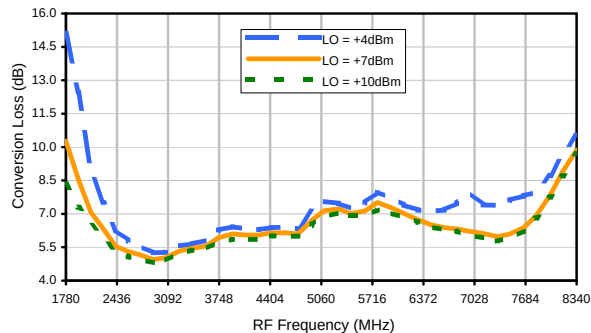


Frequency Mixer

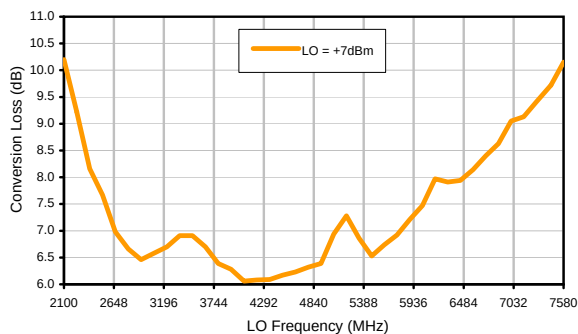
SKY-ED6905/1

Typical Performance Curves

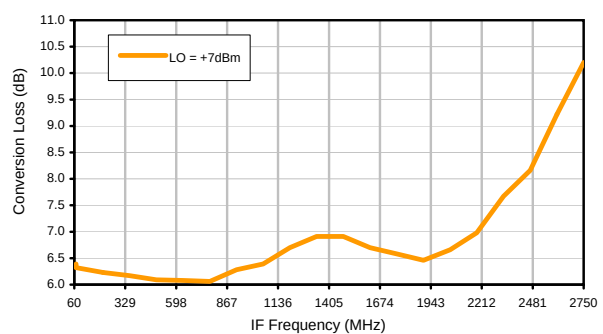
Conversion Loss @ IF=30MHz



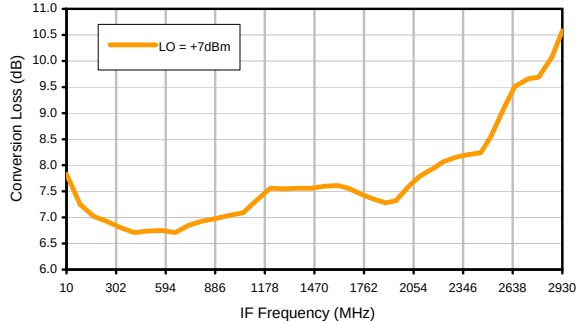
Conversion Loss vs. LO @ RF=4850MHz



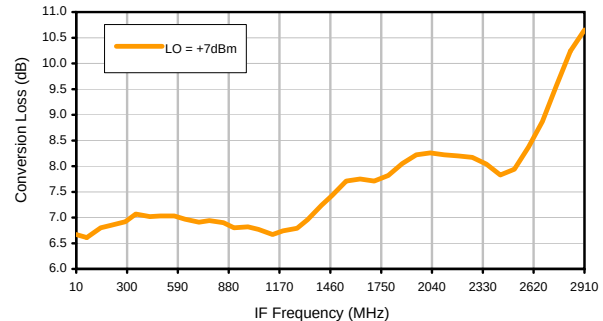
Conversion Loss vs. IF @ RF=4850MHz



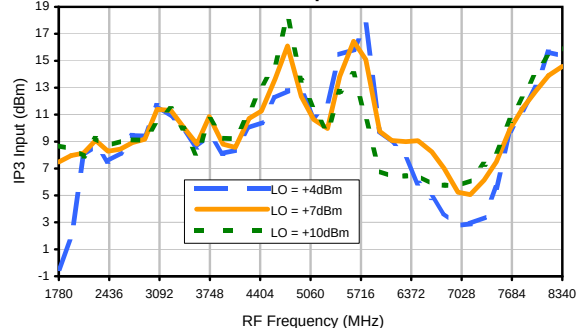
Conversion Loss vs. IF @ RF=2039.9MHz



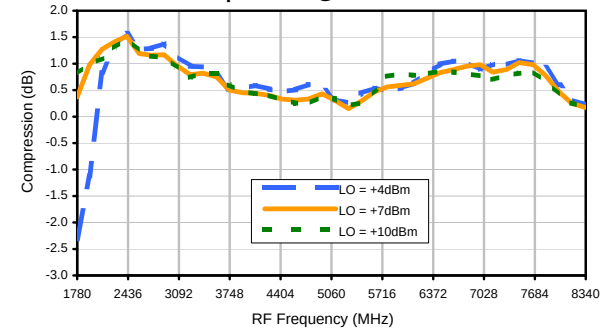
Conversion Loss vs. IF @ RF=7660.1MHz



IP3 Input



Compression @ RF IN=0dBm



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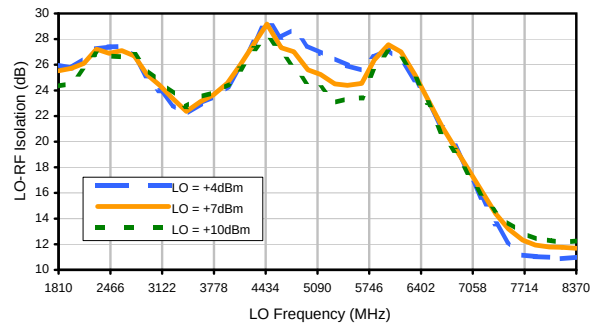


Frequency Mixer

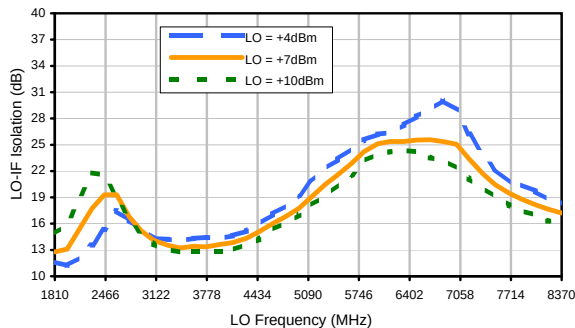
SKY-ED6905/1

Typical Performance Curves

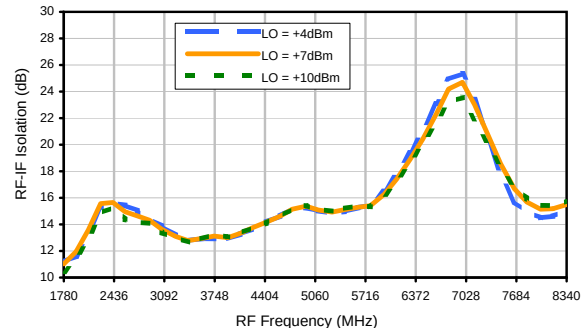
LO-RF Isolation



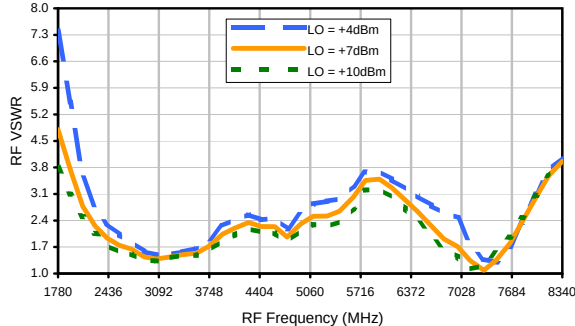
LO-IF Isolation



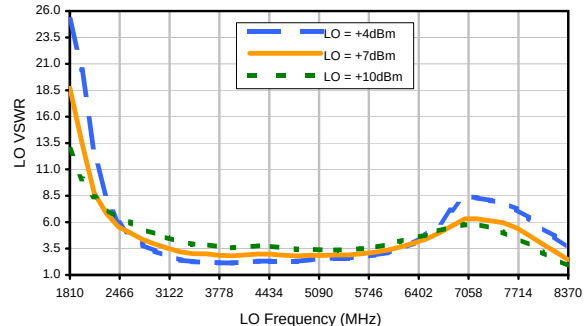
RF-IF Isolation



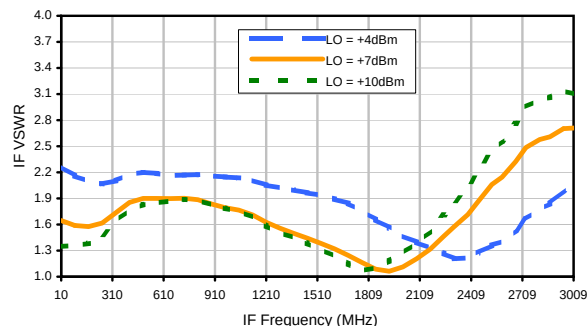
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

SKY-ED6905/1

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+11	30	3	41	---	---	---	---	---	---
1	-	9	+0	37	34	27	48	---	---	---	---	---
2	>90	>69	58	49	59	>69	53	>69	---	---	---	---
3	>90	>69	>69	>69	>69	>69	>69	68	67	---	---	---
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	---	---
5	---	---	>69	>69	>69	>69	>69	>69	>69	>69	>69	---
6	---	---	---	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	---	---	---	---	>69	>69	>69	>69	>69	>69	>69	>69
8	---	---	---	---	---	>69	>69	>69	>69	>69	>69	>69
9	---	---	---	---	---	---	>69	>69	>69	>69	>69	>69
10	---	---	---	---	---	---	---	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 4850 MHz; -15.00 dBm.
LO IN: 4880 MHz; +7.00 dBm
IF OUT: 30 MHz; -21.35 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+1	39	14	53	---	---	---	---	---	---
1	-	9	+0	38	34	29	49	---	---	---	---	---
2	73	63	48	39	50	62	45	72	---	---	---	---
3	>90	51	>79	57	59	56	63	49	71	---	---	---
4	>90	>79	65	>79	70	63	64	>79	65	>79	---	---
5	---	---	>79	>79	>79	>79	68	>79	>79	72	>79	---
6	---	---	---	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	---	---	---	---	>79	>79	>79	>79	>79	>79	>79	>79
8	---	---	---	---	---	>79	>79	>79	>79	>79	>79	>79
9	---	---	---	---	---	---	>79	>79	>79	>79	>79	>79
10	---	---	---	---	---	---	---	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 4850 MHz; -5.00 dBm.
LO IN: 4880 MHz; +7.00 dBm
IF OUT: 30 MHz; -11.42 dBm

LO HARMONICS ORDER

Test conditions: RF IN: 4850 MHz; -5.00 dBm.
LO IN: 4880 MHz; +7.00 dBm
IF OUT: 30 MHz; -11.42 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.