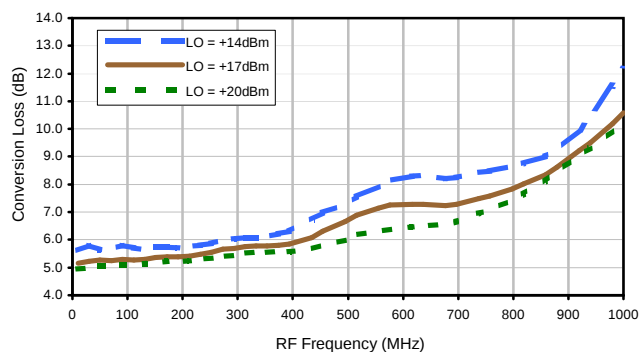


Frequency Mixer

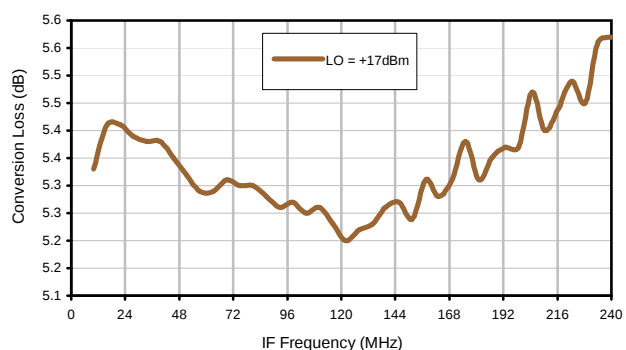
ADE-ED7695/1

Typical Performance Curves

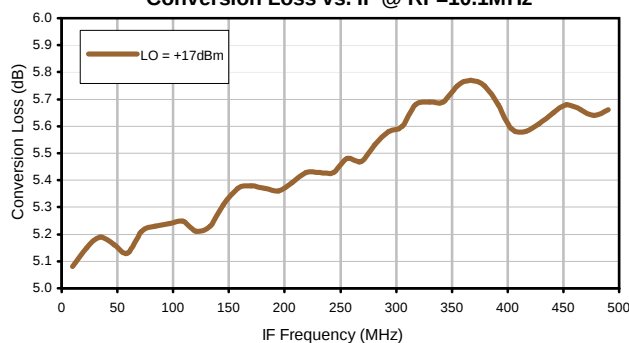
Conversion Loss @ IF=30MHz



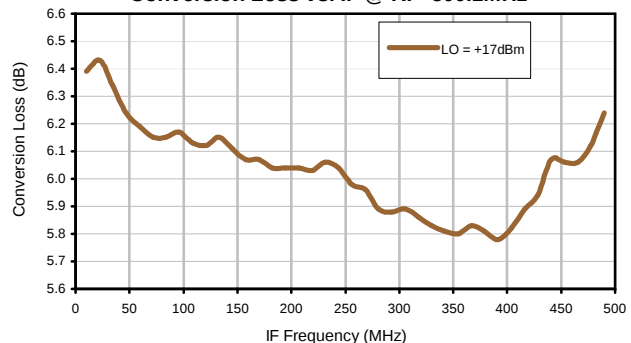
Conversion Loss vs. IF @ RF=250.1MHz



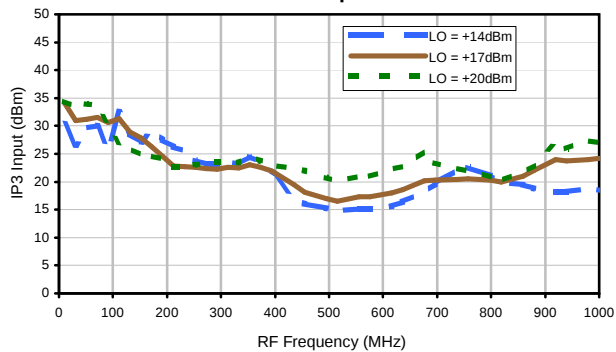
Conversion Loss vs. IF @ RF=10.1MHz



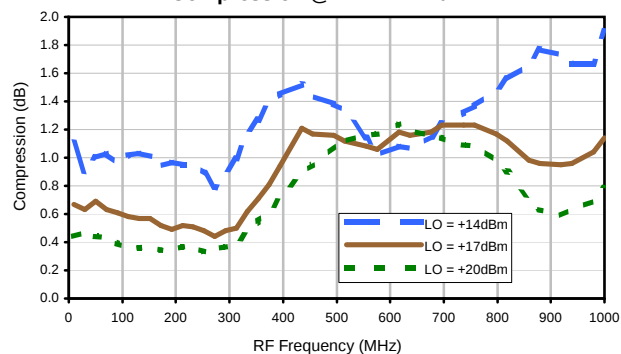
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input

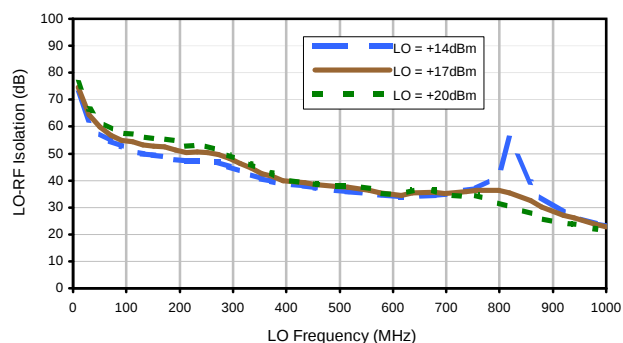


Compression @ RF IN=+14dBm

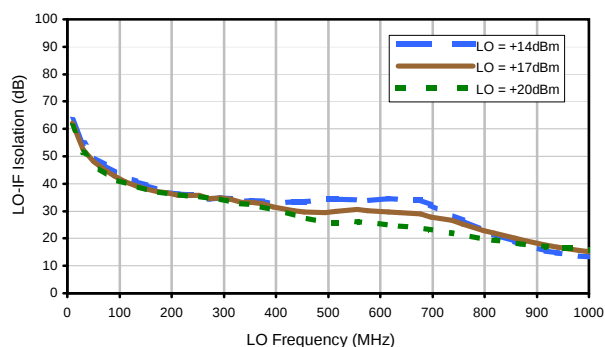


Typical Performance Curves

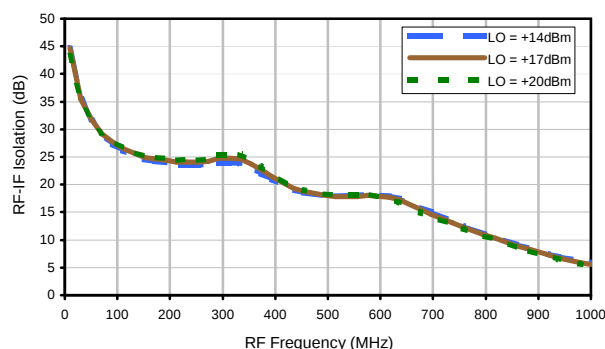
LO-RF Isolation



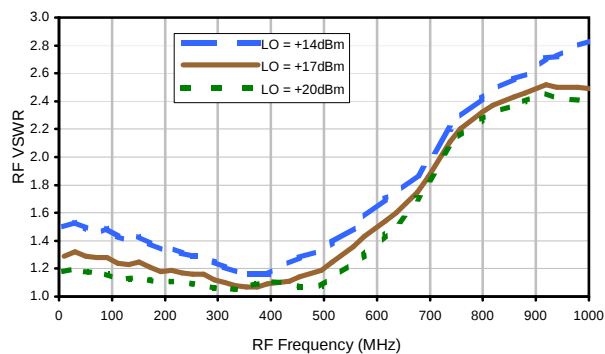
LO-IF Isolation



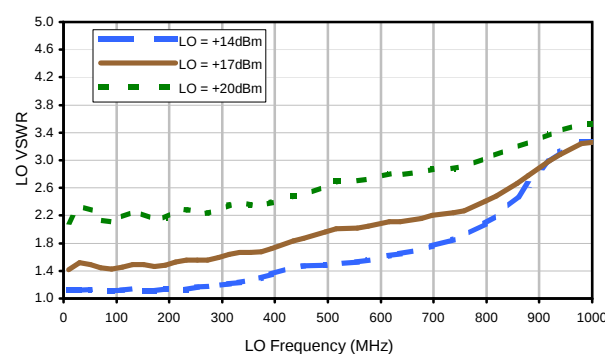
RF-IF Isolation



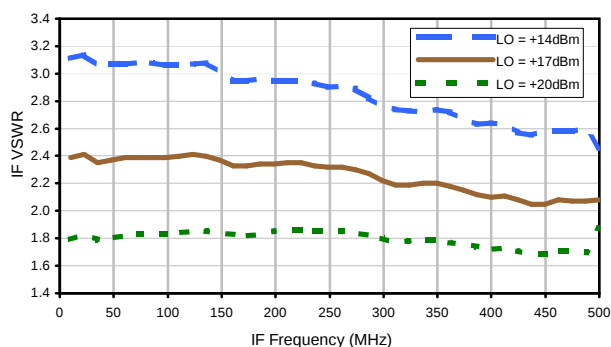
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	39	14	33	16	34	24	49	38	53
1	-	18	0	27	13	29	26	34	34	51	32	45
2	98	67	49	66	49	67	45	65	52	63	56	73
3	>100	64	53	69	52	66	48	84	53	80	56	68
4	>100	86	75	80	72	75	67	76	66	79	76	83
5	>100	92	86	84	80	80	75	79	72	80	79	86
6	>100	>93	91	>93	85	93	83	93	87	91	89	>93
7	>100	>93	>93	>93	>93	>93	>93	86	91	>93	>93	>93
8	>100	>93	>93	>93	>93	>93	>93	>93	81	>93	>93	>93
9	>100	>93	>93	>93	>93	>93	>93	>93	93	77	>93	>93
10	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	80	90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.10 MHz; -1.00 dBm.
LO IN: 280.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -6.92 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	50	26	45	30	47	39	68	47	73
1	-	19	0	28	13	34	25	38	39	52	44	62
2	79	61	41	58	43	59	40	56	44	57	49	65
3	>100	44	40	48	46	51	39	45	55	51	47	63
4	>100	73	64	72	65	70	61	82	57	69	63	66
5	>100	83	59	64	50	70	47	57	45	62	54	69
6	>100	78	77	83	68	87	72	74	65	74	63	75
7	>100	78	76	76	61	72	62	76	61	67	58	69
8	>100	88	80	101	82	83	71	85	69	77	69	80
9	>100	94	92	102	82	86	70	77	68	76	67	73
10	>100	99	102	101	95	103	90	84	78	84	78	81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; 9.00 dBm.
LO IN: 280.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 3.12 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.