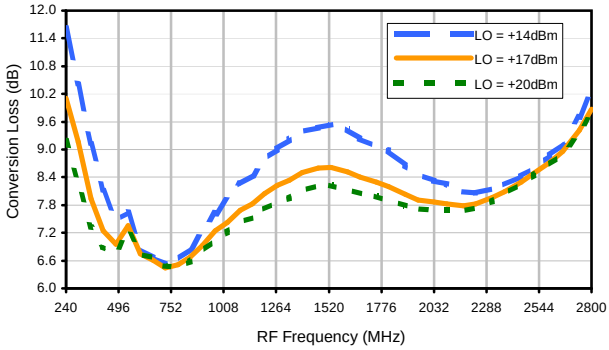
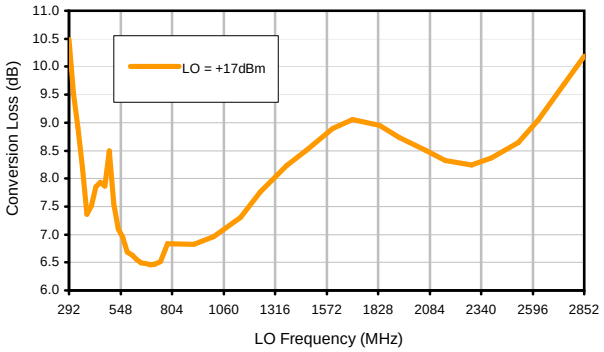
Frequency Mixer HJK-ED9560/1

Typical Performance Curves

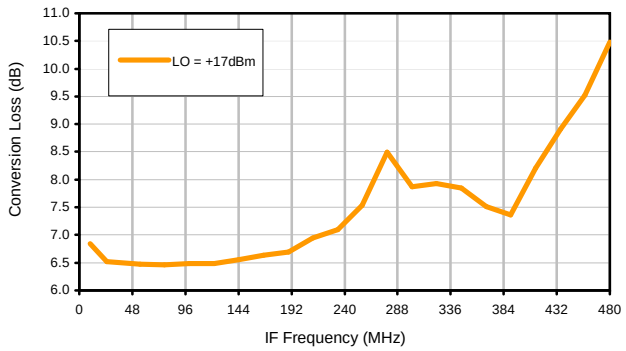
Conversion Loss @ IF=30MHz



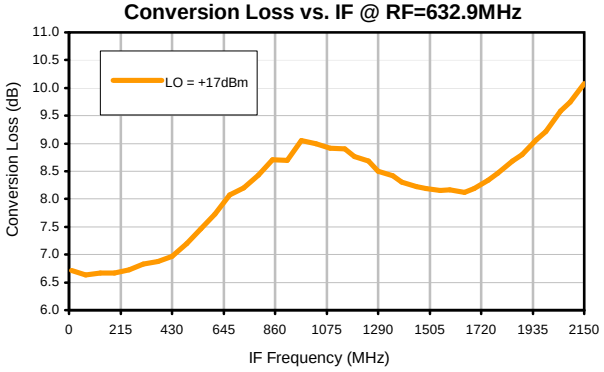
Conversion Loss vs. LO @ RF=772MHz



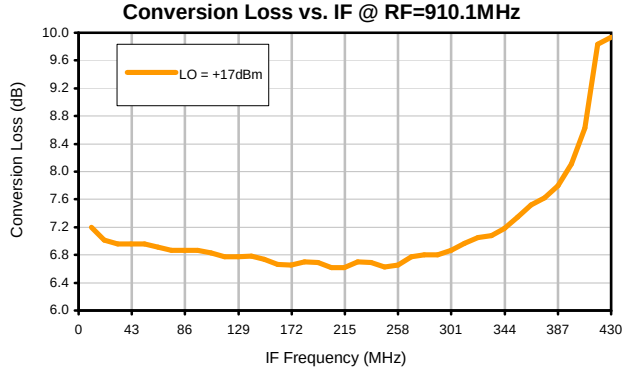
Conversion Loss vs. IF @ RF=772MHz



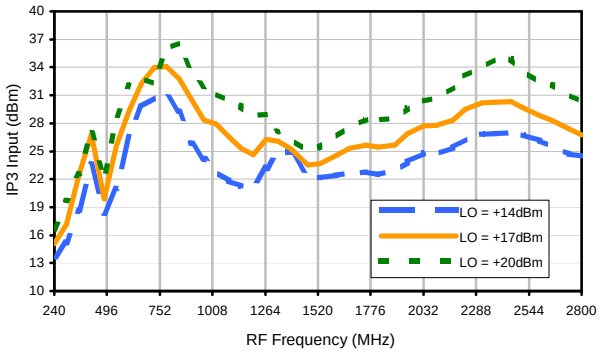
Conversion Loss vs. IF @ RF=632.9MHz



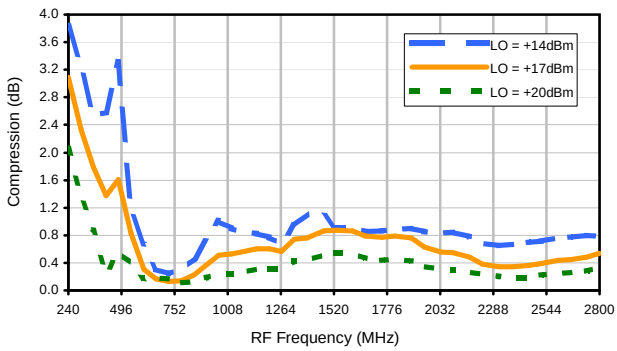
Conversion Loss vs. IF @ RF=910.1MHz



IP3 Input

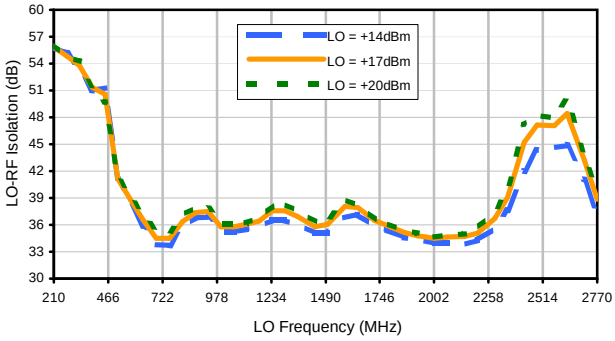


Compression @ RF IN=+17dBm

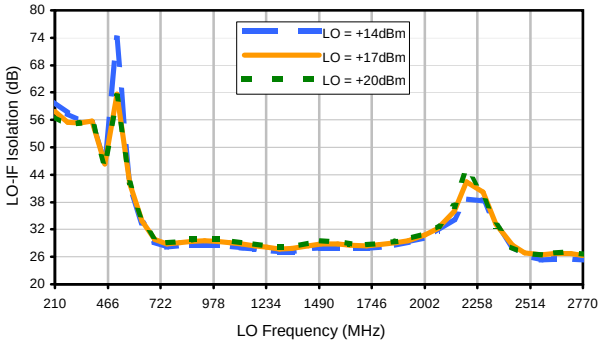


Typical Performance Curves

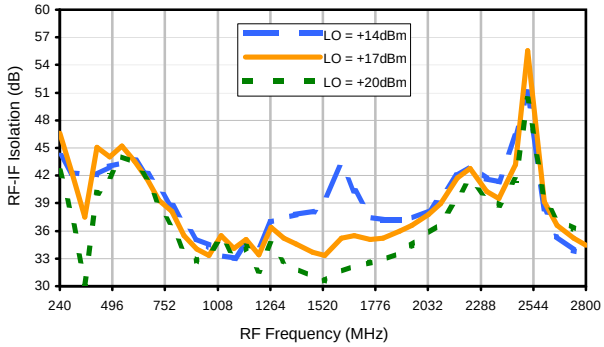
LO-RF Isolation



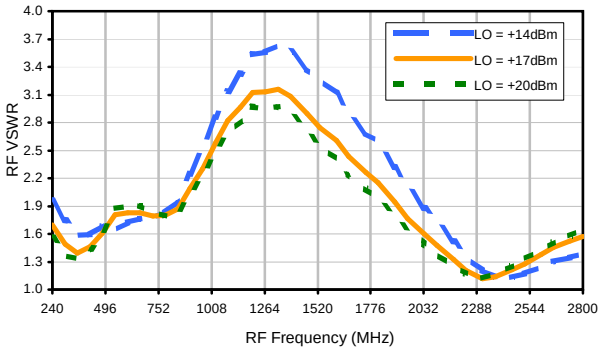
LO-IF Isolation



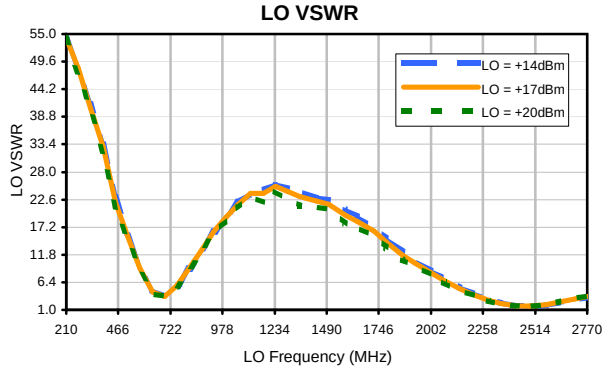
RF-IF Isolation



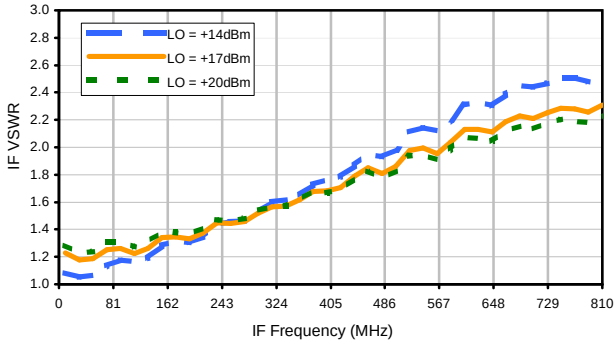
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer HJK-ED9560/1

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	3	8	17	20	29	46	45	46	34	48
1	-	32	+0	39	12	42	26	45	38	51	50	59
2	58	49	59	53	57	61	>80	63	70	70	73	77
3	89	>80	47	78	69	>80	70	>80	78	>80	>80	>80
4	>90	>80	>80	72	78	>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: 771.5 MHz; 2.00 dBm.
LO IN: 741.5 MHz; +17.00 dBm
IF OUT: 30 MHz; -9.67 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	18	24	37	35	42	56	53	57	48	62
1	-	33	+0	42	13	43	26	45	40	52	52	59
2	38	47	46	46	53	49	59	51	54	57	58	65
3	59	77	47	71	47	68	48	66	55	67	60	70
4	83	83	92	77	80	78	77	79	75	76	77	79
5	>90	93	78	89	71	90	74	95	79	89	79	85
6	>90	>95	>95	>95	92	86	91	86	>95	86	88	90
7	>90	>95	>95	>95	>95	93	87	94	88	>95	86	>95
8	>90	>95	>95	>95	>95	>95	93	90	>95	94	92	91
9	>90	>95	>95	>95	>95	>95	>95	91	91	>95	>95	91
10	>90	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 771.5 MHz; 12.00 dBm.
LO IN: 741.5 MHz; +17.00 dBm
IF OUT: 30 MHz; 4.86 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.