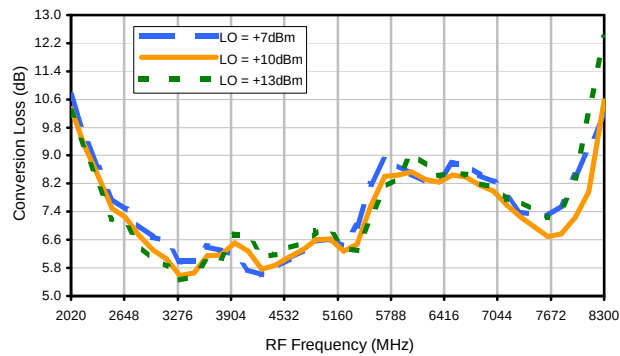


Frequency Mixer

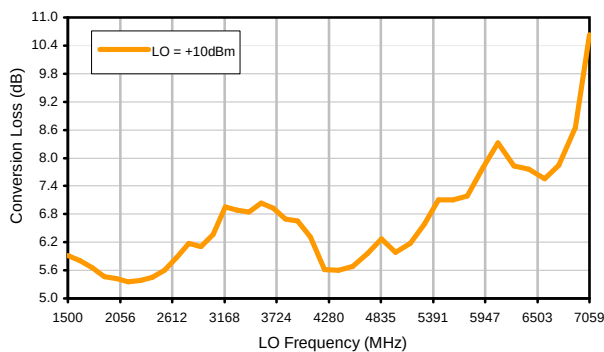
SKY-53LHR+

Typical Performance Curves

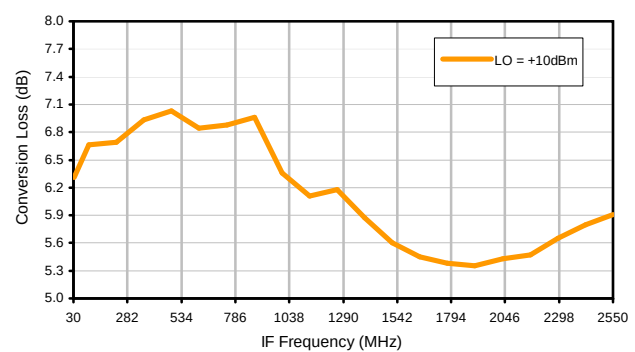
Conversion Loss @ IF=30MHz



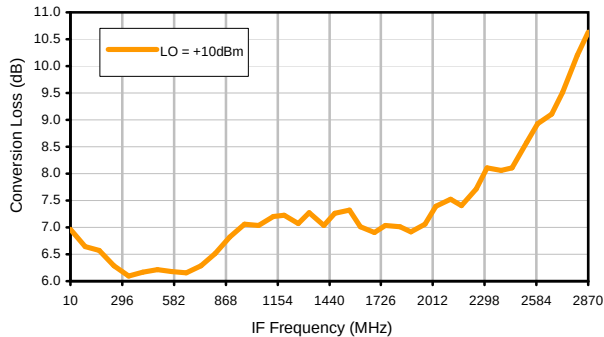
Conversion Loss vs. LO @ RF=4050MHz



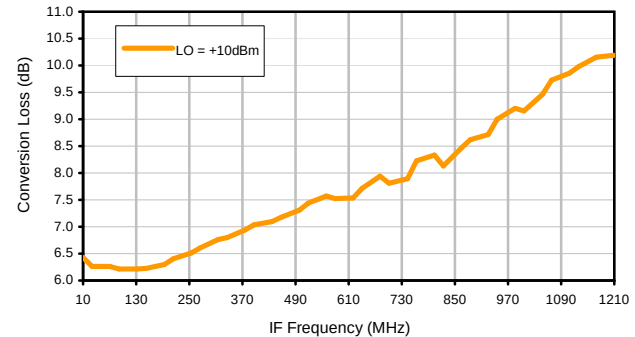
Conversion Loss vs. IF @ RF=4050MHz



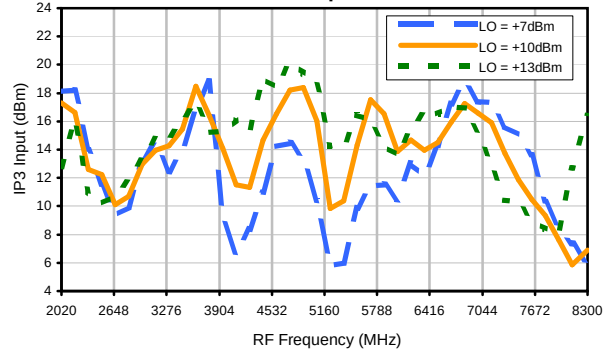
Conversion Loss vs. IF @ RF=2789.89MHz



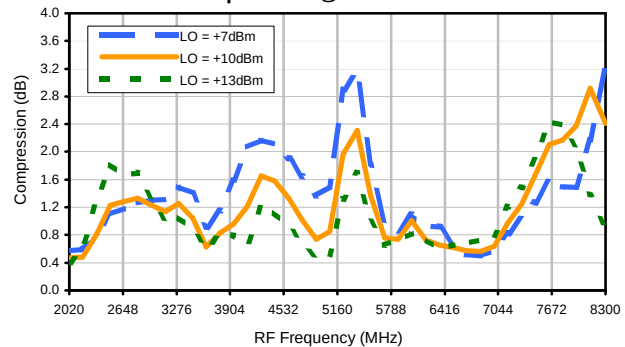
Conversion Loss vs. IF @ RF=5310.1MHz



IP3 Input

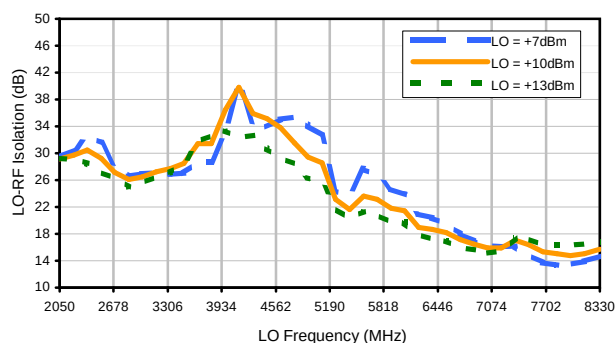


Compression @ RF IN=+5dBm

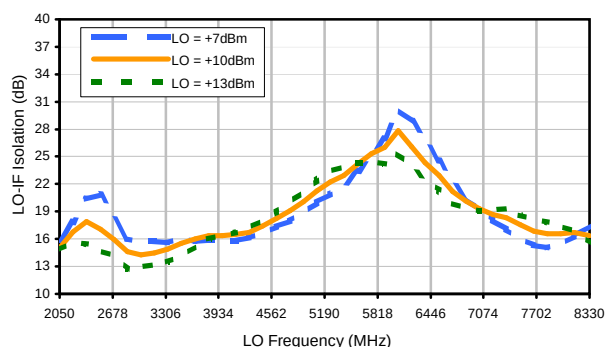


Typical Performance Curves

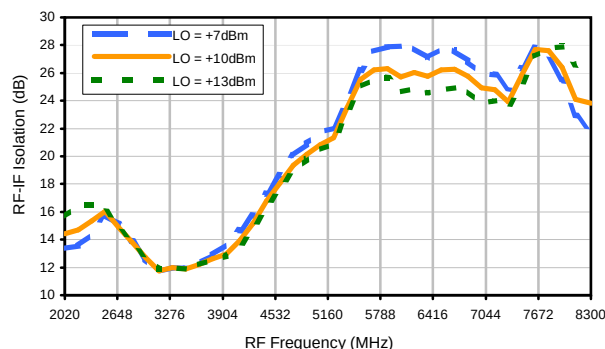
LO-RF Isolation



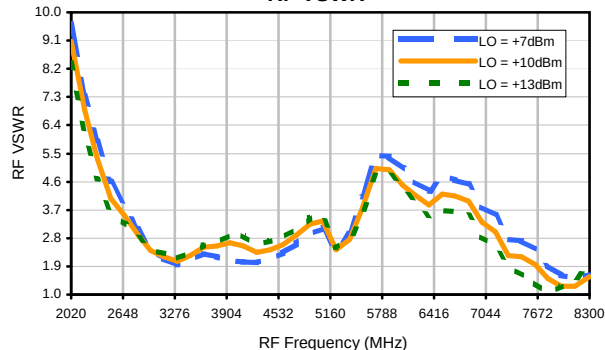
LO-IF Isolation



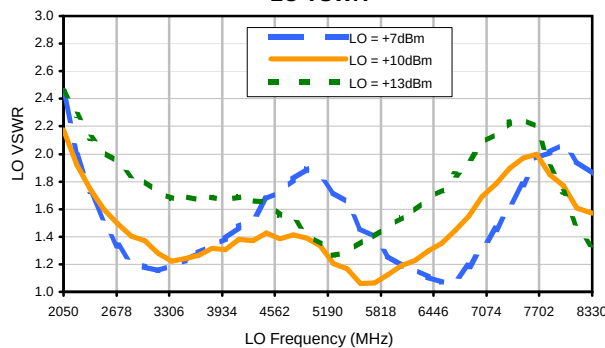
RF-IF Isolation



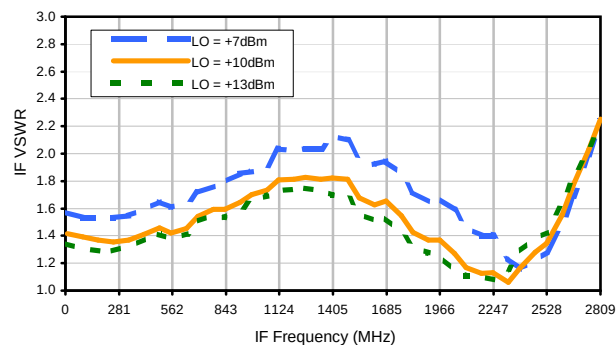
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+10	11	11	12	30	---	---	---	---	---
1	-	7	+0	28	33	34	41	46	---	---	---	---
2	85	66	47	43	54	59	57	54	68	---	---	---
3	>90	67	>74	65	56	67	68	70	62	>74	---	---
4	>90	>74	>74	>74	>74	60	>74	>74	>74	73	>74	---
5	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
6	---	---	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
7	---	---	---	>74	>74	>74	>74	>74	>74	>74	>74	>74
8	---	---	---	---	>74	>74	>74	>74	>74	>74	>74	>74
9	---	---	---	---	---	>74	>74	>74	>74	>74	>74	>74
10	---	---	---	---	---	---	>74	>74	>74	>74	>74	>74
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:

RF IN: 4050 MHz; -10.00 dBm.

LO IN: 4080 MHz; +10.00 dBm

IF OUT: 30 MHz; -16.37 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	21	19	24	39	---	---	---	---	---
1	-	7	+0	29	34	38	46	52	---	---	---	---
2	65	52	39	39	51	48	46	50	61	---	---	---
3	>90	61	67	50	51	52	56	55	51	65	---	---
4	>90	70	64	68	60	45	62	71	58	68	71	---
5	>90	>83	72	69	82	73	48	67	62	69	62	79
6	---	---	83	76	79	>83	72	52	75	74	69	72
7	---	---	---	>83	79	80	>83	>83	65	>83	76	77
8	---	---	---	---	>83	>83	>83	>83	78	65	83	>83
9	---	---	---	---	---	>83	>83	>83	>83	>83	74	>83
10	---	---	---	---	---	---	>83	>83	>83	>83	>83	70
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 4050 MHz; 0.00 dBm.

LO IN: 4080 MHz; +10.00 dBm

IF OUT: 30 MHz; -6.91 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. X3

SKY-53LHR+

101031

Page 3 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

