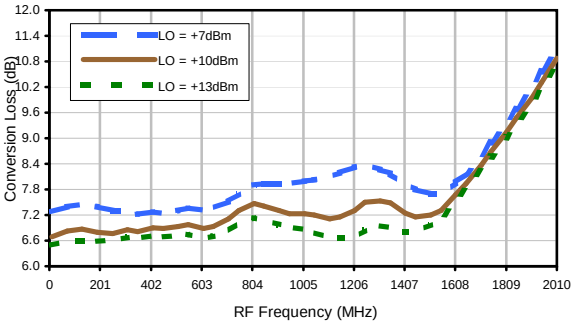
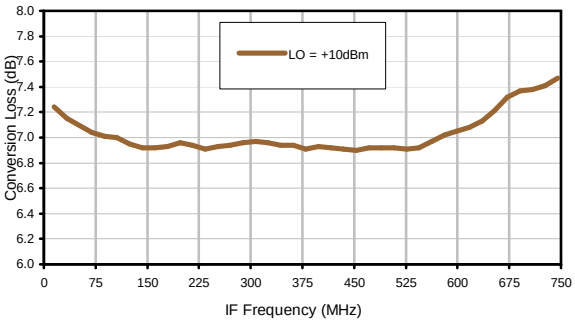
Frequency Mixer ADE-R5LH+

Typical Performance Curves

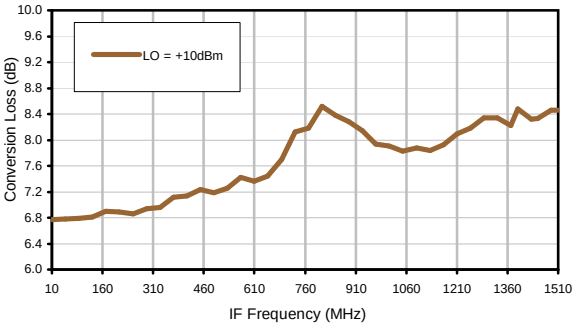
Conversion Loss @ IF=30MHz



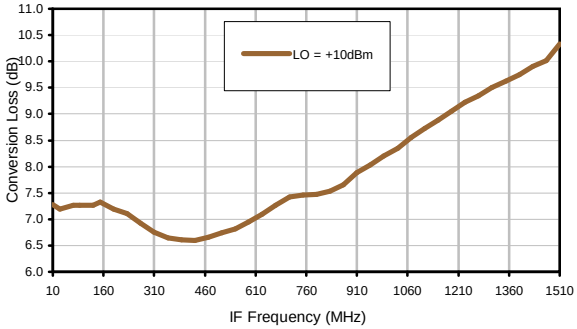
Conversion Loss vs. IF @ RF=765.1 MHz



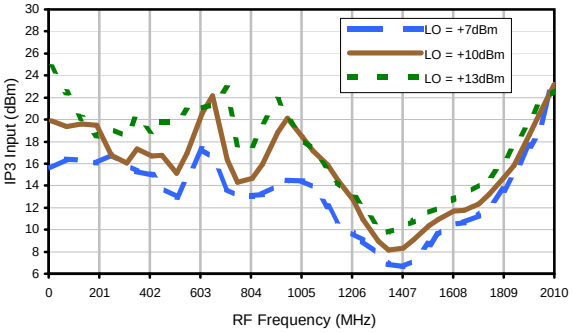
Conversion Loss vs. IF @ RF=10.1MHz



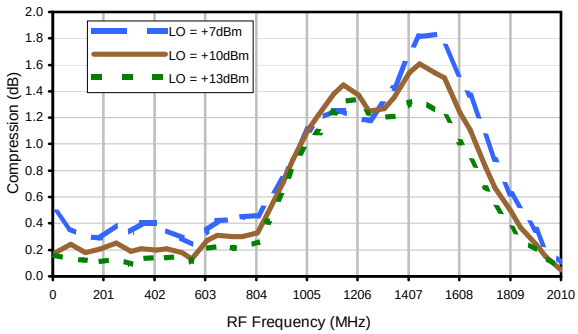
Conversion Loss vs. IF @ RF=1520.1MHz



IP3 Input

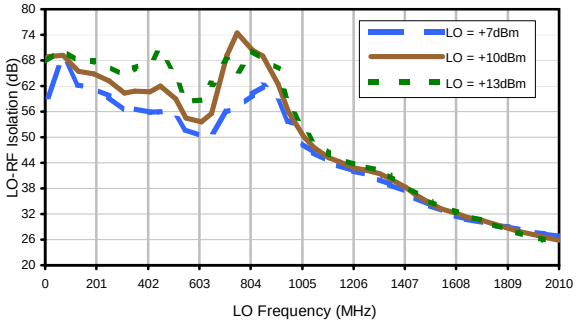


Compression @ RF IN=+5dBm

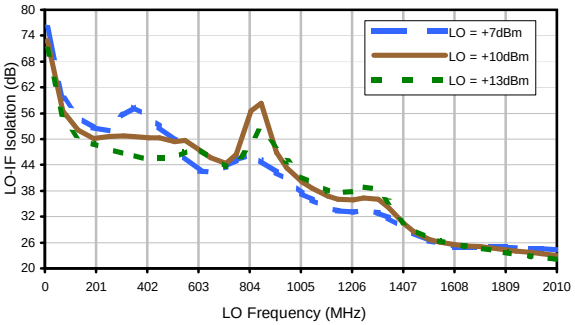


Typical Performance Curves

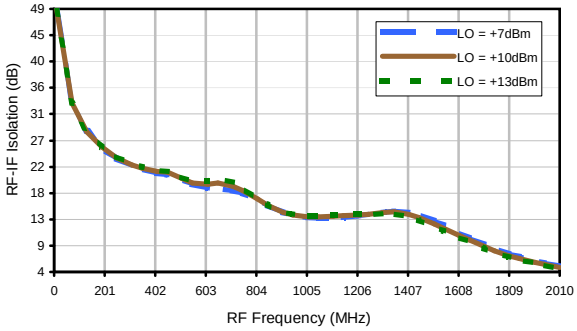
LO-RF Isolation



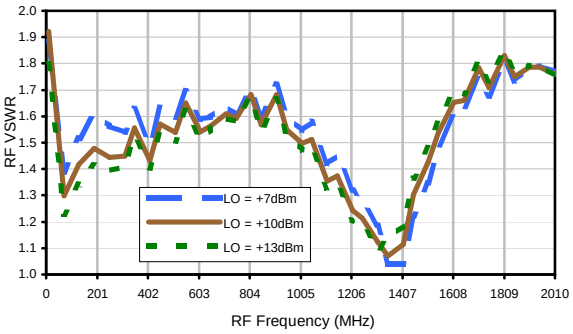
LO-IF Isolation



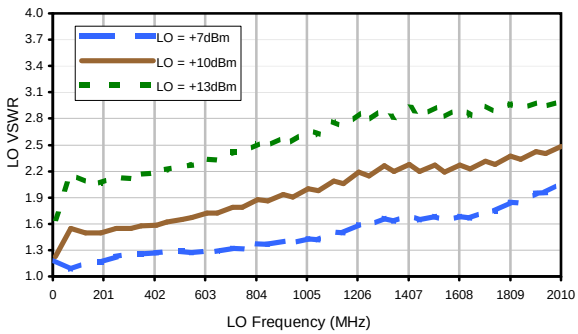
RF-IF Isolation



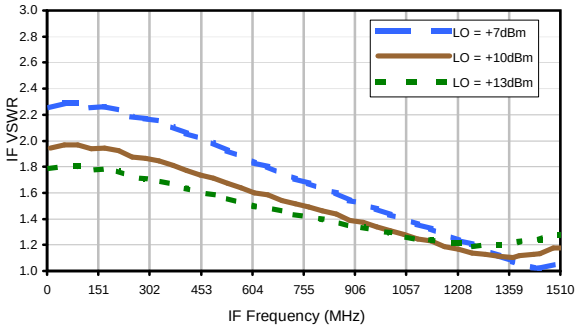
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer ADE-R5LH+

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	19	21	12	27	20	30	37	43	44	49
1	-	11	+0	28	14	33	39	36	46	37	50	52
2	81	67	60	61	57	61	> 73	> 73	61	64	68	> 73
3	> 90	65	58	61	57	64	56	71	> 73	> 73	> 73	> 73
4	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
5	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
6	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
7	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
8	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
9	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
10	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 755.00 MHz; -10.00 dBm.
LO IN: 785.00 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -17.48 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	28	30	22	38	31	42	53	55	54	63
1	-	11	+0	30	14	33	37	39	57	42	55	55
2	62	61	50	59	50	77	56	61	53	56	62	77
3	> 90	46	39	47	41	46	38	64	59	57	64	61
4	> 90	75	74	68	60	62	63	62	68	78	78	72
5	> 90	72	71	70	57	59	56	71	56	65	75	68
6	> 90	> 83	> 83	> 83	> 83	82	80	74	73	77	> 83	> 83
7	> 90	83	> 83	> 83	> 83	> 83	72	77	70	72	69	> 83
8	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83
9	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83
10	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 755.00 MHz; .00 dBm.
LO IN: 785.00 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -7.44 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.