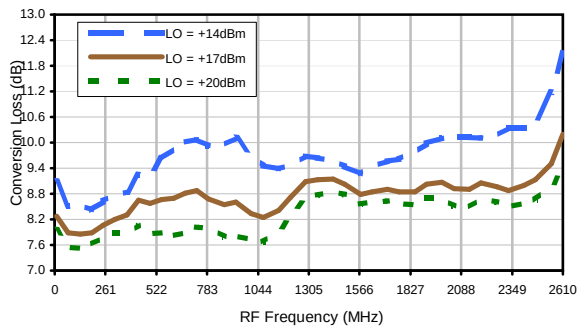


Frequency Mixer

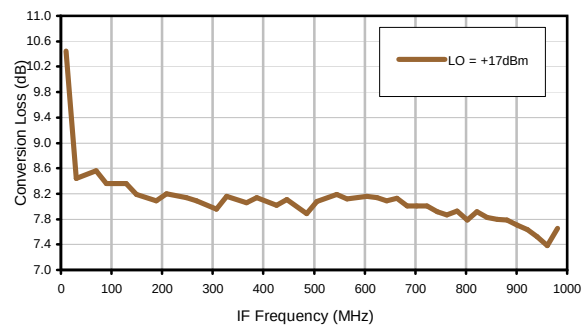
ADE-ED7490/1

Typical Performance Curves

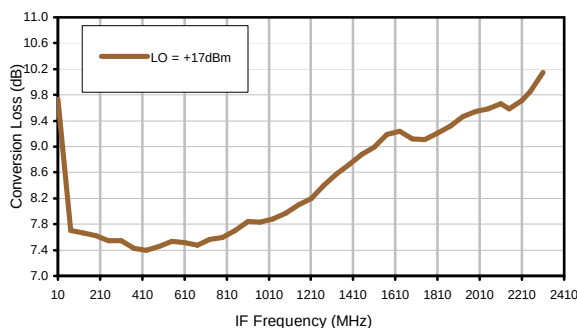
Conversion Loss @ IF=30MHz



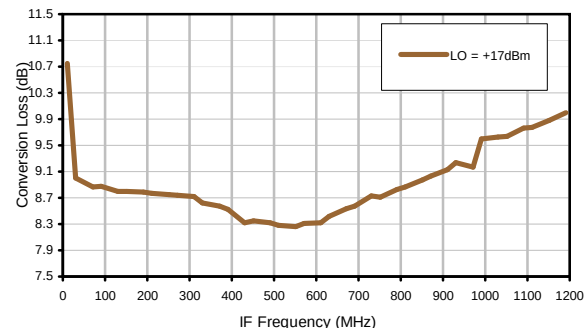
Conversion Loss vs. IF @ RF=995.5MHz



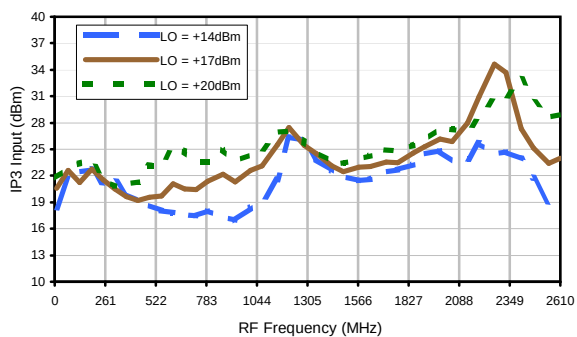
Conversion Loss vs. IF @ RF=69.9MHz



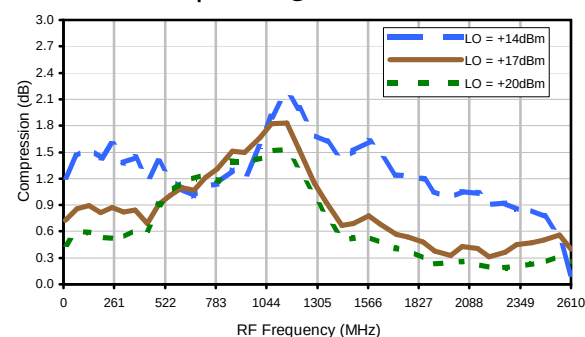
Conversion Loss vs. IF @ RF=1971MHz



IP3 Input

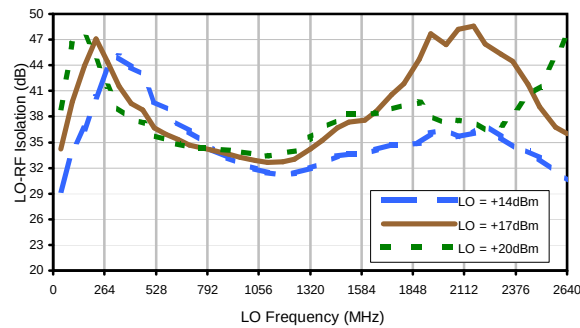


Compression @ RF IN=+15dBm

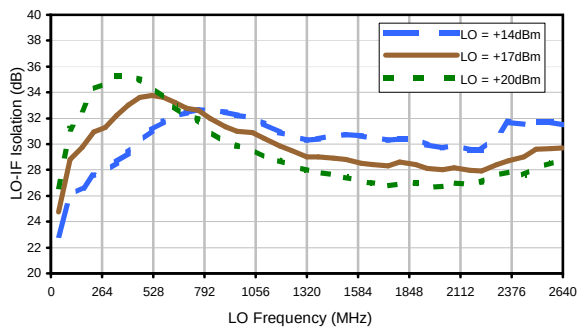


Typical Performance Curves

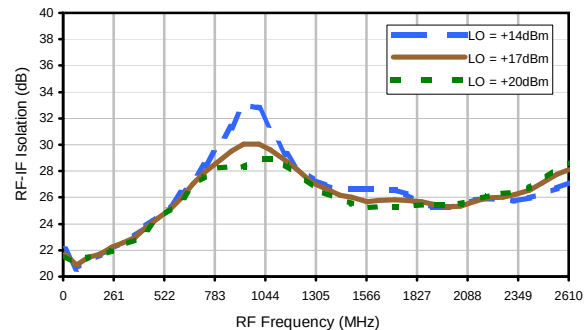
LO-RF Isolation



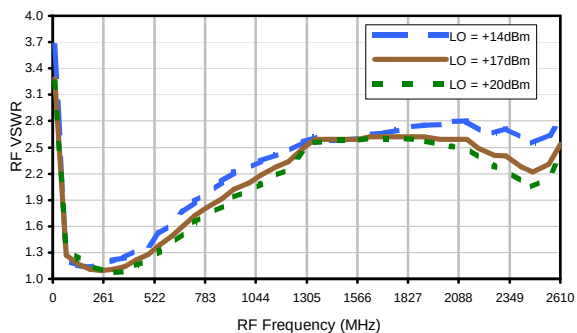
LO-IF Isolation



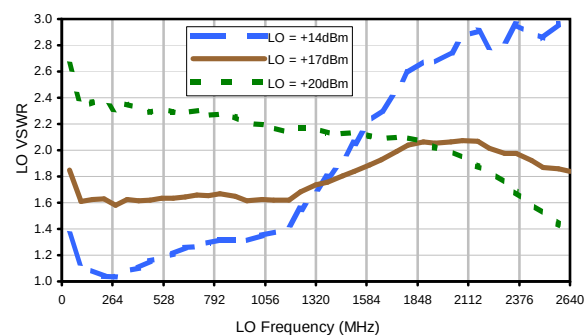
RF-IF Isolation



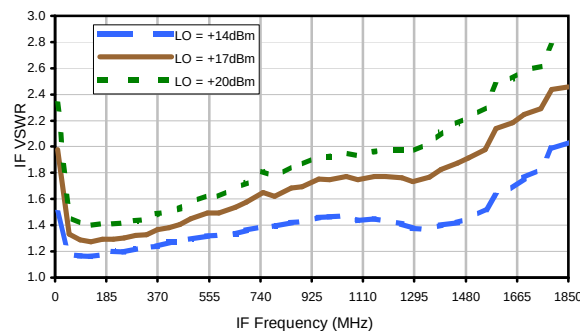
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	6	27	23	25	18	35	32	45	32	52
1	-	22	+0	37	14	42	27	43	38	45	44	44
2	58	64	53	72	51	60	47	51	47	62	54	62
3	>90	60	52	59	49	63	52	68	58	68	65	69
4	>90	>81	80	>81	77	>81	71	>81	67	70	75	80
5	>90	>81	79	>81	77	79	75	79	80	81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
RF CAL 0 1 2 3 4 5 6 7 8 9 10												

LO HARMONICS ORDER

Test conditions: RF IN: 1025 MHz; 0.00 dBm.
LO IN: 1055 MHz; +17.00 dBm
IF OUT: 30 MHz; -8.5 dBm

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	16	41	32	34	32	48	49	67	50	63
1	-	21	+0	33	16	42	32	52	44	88	55	55
2	38	57	41	55	47	52	45	50	41	65	61	70
3	66	45	33	40	37	48	46	52	38	69	55	71
4	90	58	59	59	51	62	50	67	55	57	56	68
5	>90	60	45	57	54	61	48	57	46	59	55	61
6	>90	75	67	63	68	72	58	66	55	66	58	61
7	>90	82	67	59	57	68	57	61	56	69	58	63
8	>90	>91	79	82	72	68	73	70	66	71	68	77
9	>90	82	82	>91	82	76	72	72	71	91	72	71
10	>90	81	79	86	85	88	74	78	77	88	71	85
RF CAL 0 1 2 3 4 5 6 7 8 9 10												

LO HARMONICS ORDER

Test conditions: RF IN: 1025 MHz; 10.00 dBm.
LO IN: 1055 MHz; +17.00 dBm
IF OUT: 30 MHz; 1.44 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.