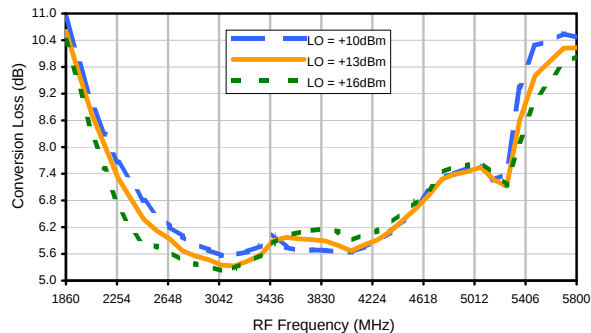


Frequency Mixer

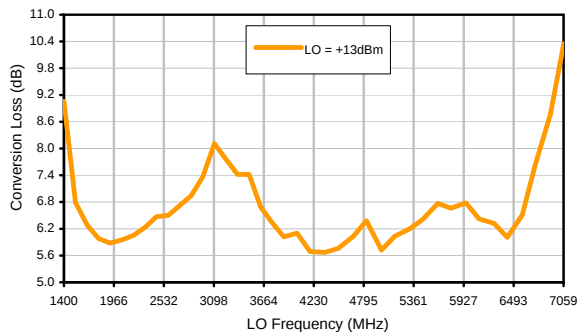
SKY-53MHR+

Typical Performance Curves

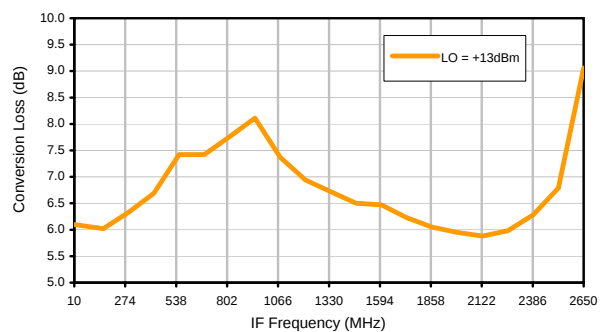
Conversion Loss @ IF=30MHz



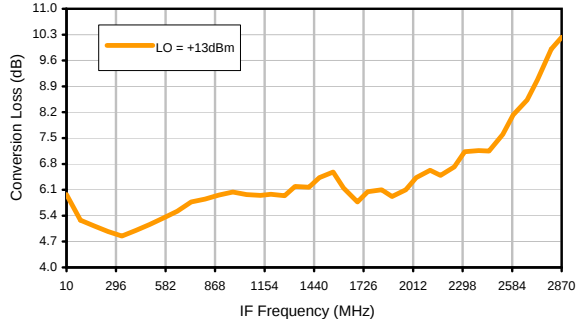
Conversion Loss vs. LO @ RF=4050MHz



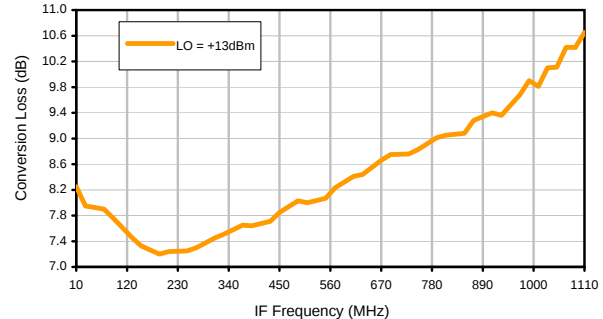
Conversion Loss vs. IF @ RF=4050MHz



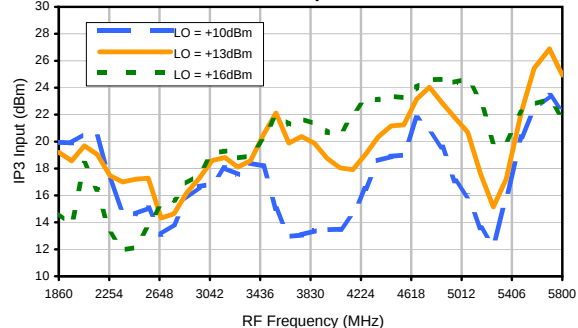
Conversion Loss vs. IF @ RF=2789.89MHz



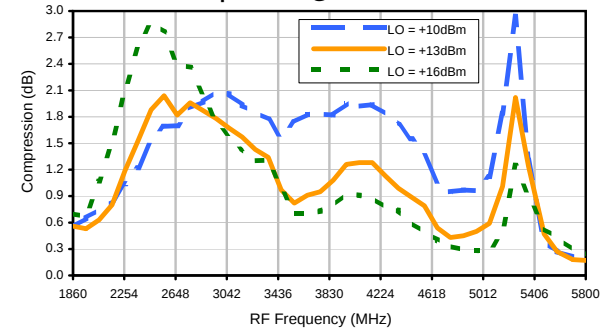
Conversion Loss vs. IF @ RF=5310.1MHz



IP3 Input



Compression @ RF IN=+9dBm

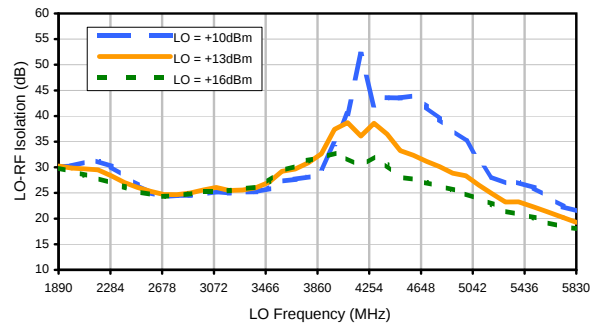


Frequency Mixer

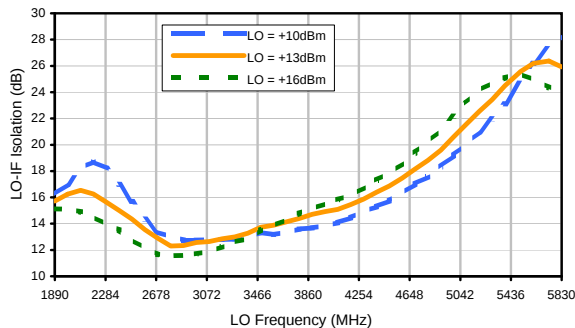
SKY-53MHR+

Typical Performance Curves

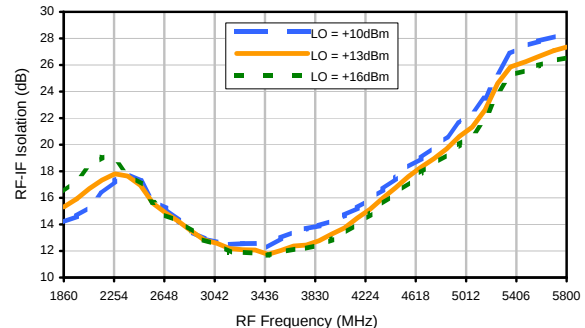
LO-RF Isolation



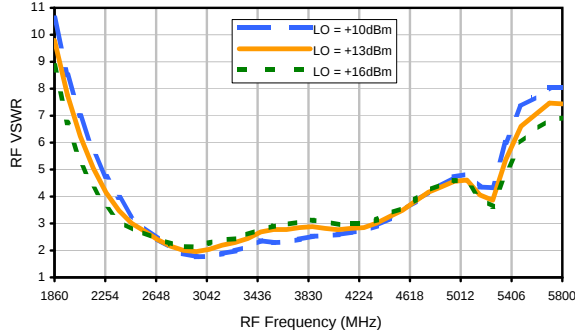
LO-IF Isolation



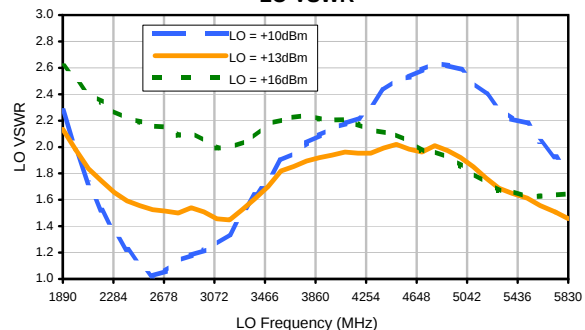
RF-IF Isolation



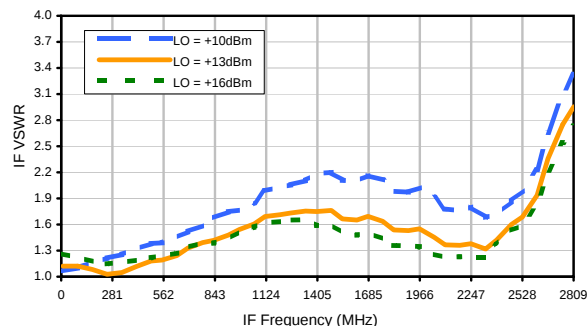
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

SKY-53MHR+

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+10	11	15	17	49	---	---	---	---	---
1	-	8	+0	30	36	50	36	53	---	---	---	---
2	76	58	51	50	64	58	55	59	59	---	---	---
3	>90	76	>78	>78	54	75	77	>78	67	>78	---	---
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	---
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	---	---	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	---	---	---	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	---	---	---	---	>78	>78	>78	>78	>78	>78	>78	>78
9	---	---	---	---	---	>78	>78	>78	>78	>78	>78	>78
10	---	---	---	---	---	---	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 4050 MHz; -6.00 dBm.
LO IN: 4080 MHz; +13.00 dBm
IF OUT: 30 MHz; -11.87 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	21	24	28	45	---	---	---	---	---
1	-	8	+0	31	37	45	41	56	---	---	---	---
2	57	48	41	40	54	50	49	52	55	---	---	---
3	84	54	64	78	35	56	63	60	53	73	---	---
4	>90	78	77	78	81	59	72	68	65	75	66	---
5	>90	85	78	79	88	76	53	80	76	77	68	85
6	---	---	>88	>88	>88	>88	>88	74	85	80	76	87
7	---	---	---	87	>88	87	>88	83	67	>88	>88	>88
8	---	---	---	---	>88	>88	>88	>88	>88	87	>88	>88
9	---	---	---	---	---	>88	>88	>88	>88	>88	79	>88
10	---	---	---	---	---	---	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 4050 MHz; 4.00 dBm.
LO IN: 4080 MHz; +13.00 dBm
IF OUT: 30 MHz; -2.15 dBm

LO HARMONICS ORDER

- 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.