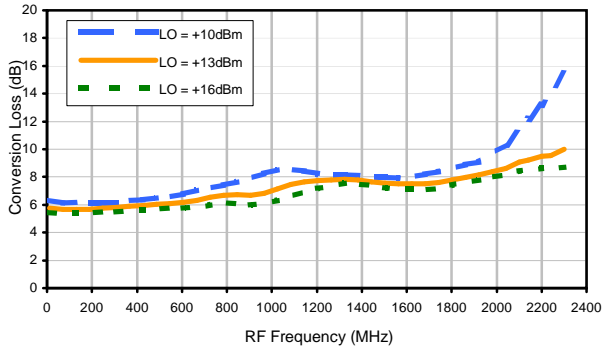


Frequency Mixer

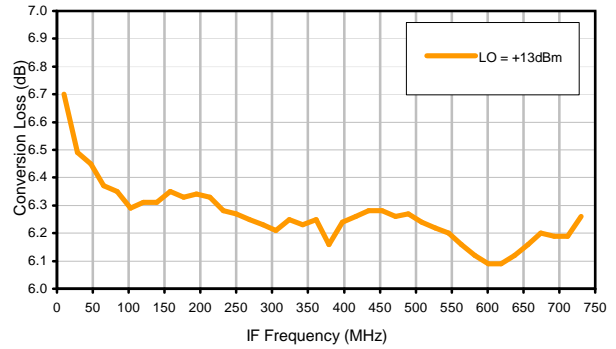
RMS-5MH+

Typical Performance Curves

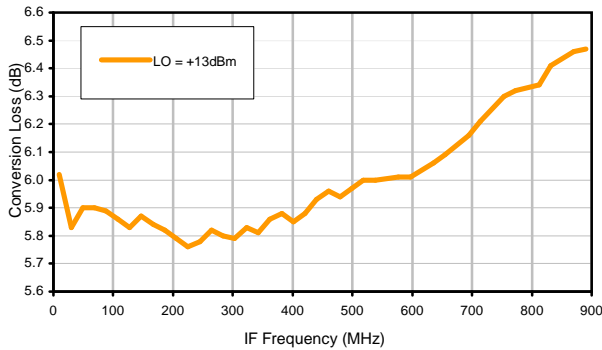
Conversion Loss @ IF=30MHz



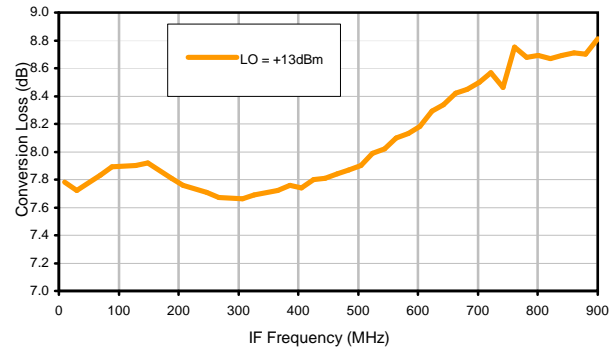
Conversion Loss vs. IF @ RF=750.1MHz



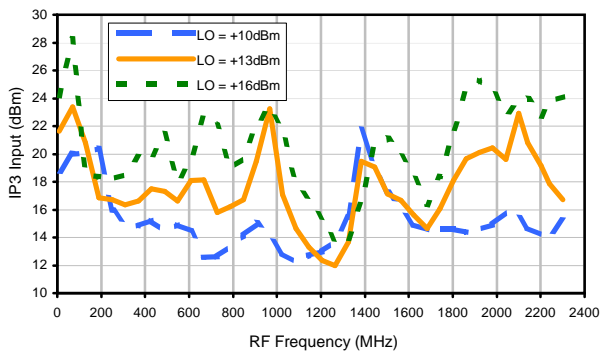
Conversion Loss vs. IF @ RF=10.1MHz



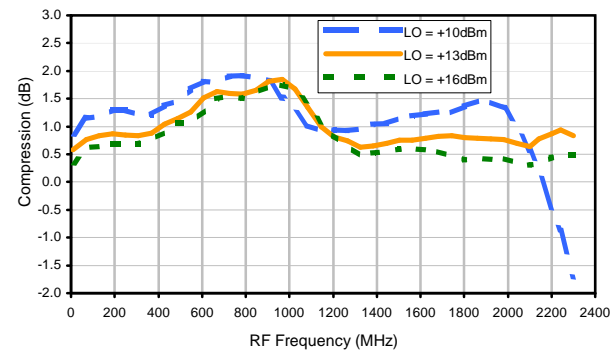
Conversion Loss vs. IF @ RF=1500.1MHz



IP3 Input

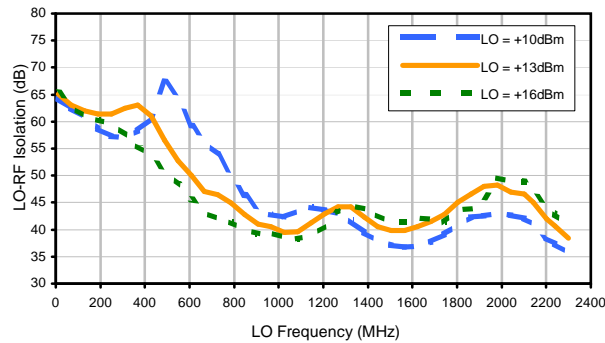


Compression @ RF IN=+9dBm

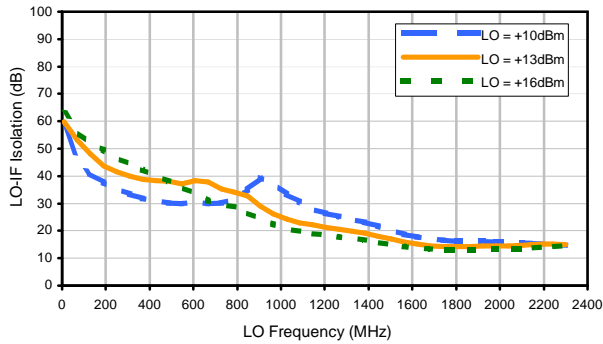


Typical Performance Curves

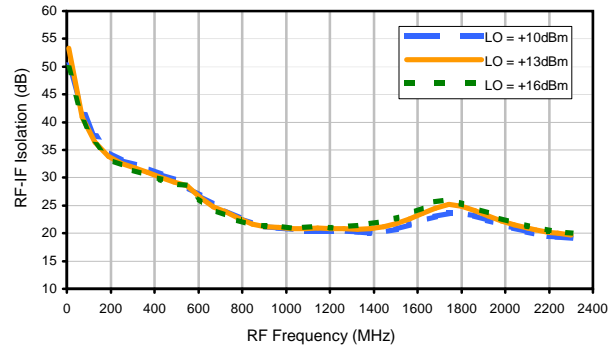
LO-RF Isolation



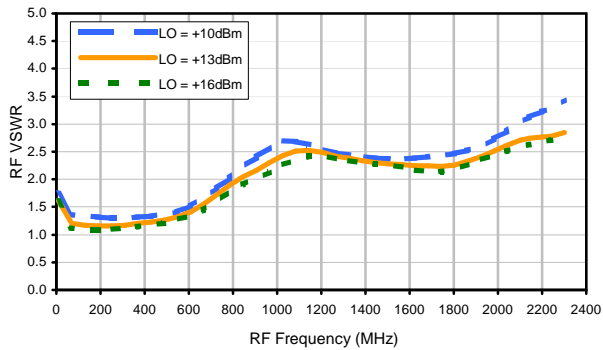
LO-IF Isolation



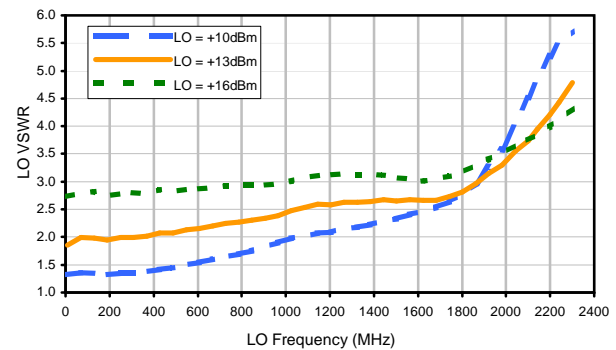
RF-IF Isolation



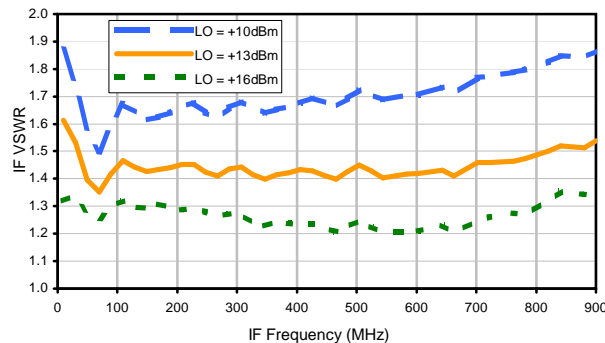
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	43	18	36	21	54	31	57	40	62
1	-	15	+0	35	21	39	39	50	40	52	41	56
2	78	42	31	41	28	60	39	47	42	53	44	75
3	>100	50	38	41	38	43	53	56	41	60	49	59
4	>100	53	60	52	43	49	45	55	58	55	50	70
5	>100	55	54	58	56	65	47	67	58	71	59	64
6	>100	74	62	63	68	68	48	66	46	70	56	60
7	>100	79	67	68	62	83	63	65	72	63	69	69
8	>100	93	84	86	68	69	76	63	60	60	64	69
9	>100	94	89	85	74	83	79	82	72	69	71	67
10	>100	93	94	93	86	80	73	73	96	78	67	85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; 4.00 dBm.
 LO IN: 780.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -2.59 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	32	7	26	7	42	20	41	31	44
1	-	16	+0	30	20	36	30	42	30	46	35	50
2	96	47	34	44	32	52	57	48	49	62	50	63
3	>100	77	51	56	47	56	54	75	54	66	61	66
4	>100	>87	>87	77	61	70	58	75	70	77	67	71
5	>100	>87	82	>87	73	76	69	75	75	84	78	>87
6	>100	>87	>87	>87	>87	85	80	80	77	>87	>87	>87
7	>100	>87	>87	>87	>87	>87	>87	>87	85	>87	>87	>87
8	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; -6.00 dBm.
 LO IN: 780.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -12.77 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-5MH+
 100818
 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

