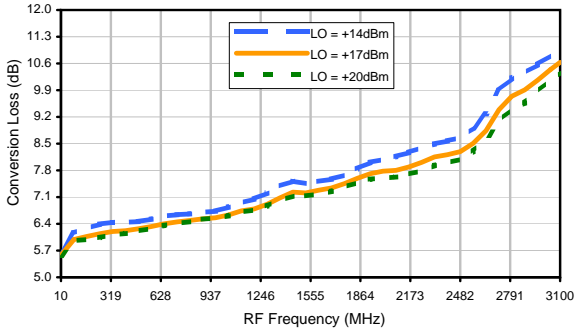


# Frequency Mixer

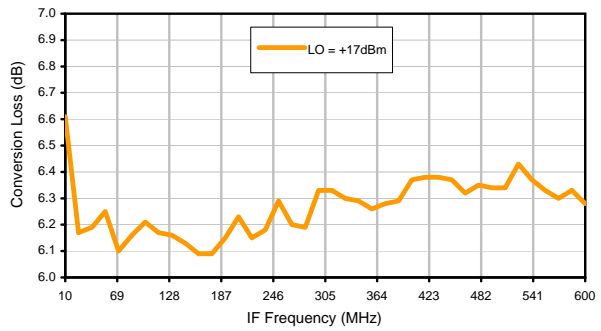
# SRA-173H+

## Typical Performance Curves

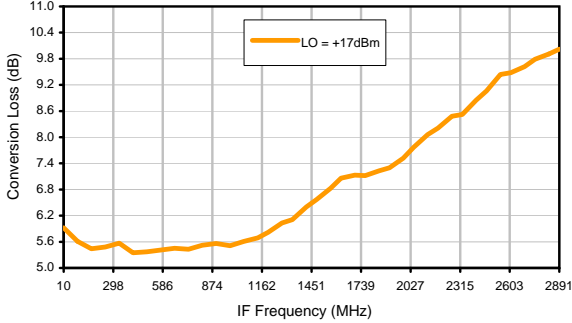
Conversion Loss @ IF=30MHz



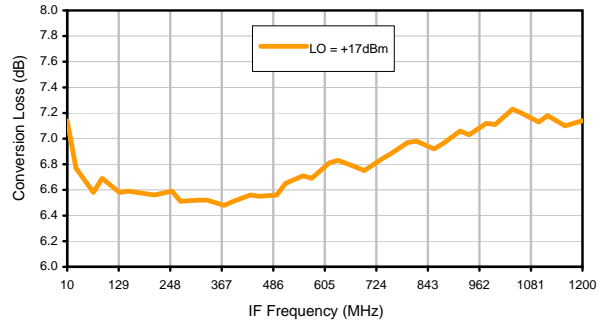
Conversion Loss vs. IF @ RF=610.1MHz



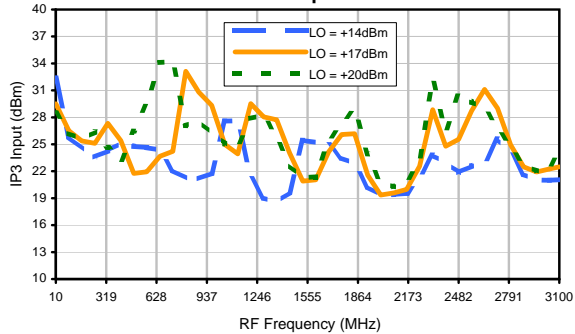
Conversion Loss vs. IF @ RF=10.1MHz



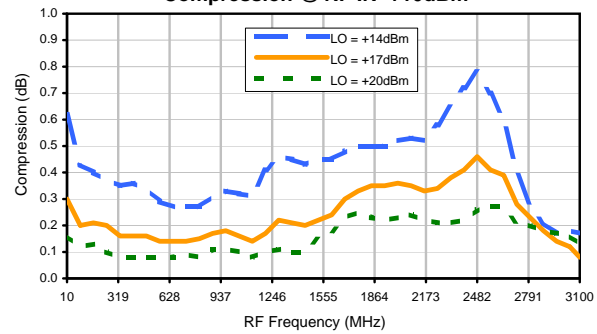
Conversion Loss vs. IF @ RF=1210.1MHz



IP3 Input



Compression @ RF IN=+10dBm

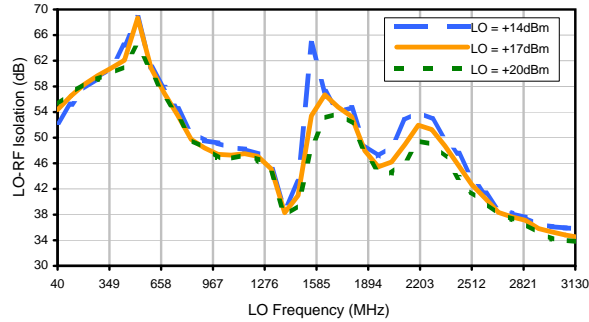


# Frequency Mixer

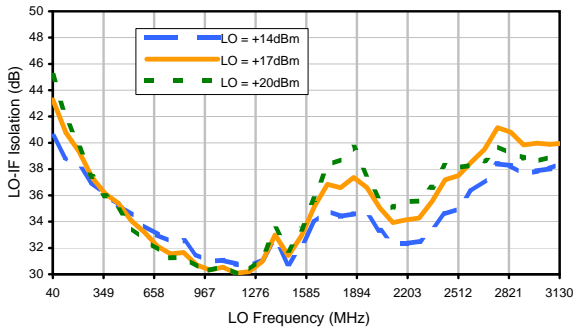
# SRA-173H+

## Typical Performance Curves

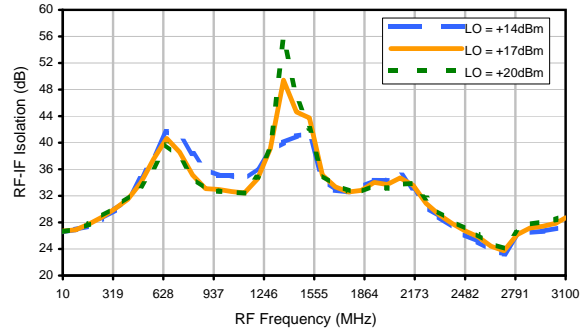
LO-RF Isolation



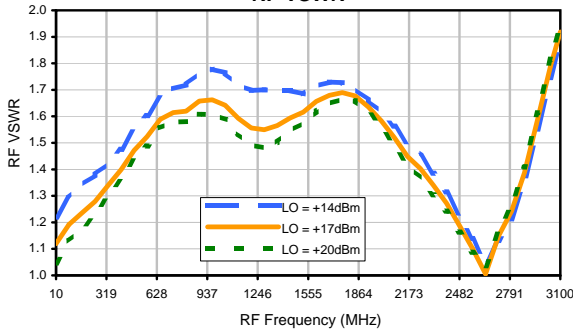
LO-IF Isolation



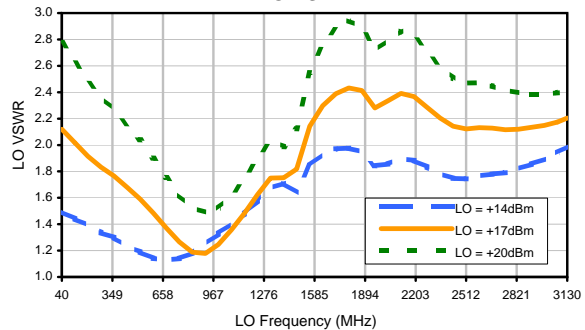
RF-IF Isolation



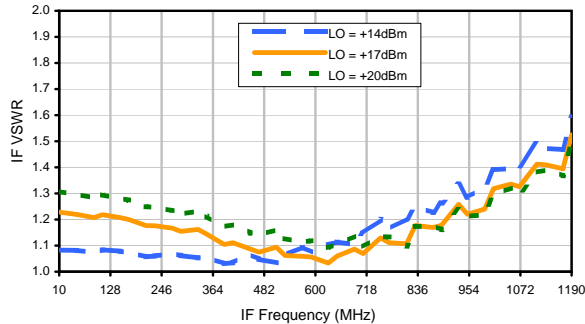
RF VSWR



LO VSWR



IF VSWR



# Frequency Mixer

## Harmonics Tables

# SRA-173H+

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
RF CAL	0	1	2	3	4	5	6	7	8	9	10	
0	-	-	4	29	16	34	17	39	23	40	28	35
1	-	34	+0	35	11	38	21	37	25	41	35	48
2	72	>79	73	67	70	62	56	67	52	74	56	74
3	>90	>79	64	>79	65	76	63	>79	66	>79	77	>79
4	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
5	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
6	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79

Test conditions: RF IN: 600 MHz; -5.00 dBm.  
 LO IN: 630 MHz; +17.00 dBm  
 IF OUT: 30 MHz; -11.38 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
RF CAL	0	1	2	3	4	5	6	7	8	9	10	
0	-	-	14	39	27	46	31	47	36	49	40	47
1	-	34	+0	34	11	38	22	39	26	44	36	58
2	52	65	54	63	51	54	45	60	42	63	48	68
3	85	66	53	63	51	76	45	65	47	57	57	57
4	>90	79	64	74	67	73	65	67	68	69	62	78
5	>90	80	65	80	60	76	64	77	61	81	67	84
6	>90	85	74	>89	71	87	76	80	76	79	73	>89
7	>90	88	82	>89	84	82	75	80	72	81	71	>89
8	>90	>89	88	>89	84	>89	77	>89	78	>89	77	>89
9	>90	>89	>89	>89	>89	>89	86	>89	86	>89	85	>89
10	>90	>89	>89	>89	>89	>89	>89	>89	85	>89	85	>89

### LO HARMONICS ORDER

Test conditions: RF IN: 600 MHz; 5.00 dBm.  
 LO IN: 630 MHz; +17.00 dBm  
 IF OUT: 30 MHz; -1.47 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.