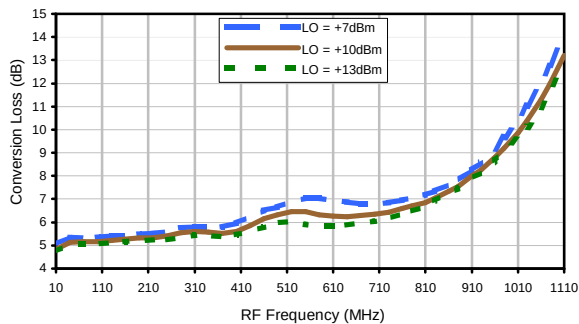


Frequency Mixer

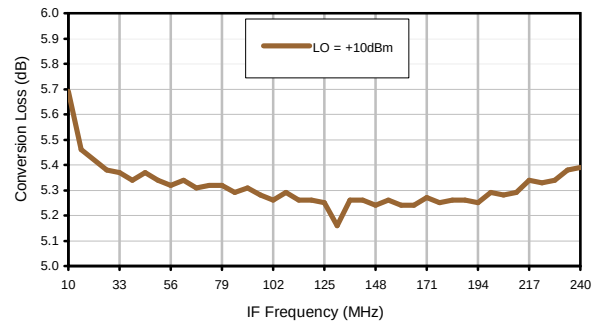
ADE-R1LH+

Typical Performance Curves

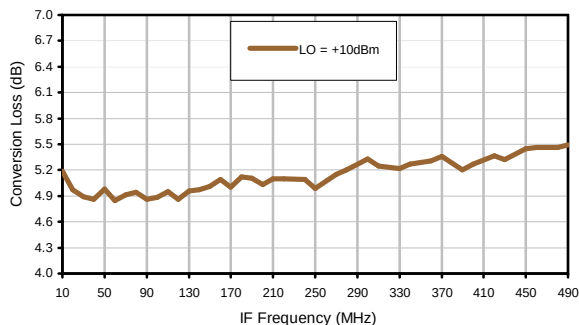
Conversion Loss @ IF=30 MHz



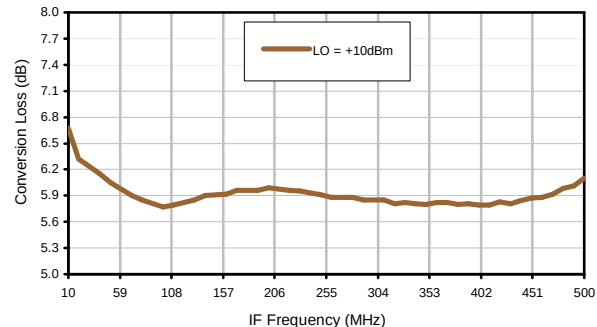
Conversion Loss vs. IF @ RF=261.1 MHz



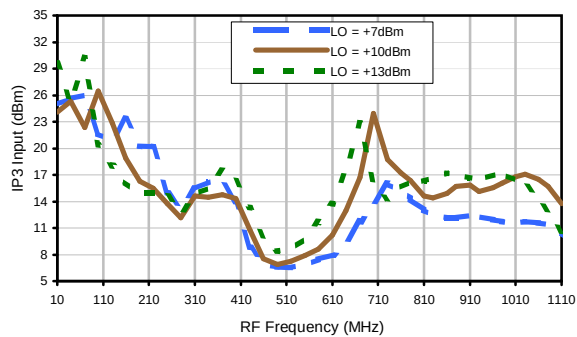
Conversion Loss vs. IF @ RF=10.1 MHz



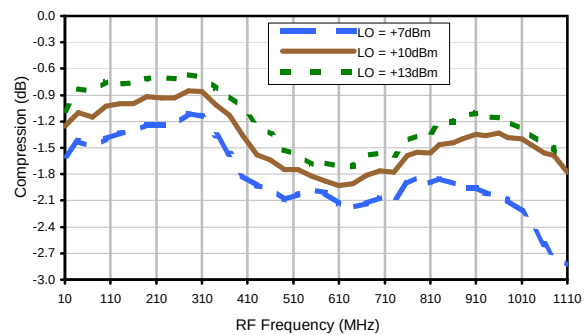
Conversion Loss vs. IF @ RF=510.1 MHz



IP3 Input



Compression @ RF IN = +5 dBm



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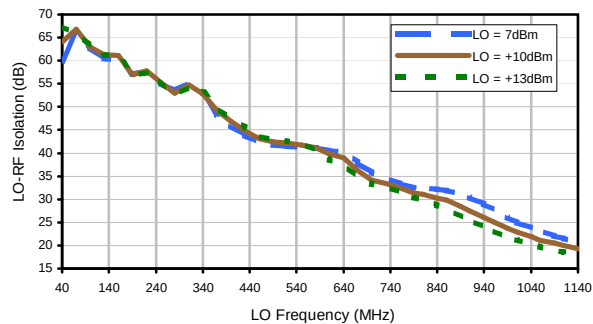


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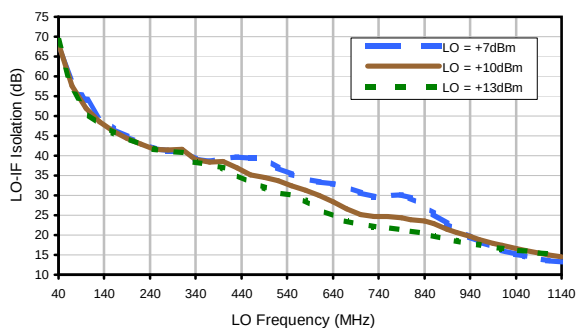


Typical Performance Curves

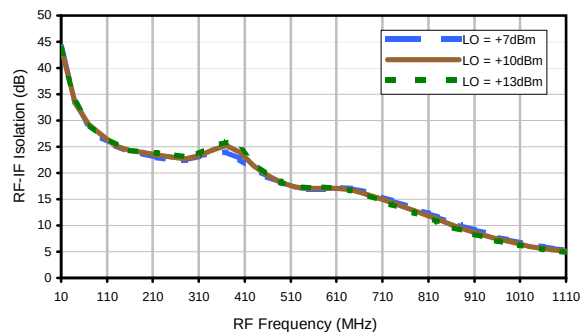
LO-RF Isolation



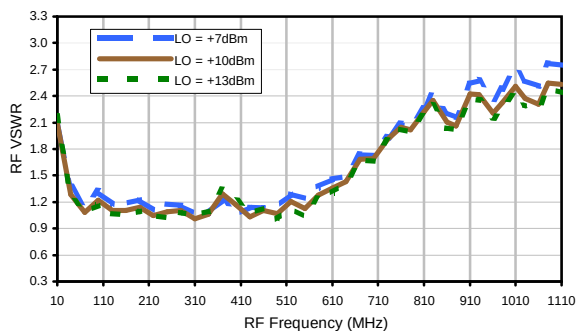
LO-IF Isolation



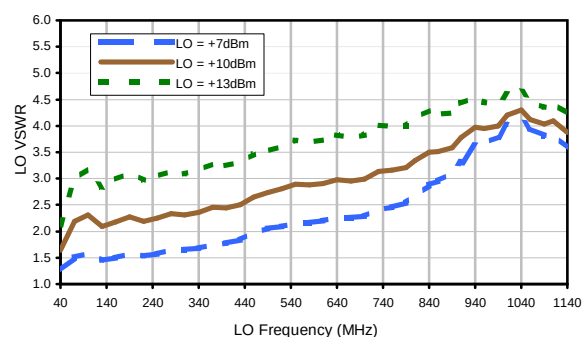
RF-IF Isolation



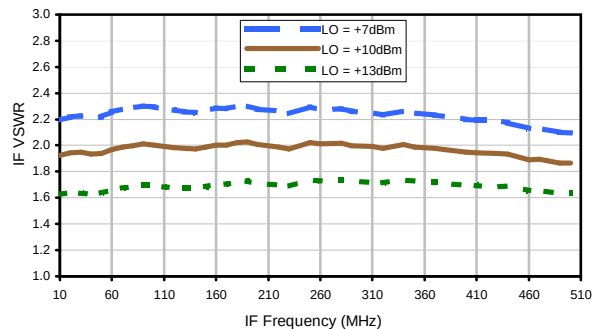
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)		(-dBc)										
	0	-	-	11	27	11	43	17	37	23	48	61	54
	1	-	17	+0	26	12	32	22	34	43	49	38	63
	2	86	61	44	67	45	67	44	60	47	64	52	> 75
	3	> 90	62	55	64	55	70	53	64	60	71	63	> 75
	4	> 90	> 75	> 75	> 75	> 75	> 75	> 74	> 75	> 72	> 75	> 75	> 75
	5	> 90	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75
	6	> 90	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75
	7	> 90	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75
	8	> 90	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 73	> 75	> 75
	9	> 90	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75
	10	> 90	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75	> 75
RF CAL		0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 250.00 MHz; -10.00 dBm.
 LO IN: 280.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -15.39 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)											
	0	-	-	19	40	23	50	30	49	38	64	53	78
	1	-	18	+0	28	12	38	24	40	42	54	50	65
	2	64	52	38	68	40	55	42	52	43	70	49	84
	3	> 90	41	39	45	40	47	39	43	45	50	57	60
	4	> 90	70	60	64	57	63	55	62	51	61	56	69
	5	> 90	69	66	63	49	68	48	71	48	65	60	70
	6	> 90	79	68	78	68	78	67	81	65	69	74	71
	7	> 90	83	78	82	77	71	67	72	63	68	58	68
	8	> 90	> 85	83	> 85	81	> 85	81	82	74	74	71	80
	9	> 90	> 85	> 85	> 85	81	83	78	> 85	77	> 85	72	84
	10	> 90	> 85	> 85	> 85	> 85	> 85	> 85	> 85	83	> 85	83	> 85
	RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.00 MHz; .00 dBm.
 LO IN: 280.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -5.43 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.