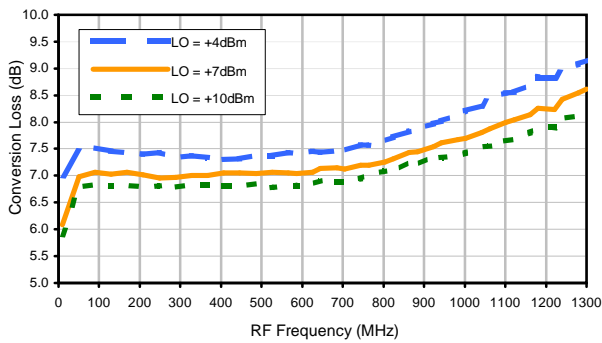


Frequency Mixer

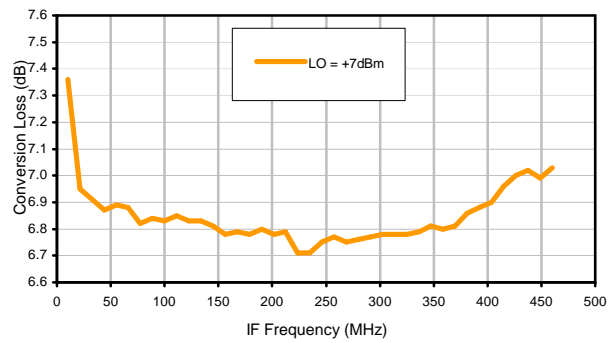
JMS-2+

Typical Performance Curves

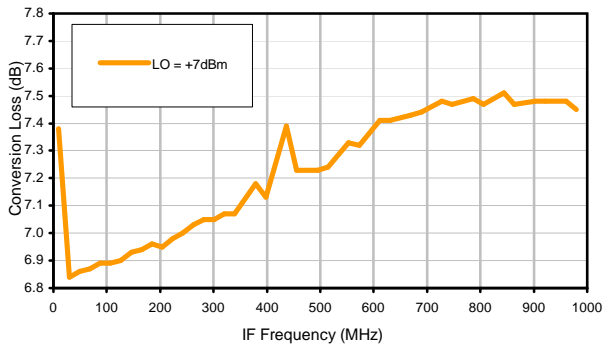
Conversion Loss @ IF=30MHz



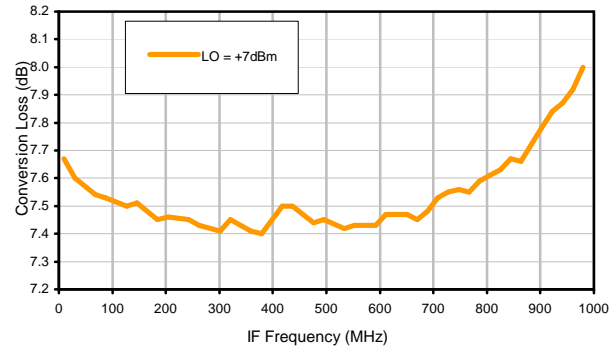
Conversion Loss vs. IF @ RF=500.1MHz



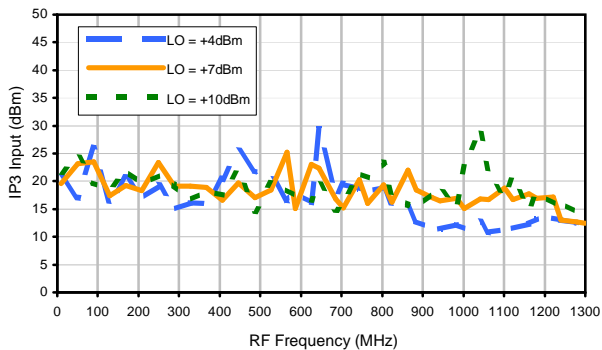
Conversion Loss vs. IF @ RF=20.1MHz



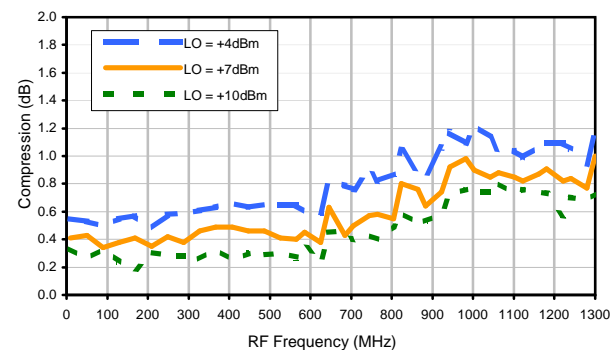
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input



Compression @ RF IN=+1dBm



REV. X2

JMS-2+

100817

Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

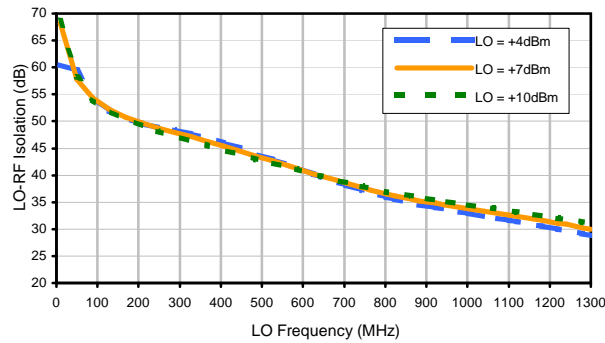


The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

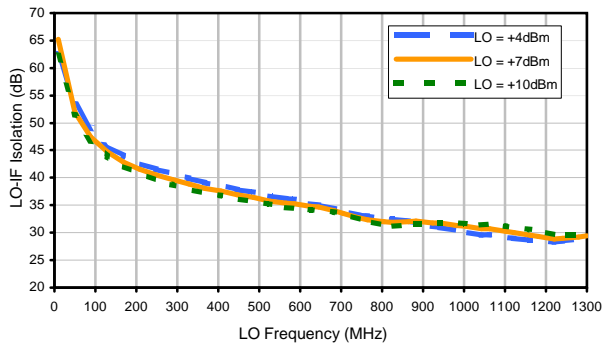


Typical Performance Curves

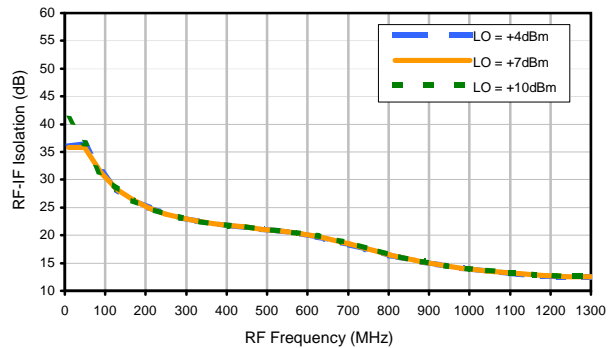
LO-RF Isolation



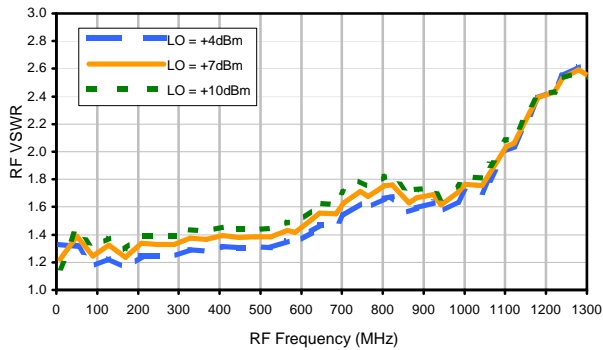
LO-IF Isolation



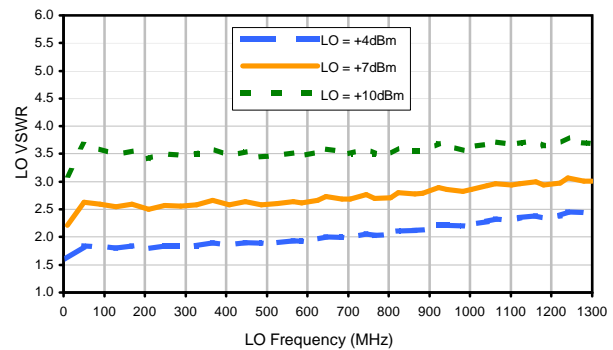
RF-IF Isolation



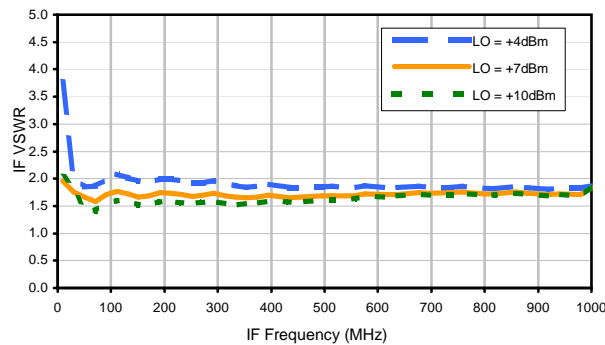
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	28	16	24	26	33	37	32	36	50
1	-	14	0	30	12	38	19	38	37	41	50	37
2	110	61	52	70	53	64	52	71	57	77	69	60
3	112	83	75	85	73	78	64	87	77	83	75	79
4	110	98	95	96	90	83	101	101	94	104	92	99
5	121	108	104	101	102	91	100	105	104	98	103	107
6	113	103	104	106	104	100	93	88	97	105	104	98
7	119	107	114	122	110	104	106	101	93	103	105	106
8	117	113	99	102	110	99	97	108	91	92	97	99
9	119	103	104	102	104	98	108	105	96	92	87	101
10	119	101	107	110	111	107	105	105	113	93	99	91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -14.00 dBm.
 LO IN: 530.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -20.87 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	38	27	34	40	44	50	47	52	76
1	-	14	0	30	12	39	20	41	37	46	57	43
2	97	51	44	56	43	54	45	60	51	64	67	56
3	119	61	51	62	54	55	46	60	49	57	58	57
4	112	72	78	75	66	81	68	81	59	74	63	78
5	114	77	76	76	63	75	59	71	58	77	60	80
6	109	103	85	92	81	85	78	83	74	84	75	89
7	127	98	89	98	79	93	79	90	79	88	84	83
8	115	103	108	108	106	103	101	118	91	95	93	97
9	117	102	110	108	104	102	103	106	101	102	91	115
10	118	110	117	113	114	111	103	105	116	110	105	105
	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; +7.00 dBm
 IF OUT: 29.91 MHz; -11.05 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-2+
 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 11235-0003 (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