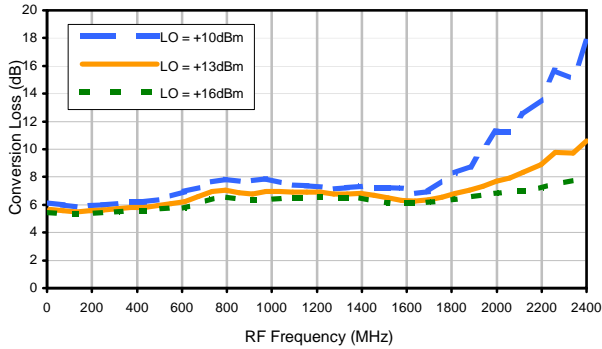


Frequency Mixer

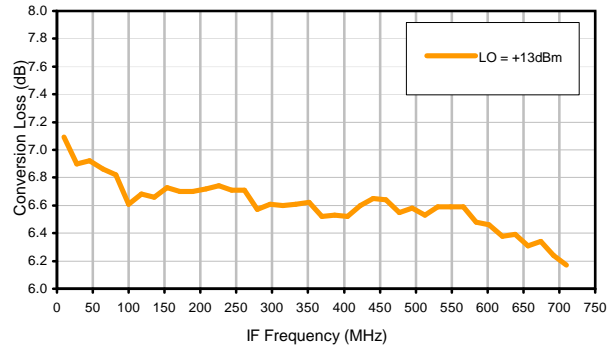
TUF-5MHSM

Typical Performance Curves

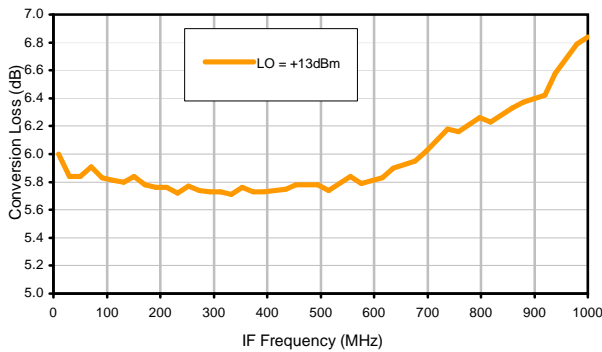
Conversion Loss @ IF=30MHz



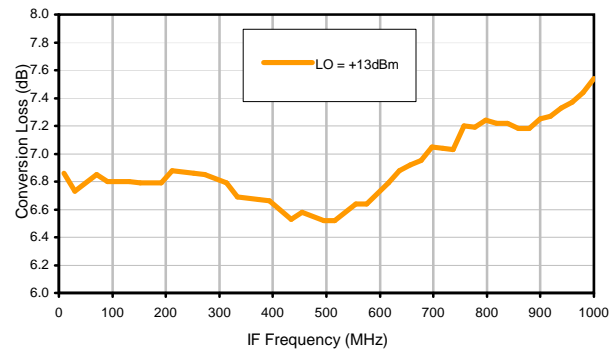
Conversion Loss vs. IF @ RF=750.1MHz



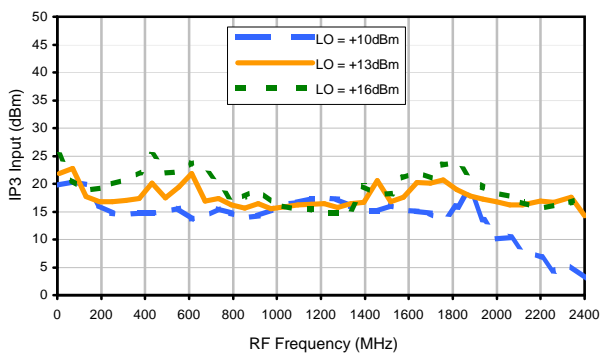
Conversion Loss vs. IF @ RF=20.1MHz



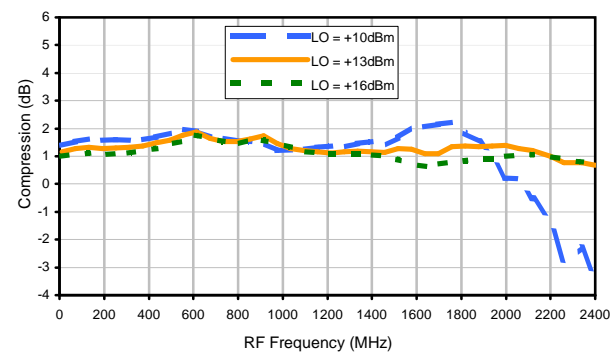
Conversion Loss vs. IF @ RF=1500.1MHz



IP3 Input

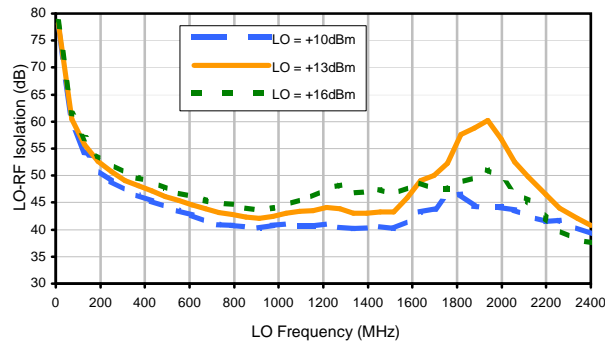


Compression @ RF IN=+9dBm

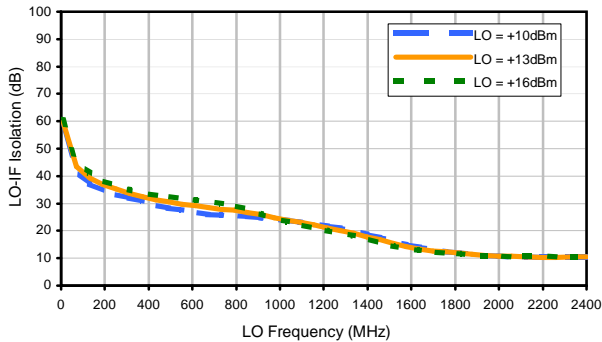


Typical Performance Curves

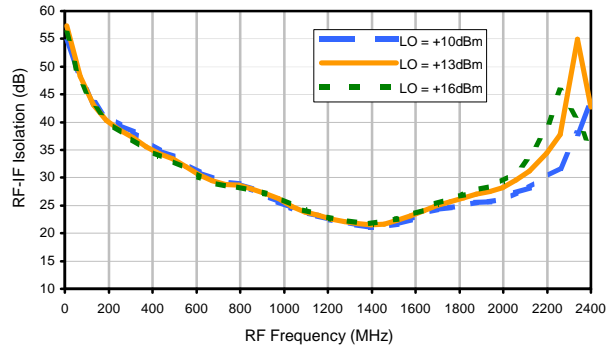
LO-RF Isolation



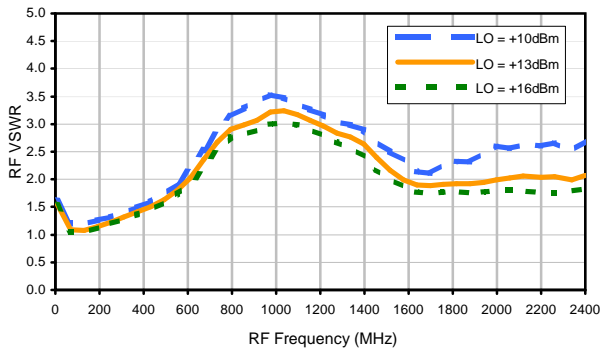
LO-IF Isolation



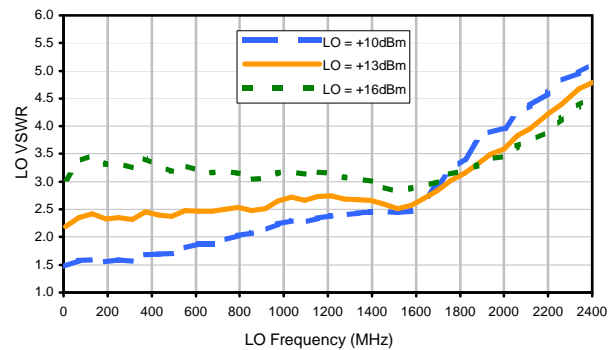
RF-IF Isolation



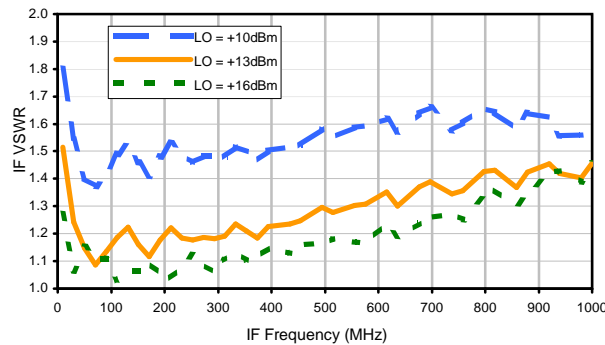
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	52	34	50	27	55	42	70	50	76
1	-	24	+0	42	22	52	42	58	50	72	55	69
2	78	54	39	53	38	65	57	71	47	66	56	77
3	>100	56	37	53	35	56	43	64	42	74	58	75
4	>100	74	71	66	52	62	54	70	66	88	66	80
5	>100	65	57	72	55	74	51	83	59	79	56	74
6	>100	84	71	78	90	72	65	70	62	79	73	79
7	>100	89	76	92	66	85	59	73	55	75	66	85
8	>100	>97	>97	>97	79	91	87	88	67	79	68	88
9	>100	>97	>97	>97	96	90	80	96	72	84	71	>97
10	>100	>97	>97	>97	>97	>97	83	91	92	82	74	80
	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; -2.91 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	36	26	42	14	44	33	60	39	61
1	-	25	+0	38	24	47	36	52	46	59	49	58
2	93	63	55	59	52	68	59	>87	57	73	56	80
3	>100	78	57	73	52	75	59	>87	58	76	71	85
4	>100	>87	>87	>87	86	>87	83	>87	>87	>87	78	>87
5	>100	>87	>87	>87	>87	>87	84	>87	>87	>87	86	>87
6	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
7	>100	>87	>87	>87	>87	>87	>87	>87	>87	>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; -13.18 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.

