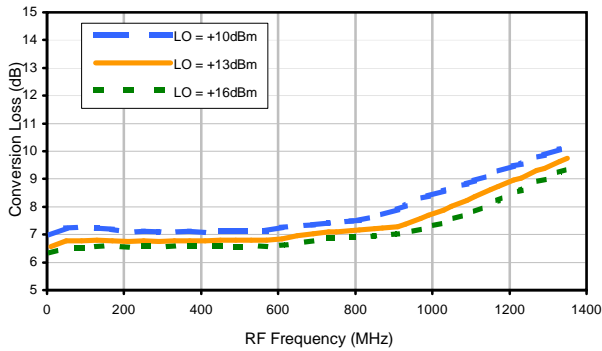


Frequency Mixer

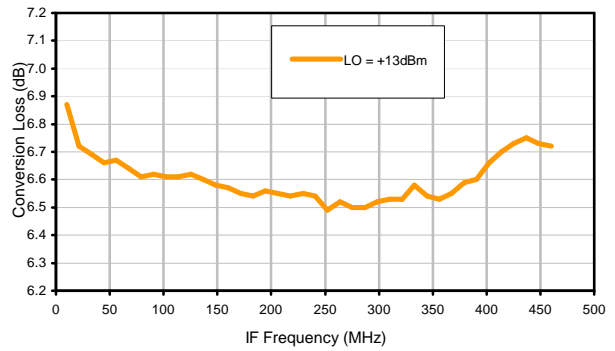
JMS-2MH+

Typical Performance Curves

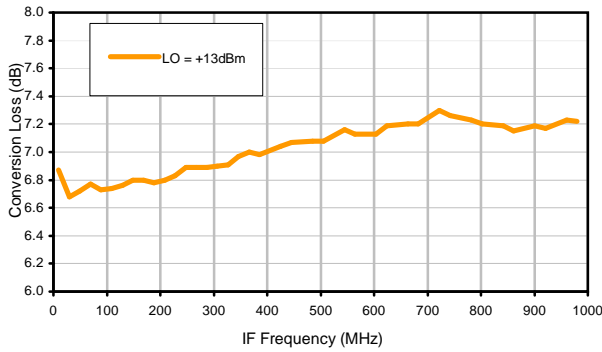
Conversion Loss @ IF=30MHz



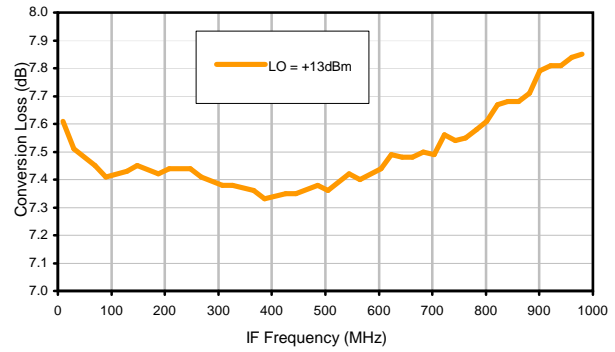
Conversion Loss vs. IF @ RF=500.1MHz



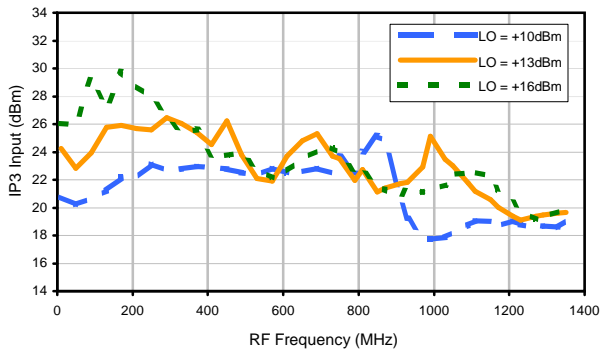
Conversion Loss vs. IF @ RF=20.1MHz



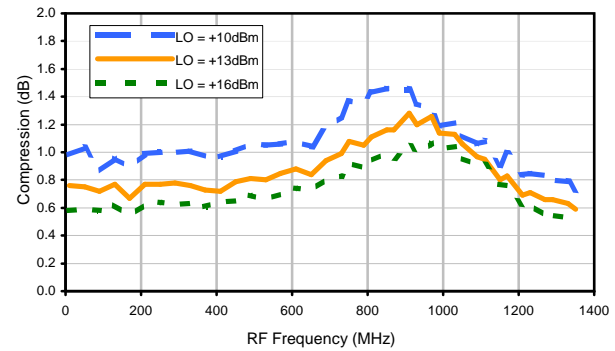
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

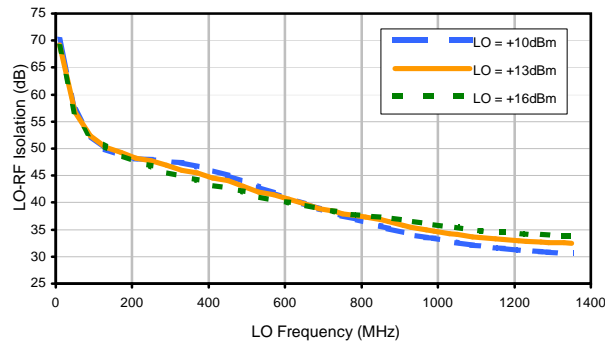


Compression @ RF IN=+9dBm

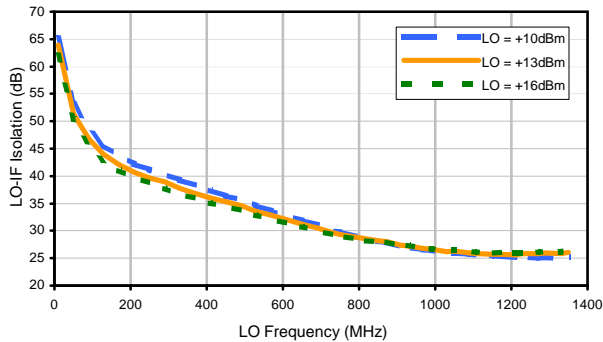


Typical Performance Curves

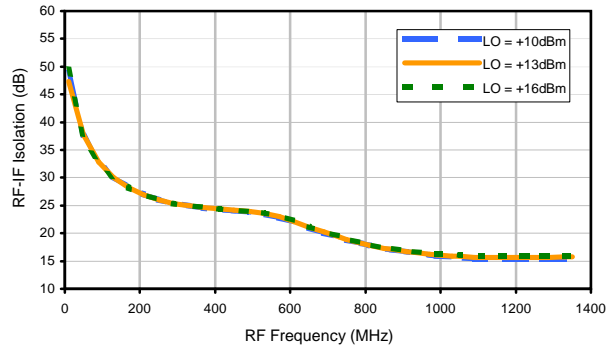
LO-RF Isolation



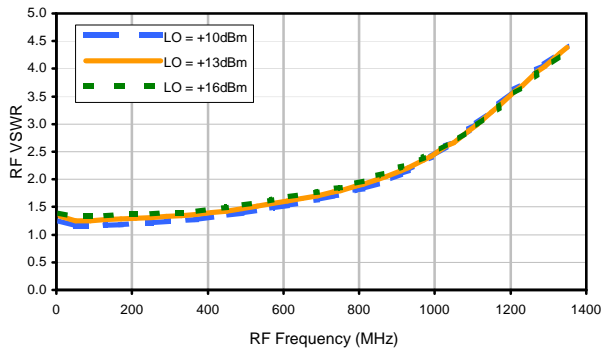
LO-IF Isolation



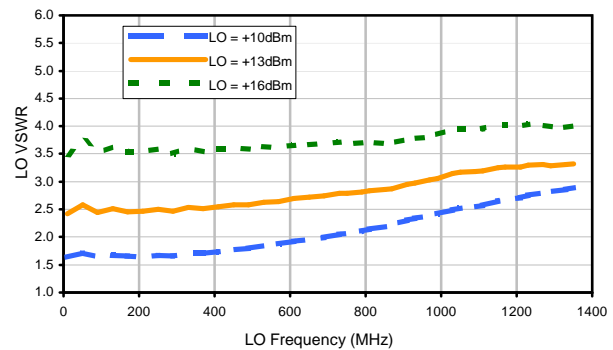
RF-IF Isolation



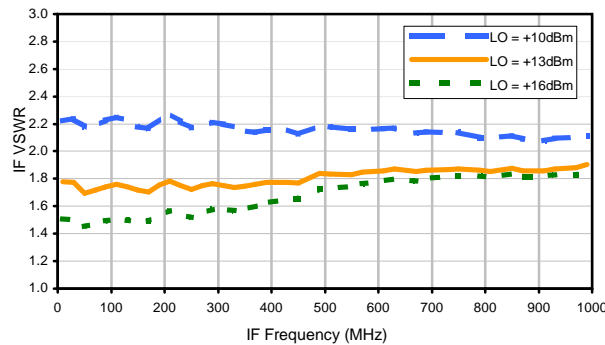
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	39	32	37	36	51	36	58	43	62
1	-	17	+0	31	12	40	22	44	40	45	71	46
2	85	47	41	55	41	51	43	62	49	63	47	58
3	>100	69	48	58	52	53	44	53	55	57	52	54
4	>100	70	72	72	64	73	68	74	58	69	65	70
5	>100	70	70	73	57	67	53	63	52	65	54	71
6	>100	96	82	93	76	83	70	76	66	75	67	78
7	>100	88	84	88	77	89	74	87	73	78	87	76
8	>100	94	94	>98	92	>98	92	>98	91	97	88	88
9	>100	94	96	>98	94	95	87	94	85	97	87	88
10	>100	>98	>98	>98	>98	>98	97	>98	93	>98	92	95
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; 4.00 dBm.
 LO IN: 530.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -2.46 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	29	18	26	23	36	21	40	29	49
1	-	17	+0	32	12	38	22	41	39	39	66	38
2	>100	57	50	76	51	62	50	72	59	67	55	58
3	>100	>88	71	79	64	74	60	78	63	>88	66	77
4	>100	>88	87	>88	85	>88	82	>88	85	>88	86	>88
5	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
6	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -6.00 dBm.
 LO IN: 530.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -12.43 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.

REV. X2
 JMS-2MH+
 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 minicircuits.com