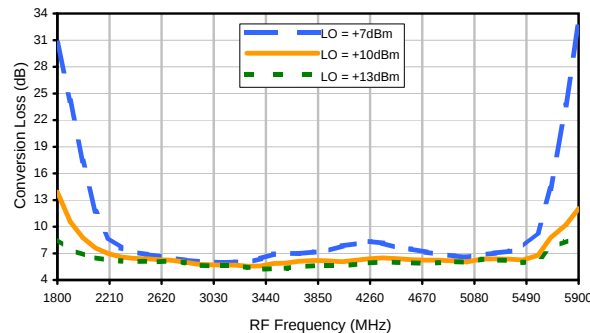


Frequency Mixer

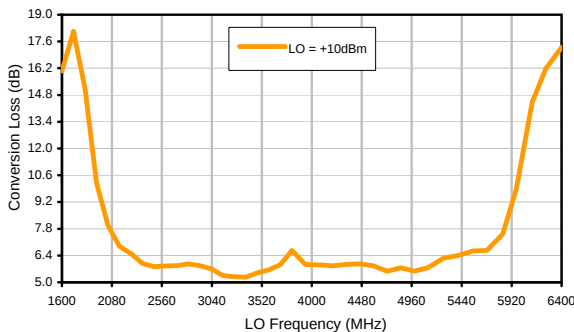
SKY-ED7206/1

Typical Performance Curves

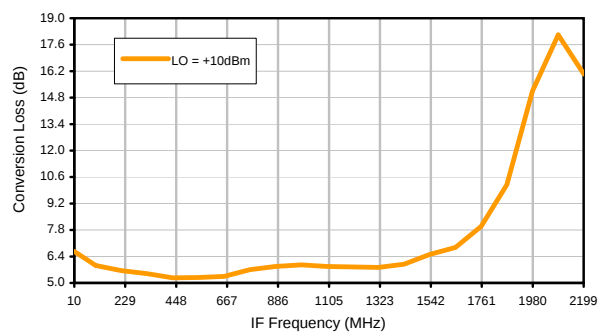
Conversion Loss @ IF=30MHz



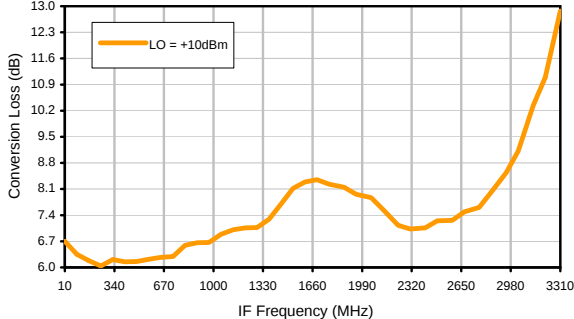
Conversion Loss vs. LO @ RF=3800MHz



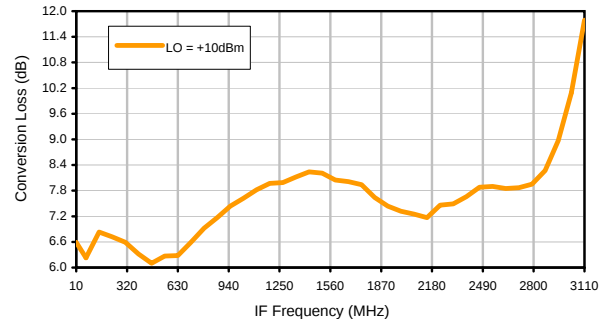
Conversion Loss vs. IF @ RF=3800MHz



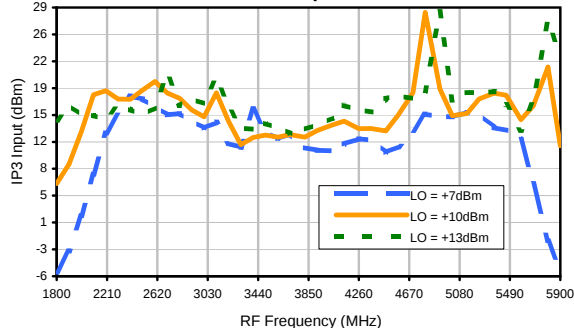
Conversion Loss vs. IF @ RF=2390MHz



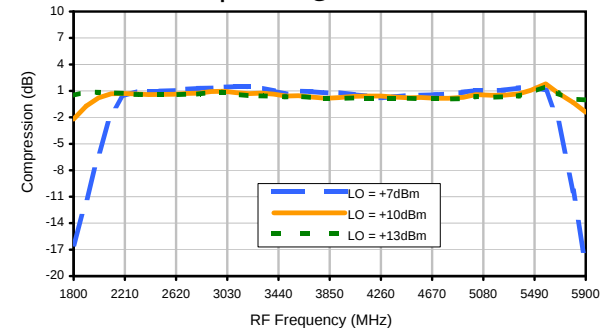
Conversion Loss vs. IF @ RF=5210.1MHz



IP3 Input



Compression @ RF IN=+6dBm



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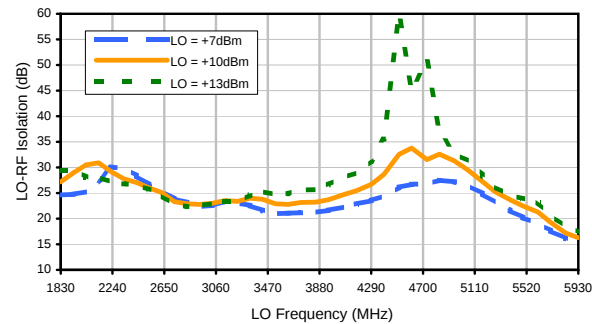


Frequency Mixer

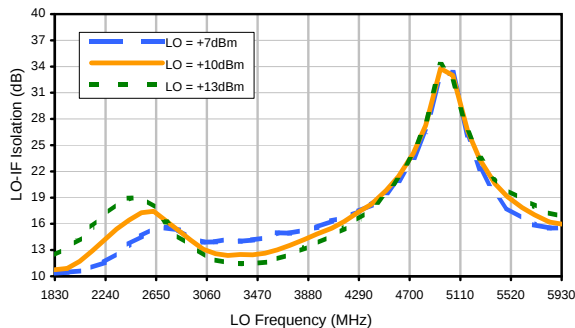
SKY-ED7206/1

Typical Performance Curves

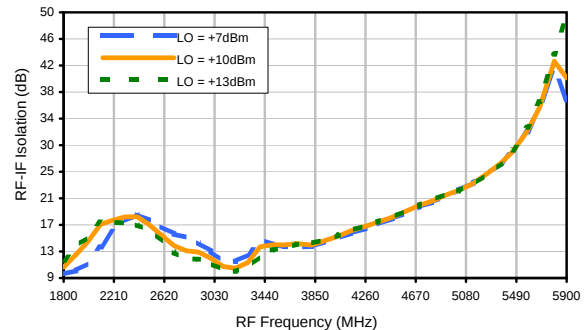
LO-RF Isolation



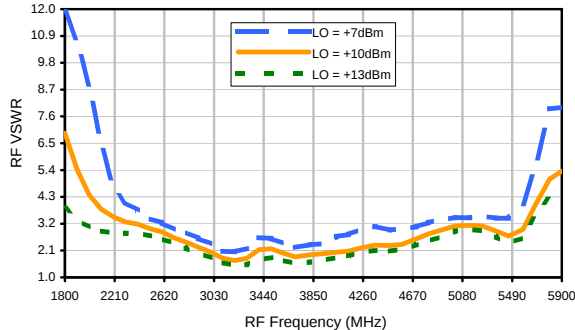
LO-IF Isolation



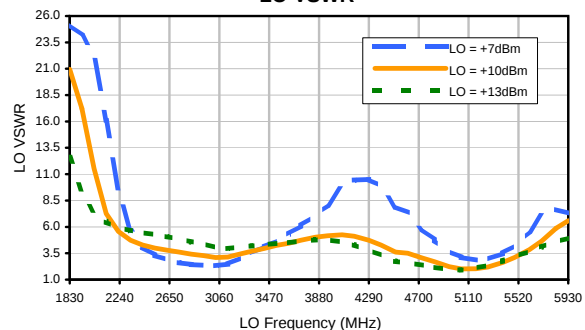
RF-IF Isolation



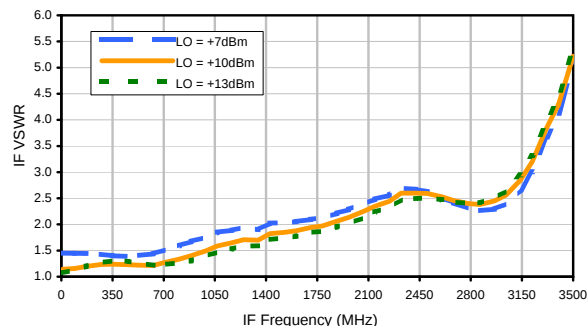
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

SKY-ED7206/1

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+12	29	9	33	35	61	---	---	---	---
1	-	8	+0	22	40	25	42	52	48	---	---	---
2	84	44	47	39	39	48	50	50	65	59	---	---
3	>90	49	73	50	54	61	66	65	67	72	65	---
4	>90	>75	>75	>75	>75	72	>75	>75	68	>75	>75	>75
5	>90	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
6	>90	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
7	---	---	>75	>75	>75	>75	>75	>75	>75	>75	>75	>75
8	---	---	---	>75	73	>75	>75	>75	>75	>75	>75	>75
9	---	---	---	---	>75	>75	>75	>75	>75	>75	>75	>75
10	---	---	---	---	---	>75	>75	>75	>75	>75	>75	>75
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 3800 MHz; -9.00 dBm.
LO IN: 3830 MHz; +10.00 dBm
IF OUT: 30 MHz; -15.26 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+2	43	23	40	50	62	---	---	---	---
1	-	8	+0	26	41	31	62	57	63	---	---	---
2	64	35	39	36	33	45	38	49	70	63	---	---
3	>90	33	57	33	54	46	58	48	61	71	73	---
4	>90	71	48	57	58	44	49	57	60	57	72	70
5	>90	70	75	50	80	52	49	66	66	67	67	78
6	>90	77	75	73	66	74	64	55	65	73	58	71
7	---	---	81	82	78	69	82	70	62	>85	78	>85
8	---	---	---	>85	78	84	70	>85	66	70	69	>85
9	---	---	---	---	>85	82	82	82	>85	72	77	>85
10	---	---	---	---	---	>85	>85	>85	79	>85	77	68
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 3800 MHz; 1.00 dBm.
LO IN: 3830 MHz; +10.00 dBm
IF OUT: 30 MHz; -5.23 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.