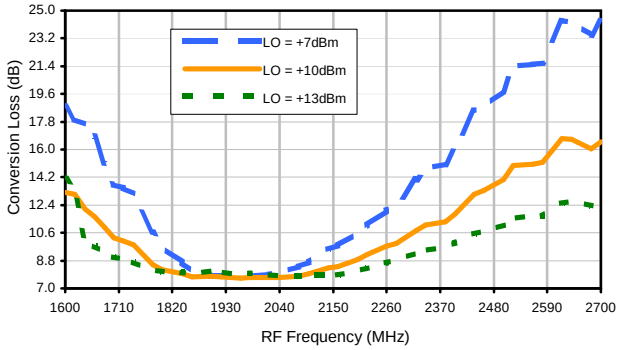
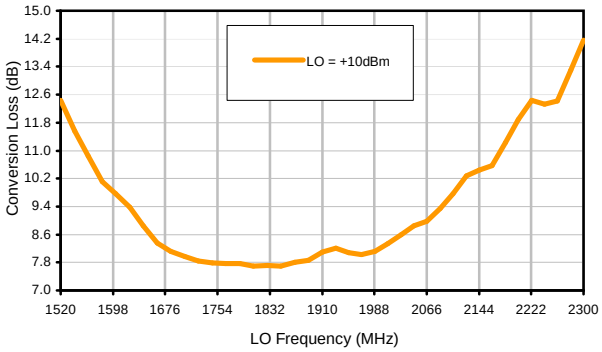
Frequency Mixer HJK-ED9777/1

Typical Performance Curves

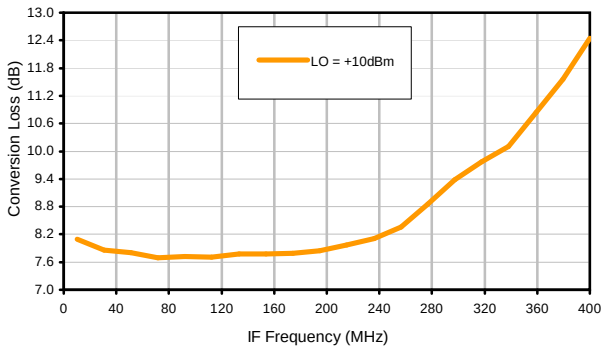
Conversion Loss @ IF=125MHz



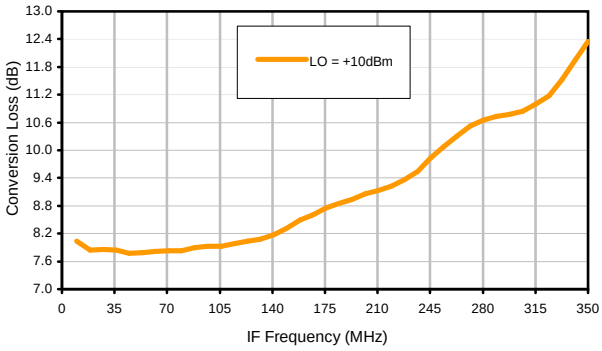
Conversion Loss vs. LO @ RF=1920.1MHz



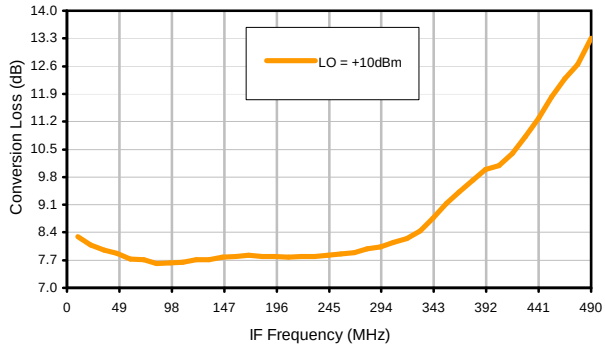
Conversion Loss vs. IF @ RF=1920.1MHz



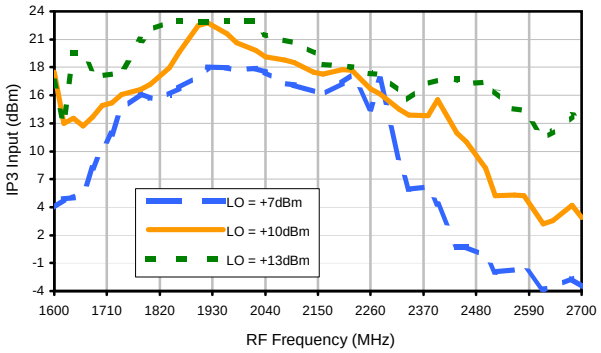
Conversion Loss vs. IF @ RF=1850.1MHz



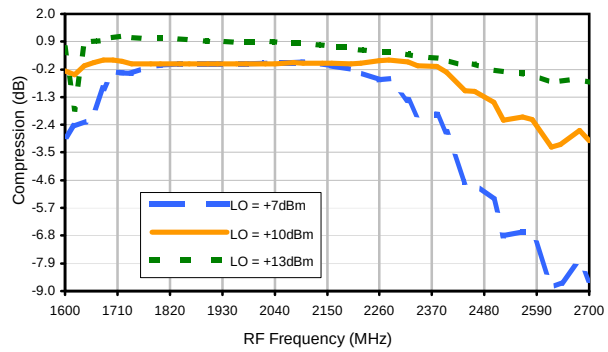
Conversion Loss vs. IF @ RF=1990.1MHz



IP3 Input

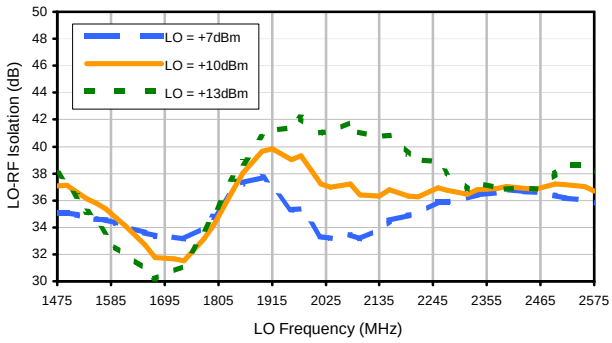


Compression @ RF IN=+3dBm

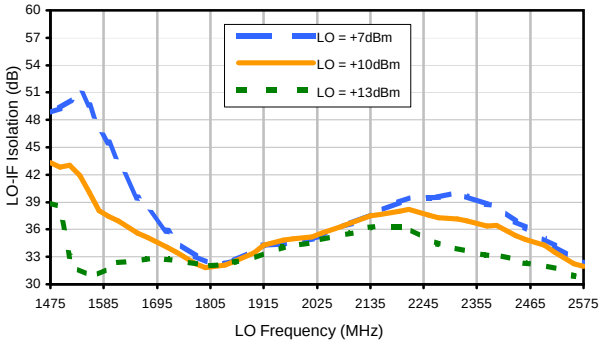


Typical Performance Curves

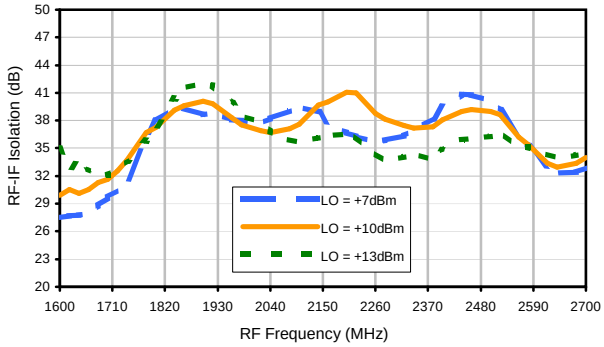
LO-RF Isolation



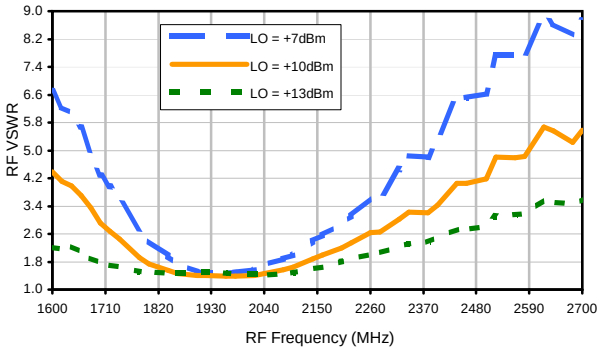
LO-IF Isolation



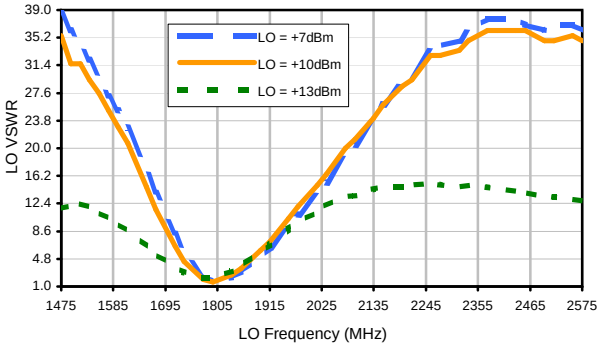
RF-IF Isolation



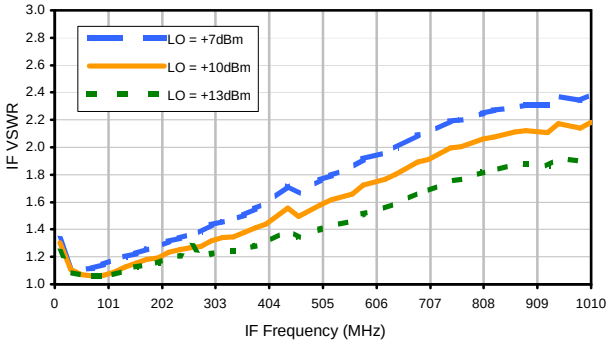
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	2	9	14	21	18	13	26	27	36	40
1	-	31	+0	28	17	46	21	40	34	46	47	54
2	84	58	52	>70	65	64	69	61	>70	>70	>70	>70
3	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:
RF IN: 1920 MHz; -12.00 dBm.
LO IN: 1795 MHz; +10.00 dBm
IF OUT: 125 MHz; -20.3 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	13	19	24	31	28	23	36	37	46	52
1	-	31	+0	28	17	46	21	40	34	46	47	54
2	64	48	42	62	55	54	59	51	67	61	62	67
3	>90	74	61	>80	59	79	62	>80	61	>80	73	78
4	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:
RF IN: 1920 MHz; -2.00 dBm.
LO IN: 1795 MHz; +10.00 dBm
IF OUT: 125 MHz; -10.28 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.