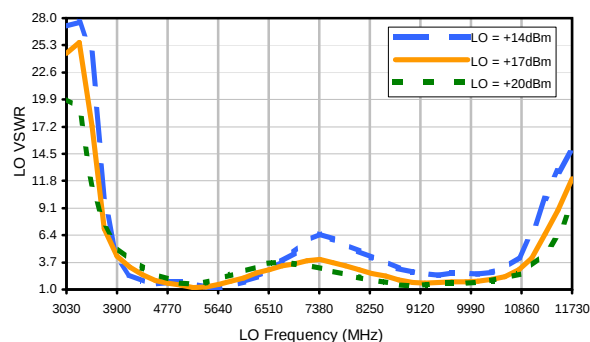
RF-IF Isolation



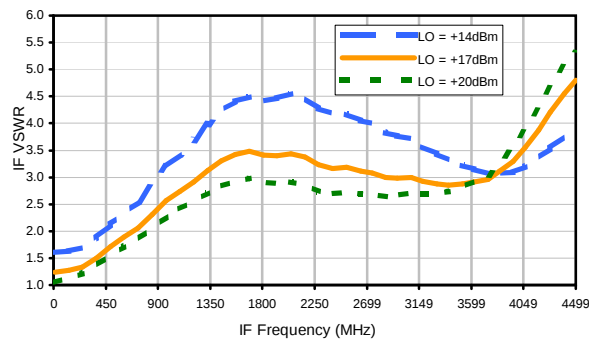
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)											
	0	-	-	+10	30	17	---	---	---	---	---	---	---
	1	-	24	+0	46	29	46	---	---	---	---	---	---
	2	60	63	41	56	42	70	60	---	---	---	---	---
	3	>90	74	62	72	57	77	74	>83	---	---	---	---
	4	---	---	>83	>83	80	81	77	>83	>83	---	---	---
	5	---	---	---	>83	>83	>83	>83	>83	>83	>83	---	---
	6	---	---	---	---	>83	>83	>83	>83	>83	>83	>83	---
	7	---	---	---	---	---	>83	>83	>83	>83	>83	>83	>83
	8	---	---	---	---	---	---	>83	>83	>83	>83	>83	>83
	9	---	---	---	---	---	---	---	>83	>83	>83	>83	>83
	10	---	---	---	---	---	---	---	---	>83	>83	>83	>83
	RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 6850 MHz; -1.00 dBm.
LO IN: 6880 MHz; +17.00 dBm
IF OUT: 30 MHz; -7.44 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)											
	0	-	-	+0	43	29	---	---	---	---	---	---	---
	1	-	23	+0	48	29	50	---	---	---	---	---	---
	2	40	52	32	50	34	60	53	---	---	---	---	---
	3	61	53	42	56	38	66	61	72	---	---	---	---
	4	---	---	73	85	54	61	53	70	75	---	---	---
	5	---	---	---	82	67	72	52	72	68	79	---	---
	6	---	---	---	---	>92	88	70	67	66	81	74	---
	7	---	---	---	---	---	>92	81	84	66	79	80	81
	8	---	---	---	---	---	---	>92	>92	83	75	75	91
	9	---	---	---	---	---	---	---	>92	>92	>92	76	85
	10	---	---	---	---	---	---	---	---	>92	>92	>92	82
	RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 6850 MHz; 9.00 dBm.
LO IN: 6880 MHz; +17.00 dBm
IF OUT: 30 MHz; 2.46 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.