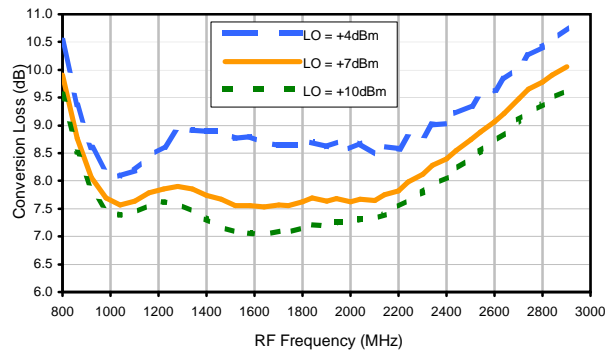
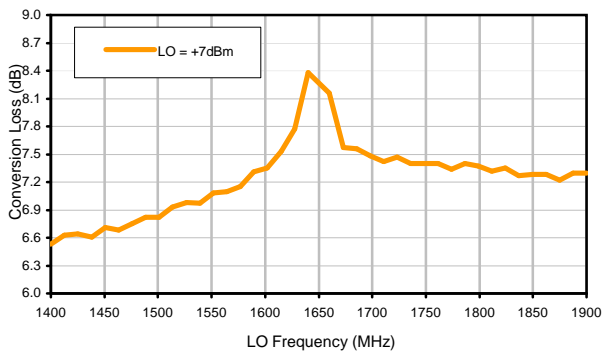


## Typical Performance Curves

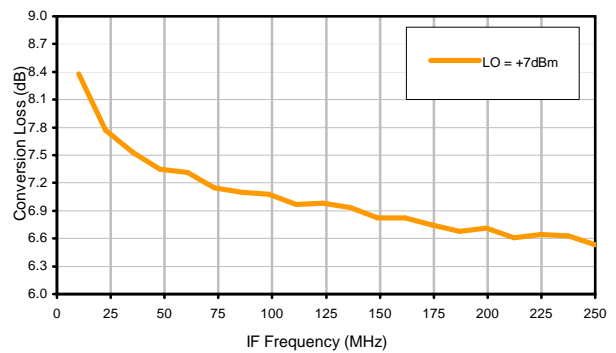
Conversion Loss @ IF=40MHz



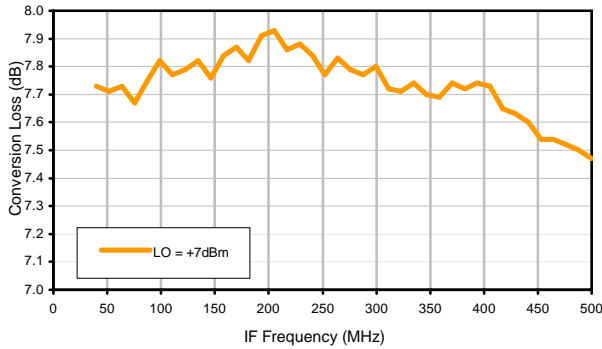
Conversion Loss vs. LO @ RF=1650.1MHz



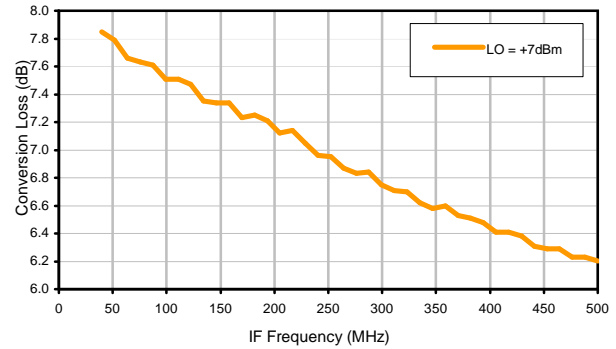
Conversion Loss vs. IF @ RF=1650.1MHz



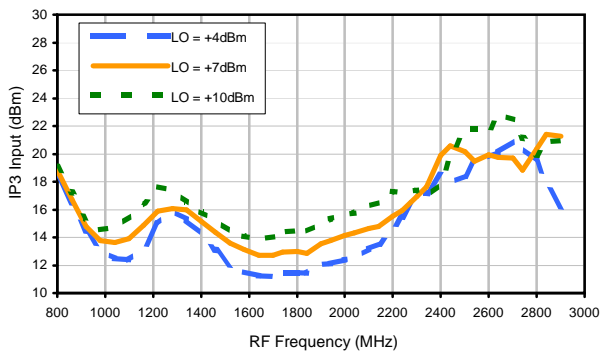
Conversion Loss vs. IF @ RF=1400.1MHz



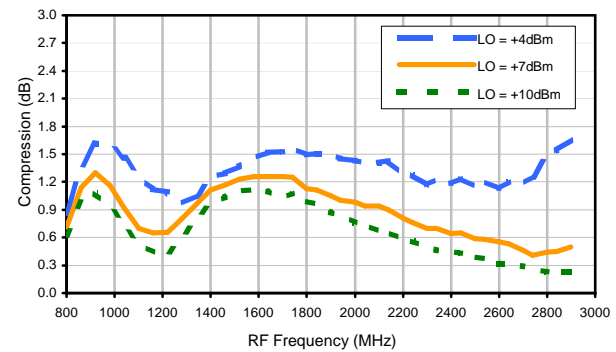
Conversion Loss vs. IF @ RF=1900.1MHz



IP3 Input

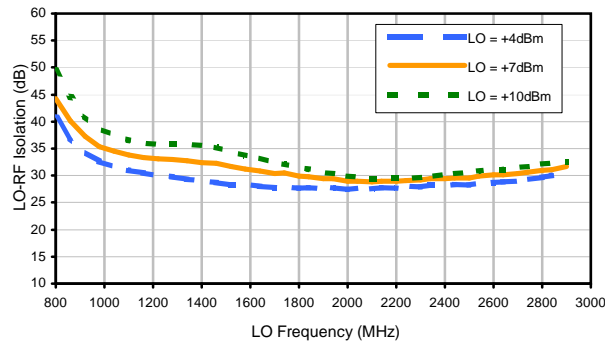


Compression @ RF IN=+9dBm

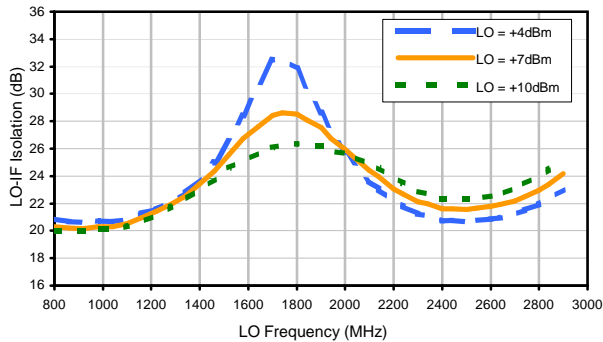


## Typical Performance Curves

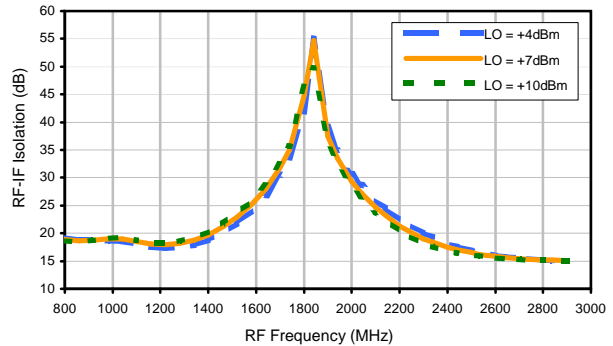
LO-RF Isolation



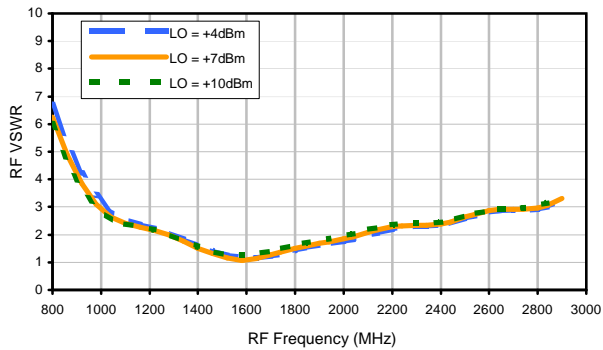
LO-IF Isolation



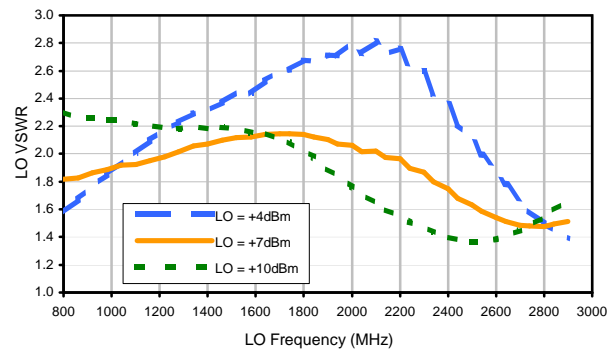
RF-IF Isolation



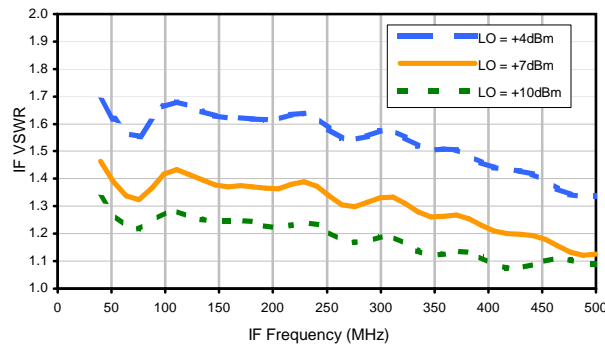
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	30	31	62	51	61	34	55	71	79
1	-	21	+0	39	17	50	60	63	58	67	61	80
2	>100	52	36	42	37	52	53	70	76	71	49	69
3	>100	58	42	48	32	65	47	66	69	74	68	67
4	>100	79	59	75	46	55	59	61	58	75	85	72
5	>100	79	82	88	56	60	43	75	52	77	76	87
6	>100	88	90	93	74	72	54	84	67	70	66	82
7	>100	85	90	94	96	84	67	69	63	81	69	85
8	>100	85	>96	95	>96	>96	76	82	63	74	73	78
9	>100	>96	92	>96	94	>96	>96	93	80	75	66	88
10	>100	>96	95	90	93	>96	>96	>96	91	82	68	74
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1650.10 MHz; +4.00 dBm.  
 LO IN: 1690.01 MHz; +13.00 dBm  
 IF OUT: 39.91 MHz; -3.59 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	20	22	45	37	42	21	36	51	55
1	-	21	+0	37	16	43	51	52	49	47	48	56
2	>100	59	42	46	46	56	58	69	71	62	53	54
3	>100	76	59	71	49	81	57	77	76	81	75	73
4	>100	>86	81	>86	73	81	83	>86	81	>86	>86	82
5	>100	>86	>86	>86	>86	>86	85	>86	>86	>86	>86	>86
6	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
7	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
8	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
9	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
10	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1650.10 MHz; -6.00 dBm.  
 LO IN: 1690.01 MHz; +13.00 dBm  
 IF OUT: 39.91 MHz; -13.62 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  
 TUF-11AMHSM  
 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

