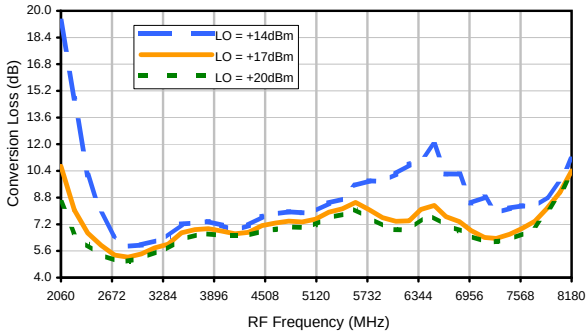
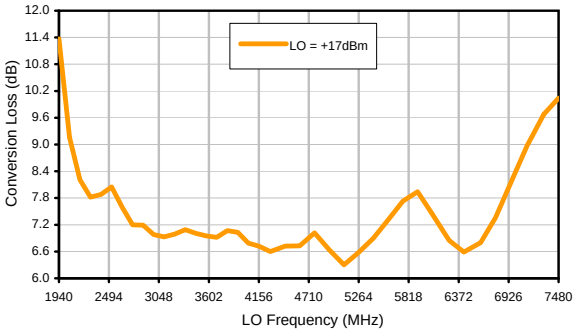
Frequency Mixer SKY-60H+

Typical Performance Curves

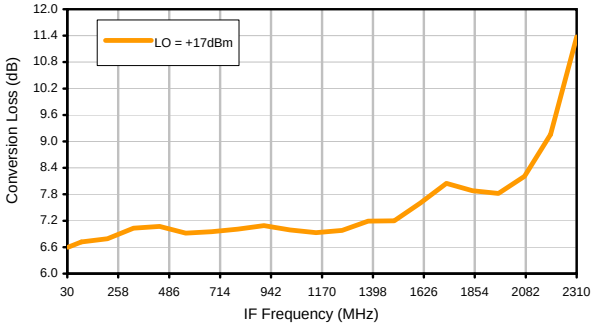
Conversion Loss @ IF=30MHz



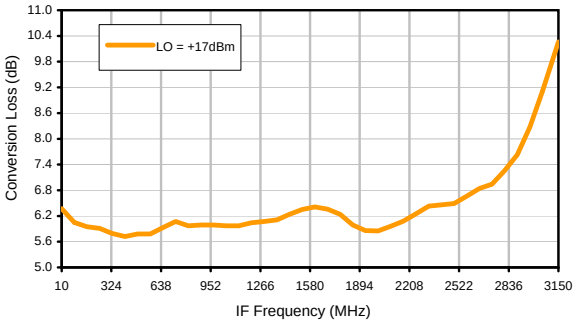
Conversion Loss vs. LO @ RF=4250MHz



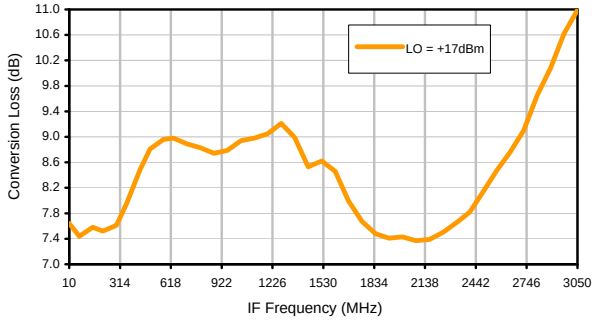
Conversion Loss vs. IF @ RF=4250MHz



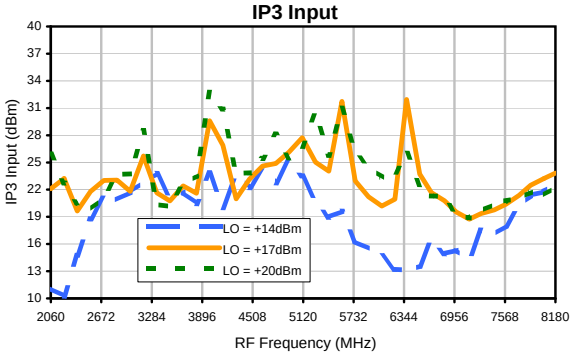
Conversion Loss vs. IF @ RF=2489.89MHz



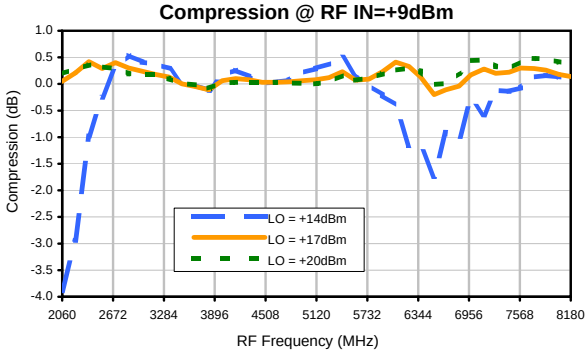
Conversion Loss vs. IF @ RF=6010.1MHz



IP3 Input

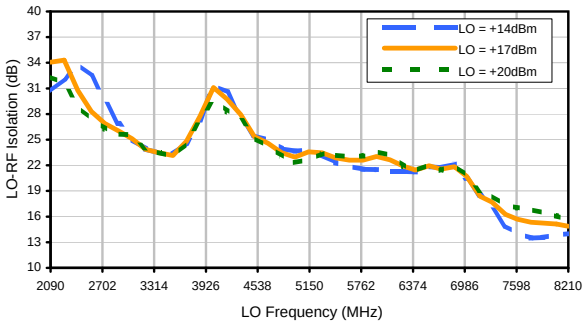


Compression @ RF IN=+9dBm

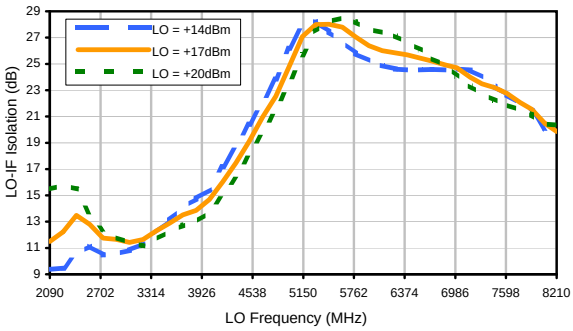


Typical Performance Curves

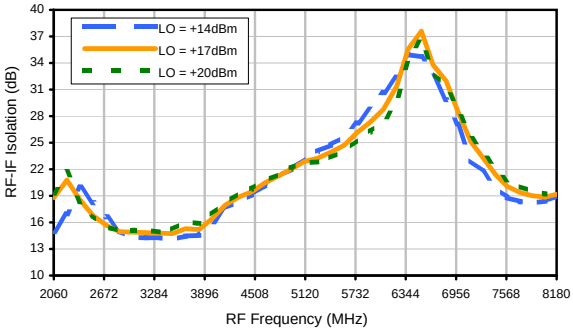
LO-RF Isolation



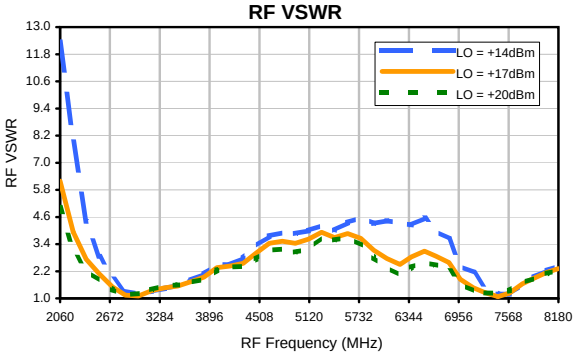
LO-IF Isolation



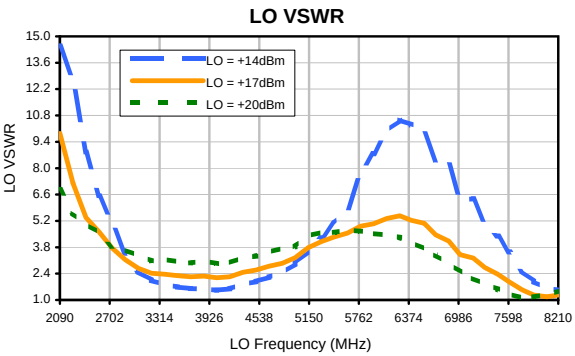
RF-IF Isolation



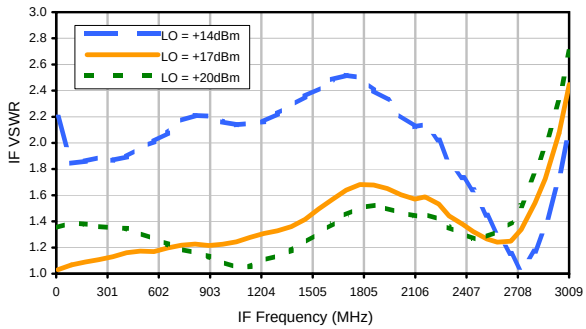
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer SKY-60H+

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+13	26	10	27	13	---	---	---	---	---
1	-	12	+0	32	33	23	34	43	---	---	---	---
2	79	53	73	49	61	59	67	48	57	---	---	---
3	>90	71	>77	>77	71	77	75	73	76	>77	---	---
4	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	---
5	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
6	---	---	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
7	---	---	---	>77	>77	>77	>77	>77	>77	>77	>77	>77
8	---	---	---	---	>77	>77	>77	>77	>77	>77	>77	>77
9	---	---	---	---	---	>77	>77	>77	>77	>77	>77	>77
10	---	---	---	---	---	---	>77	>77	>77	>77	>77	>77
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 4250 MHz; -6.00 dBm.
LO IN: 4280 MHz; +17.00 dBm
IF OUT: 30 MHz; -12.87 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+3	34	21	41	25	---	---	---	---	---
1	-	12	+0	33	33	25	35	45	---	---	---	---
2	59	43	63	39	51	51	57	40	48	---	---	---
3	81	51	62	58	53	58	56	53	59	74	---	---
4	>90	63	85	>87	75	70	67	72	70	60	66	---
5	>90	>87	>87	82	84	78	70	84	78	86	>87	79
6	---	---	>87	>87	>87	>87	>87	84	>87	>87	>87	82
7	---	---	---	>87	>87	>87	>87	>87	>87	>87	>87	>87
8	---	---	---	---	>87	>87	>87	>87	>87	>87	>87	>87
9	---	---	---	---	---	>87	>87	>87	>87	>87	>87	>87
10	---	---	---	---	---	---	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 4250 MHz; 4.00 dBm.
LO IN: 4280 MHz; +17.00 dBm
IF OUT: 30 MHz; -2.92 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.