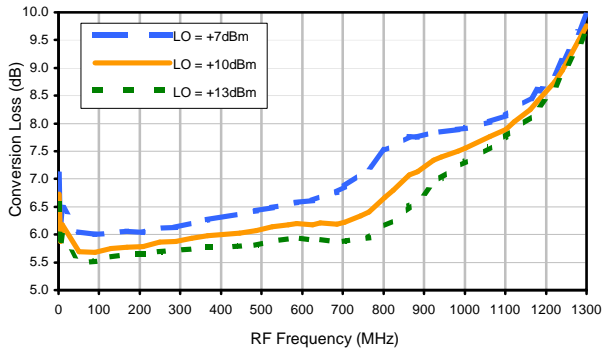


Frequency Mixer

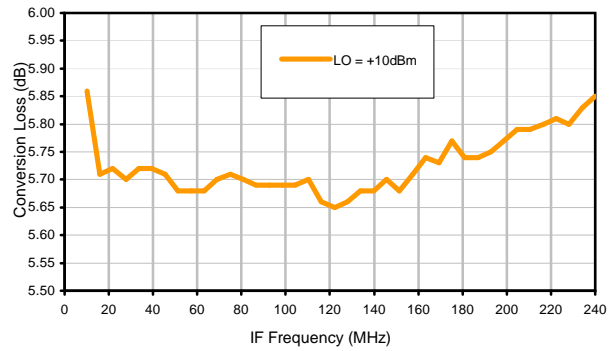
RMS-1LH

Typical Performance Curves

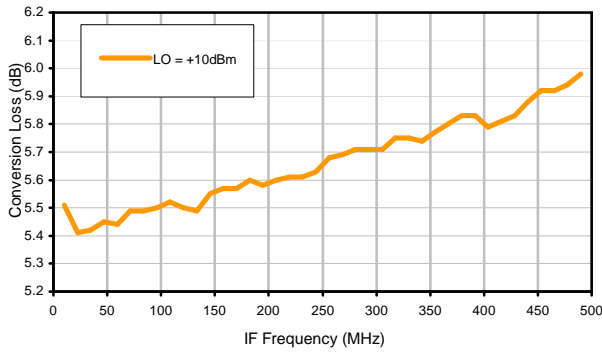
Conversion Loss @ IF=30MHz



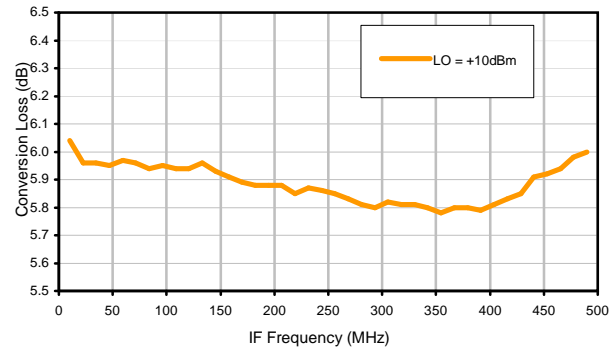
Conversion Loss vs. IF @ RF=250.1MHz



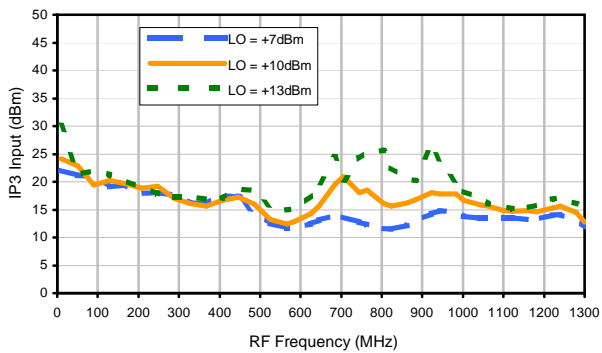
Conversion Loss vs. IF @ RF=10.1MHz



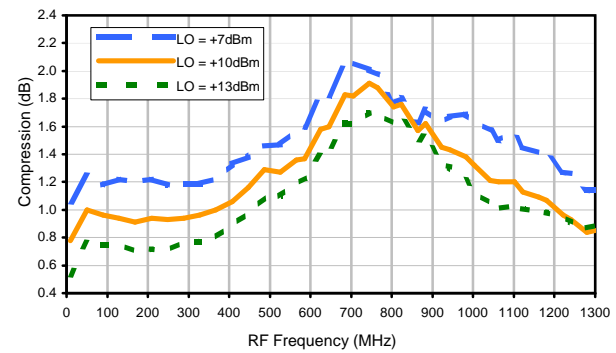
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input

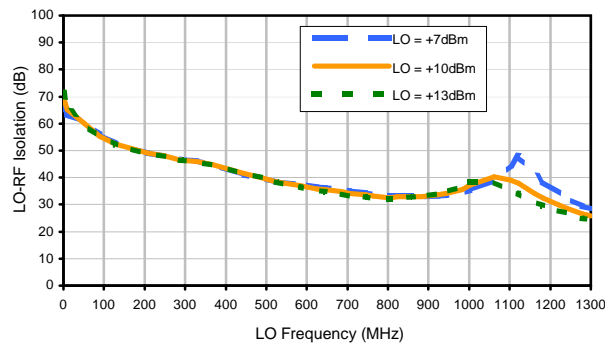


Compression @ RF IN=+5dBm

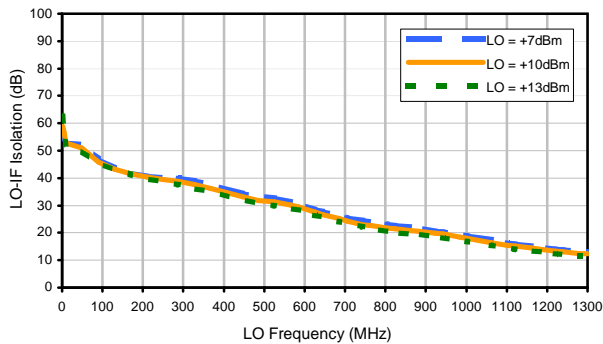


Typical Performance Curves

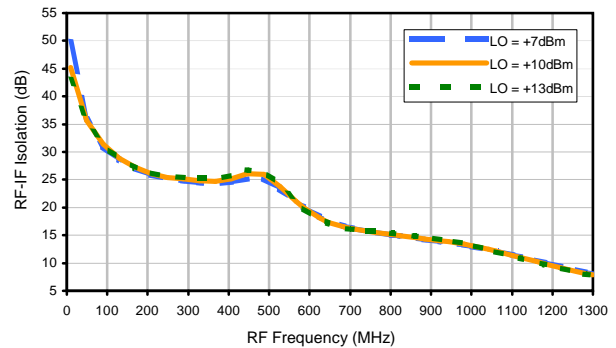
LO-RF Isolation



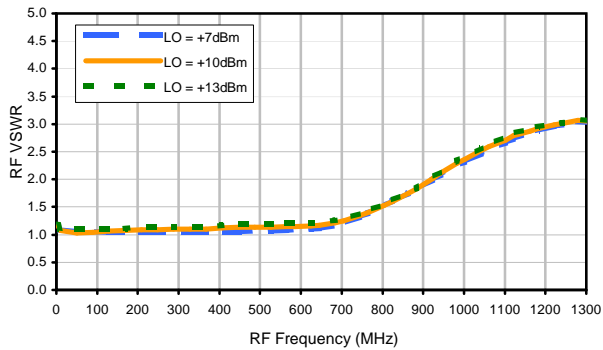
LO-IF Isolation



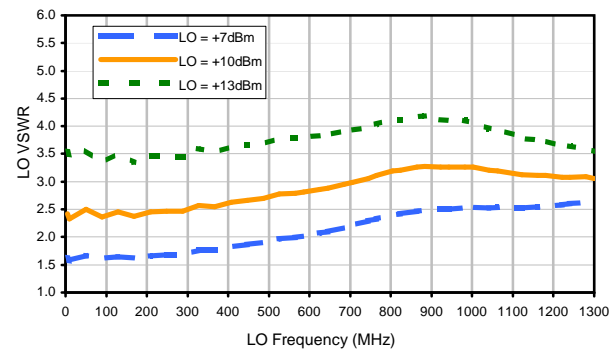
RF-IF Isolation



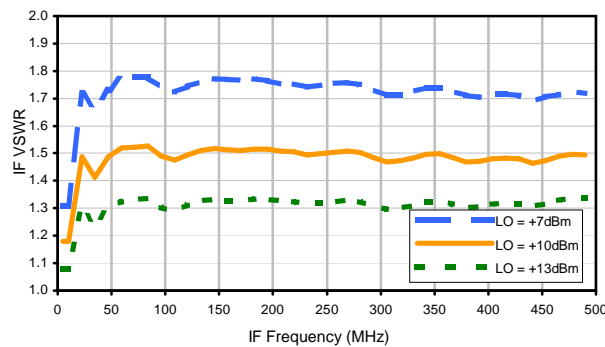
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	35	30	45	29	58	36	55	40	51
1	-	20	+0	31	12	36	19	42	32	53	40	51
2	95	62	41	61	41	61	42	62	45	68	59	79
3	>100	48	47	53	53	59	43	53	42	69	56	59
4	>100	78	57	74	56	71	56	65	53	74	56	78
5	>100	65	58	60	53	63	51	61	49	67	50	71
6	>100	84	68	88	67	84	70	79	72	75	67	91
7	>100	87	70	>94	67	76	77	77	80	74	69	74
8	>100	>94	84	90	85	92	83	94	86	84	80	80
9	>100	86	87	90	74	81	71	79	77	74	82	81
10	>100	>94	>94	>94	>94	>94	91	>94	90	92	92	91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; 0.00 dBm.
 LO IN: 280.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -6.07 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	25	16	32	16	45	24	44	29	39
1	-	20	+0	30	12	35	18	41	31	45	42	44
2	>100	71	44	67	45	67	45	67	48	76	61	68
3	>100	74	64	71	60	70	55	>84	57	74	64	72
4	>100	>84	76	>84	76	>84	84	>84	81	>84	>84	>84
5	>100	>84	>84	>84	>84	>84	>84	>84	80	>84	82	>84
6	>100	>84	>84	>84	>84	>84	83	>84	>84	>84	>84	>84
7	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>100	>84	>84	>84	>84	>84	>84	>84	80	>84	>84	>84
9	>100	>84	>84	>84	>84	>84	>84	>84	>84	69	>84	>84
10	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	73	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -10.00 dBm.
 LO IN: 280.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -15.98 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.

REV. X2
 RMS-1LH
 100817
 Page 3 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
 P.O. Box 350166, Brooklyn, New York 11235-0006 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

