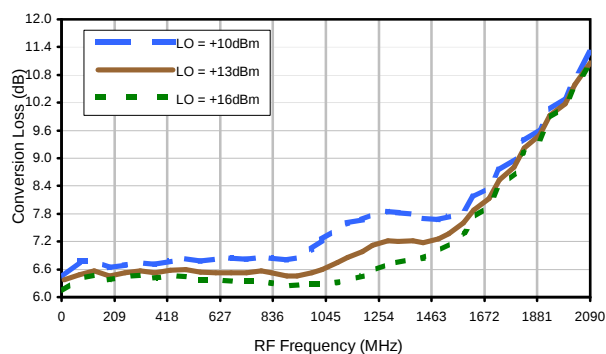


Frequency Mixer

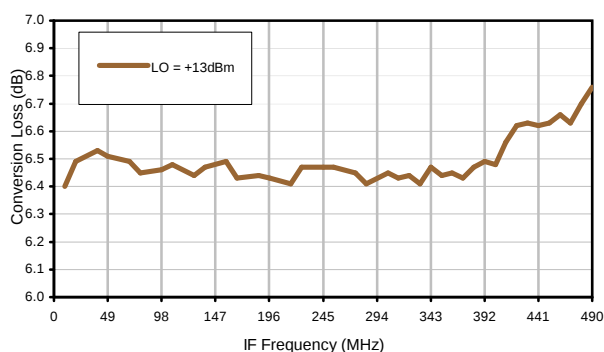
ADE-ED12761/1

Typical Performance Curves

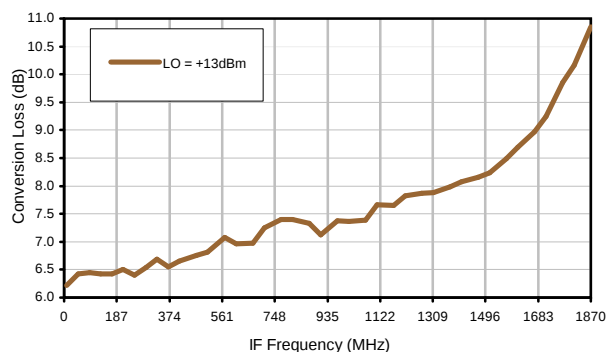
Conversion Loss @ IF=45MHz



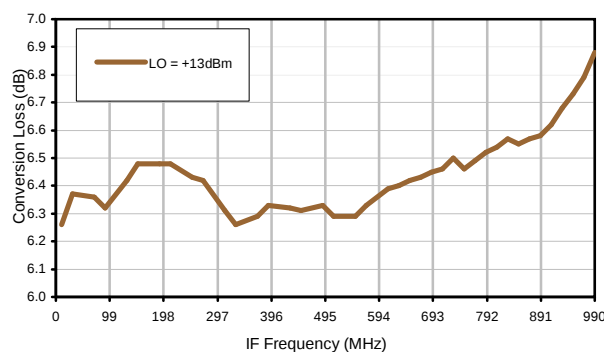
Conversion Loss vs. IF @ RF=500.1MHz



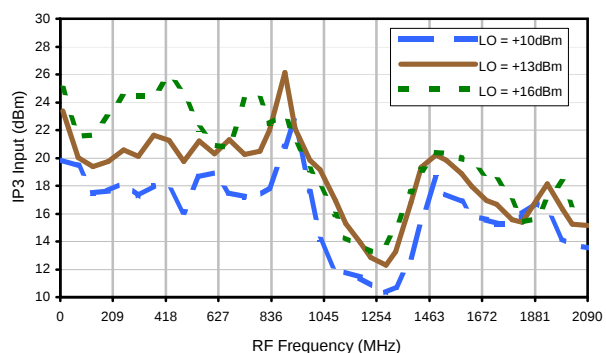
Conversion Loss vs. IF @ RF=10MHz



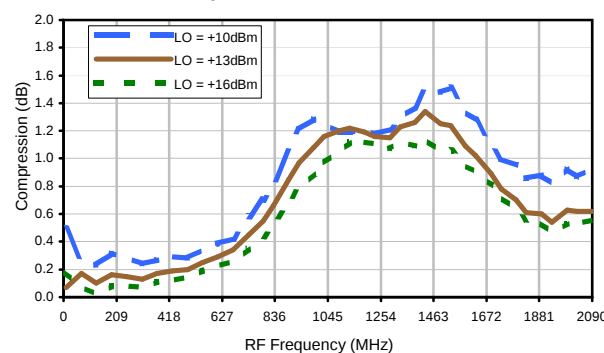
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

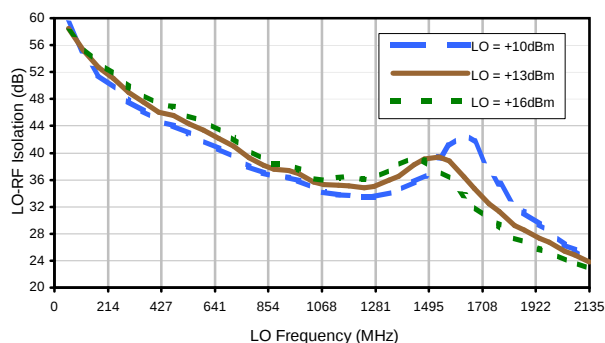


Compression @ RF IN=+5dBm

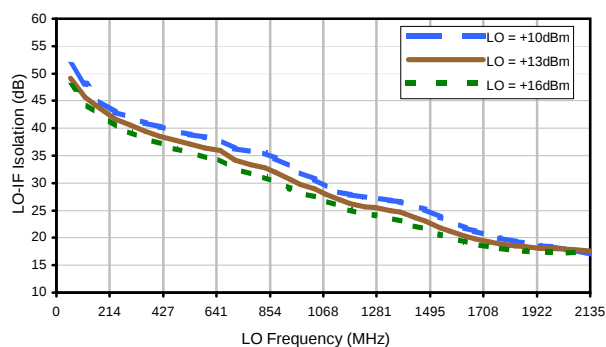


Typical Performance Curves

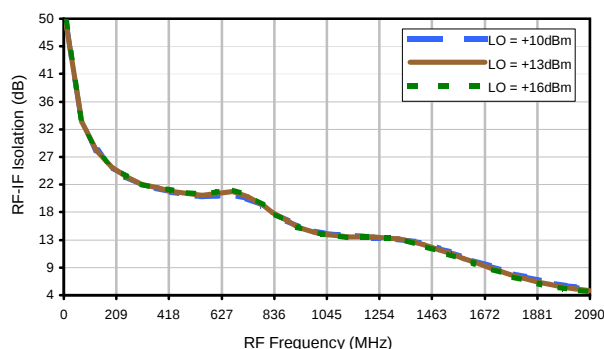
LO-RF Isolation



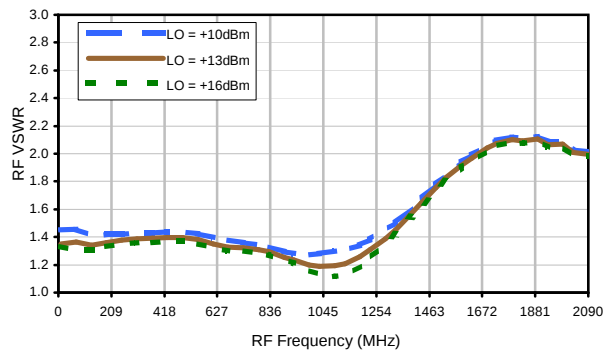
LO-IF Isolation



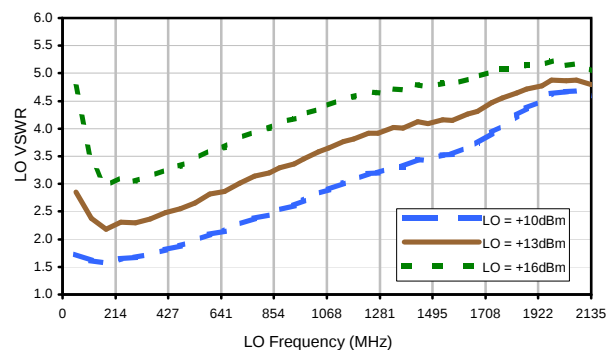
RF-IF Isolation



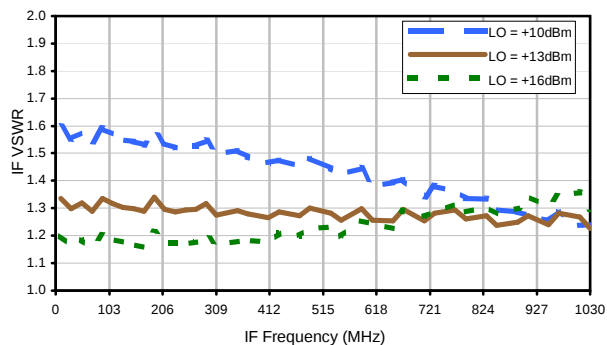
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	22	12	35	25	35	19	38	38	51
1	-	14	+0	28	13	43	25	38	46	45	51	46
2	84	73	49	83	50	66	51	70	65	71	59	69
3	>100	74	74	73	65	72	62	80	73	>84	>84	>84
4	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
5	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>100	>84	>84	>84	>84	>84	81	>84	80	>84	>84	>84
8	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 550 MHz; -10.00 dBm.
LO IN: 595 MHz; +13.00 dBm
IF OUT: 45 MHz; -16.42 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	33	24	44	36	46	30	50	51	61
1	-	15	+0	27	13	43	26	41	45	49	62	51
2	64	59	39	68	40	58	42	64	54	63	51	66
3	97	57	54	58	48	57	43	62	70	58	68	61
4	>100	82	71	70	67	70	72	70	65	77	75	74
5	>100	71	70	66	60	66	61	67	59	65	68	73
6	>100	>94	89	90	73	81	71	81	70	91	70	84
7	>100	>94	>94	88	79	81	74	84	77	80	76	91
8	>100	>94	>94	>94	>94	>94	>94	>94	>94	92	90	>94
9	>100	>94	>94	>94	>94	>94	93	>94	>94	93	92	>94
10	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 550 MHz; 0.00 dBm.
LO IN: 595 MHz; +13.00 dBm
IF OUT: 45 MHz; -6.43 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.