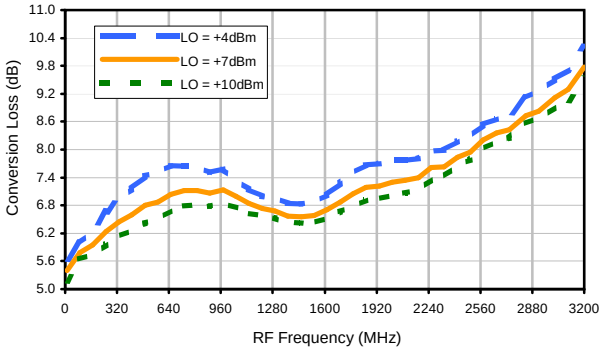
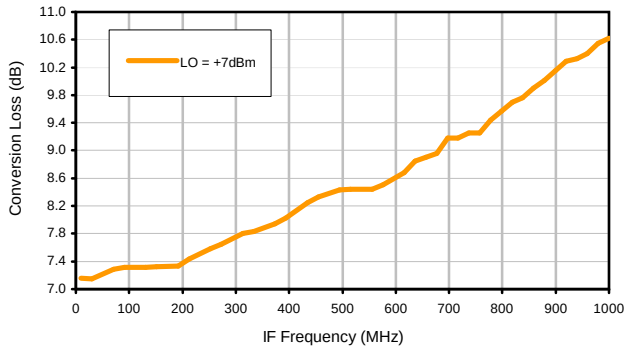
Frequency Mixer TFM-11+

Typical Performance Curves

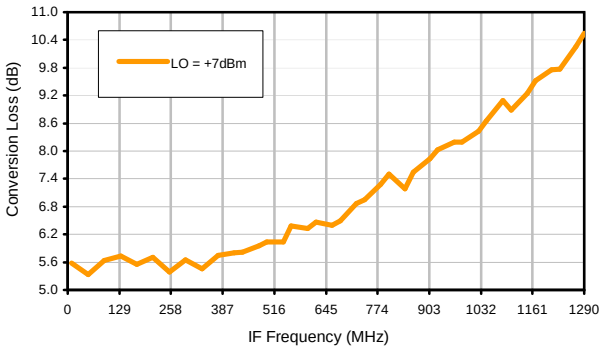
Conversion Loss @ IF=30MHz



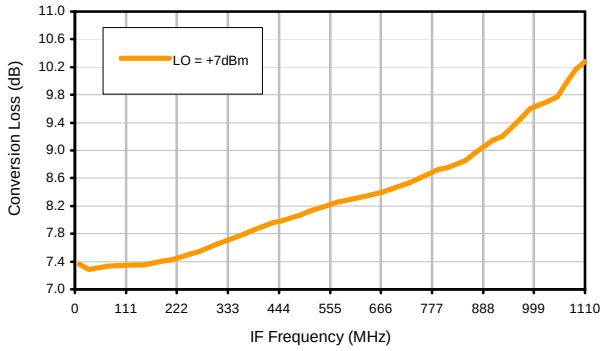
Conversion Loss vs. IF @ RF=1010.1MHz



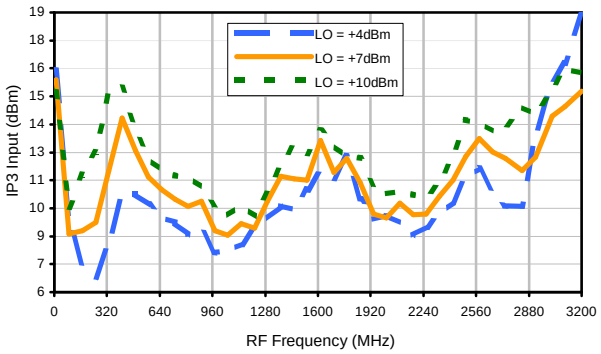
Conversion Loss vs. IF @ RF=10.1MHz



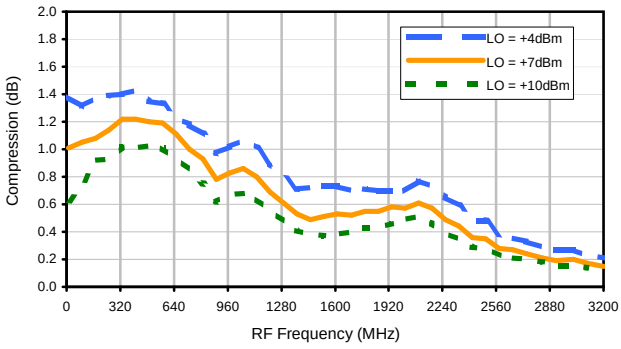
Conversion Loss vs. IF @ RF=2010.1MHz



IP3 Input

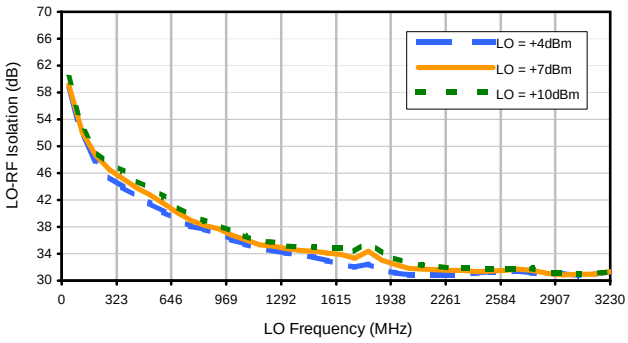


Compression @ RF IN=+1dBm

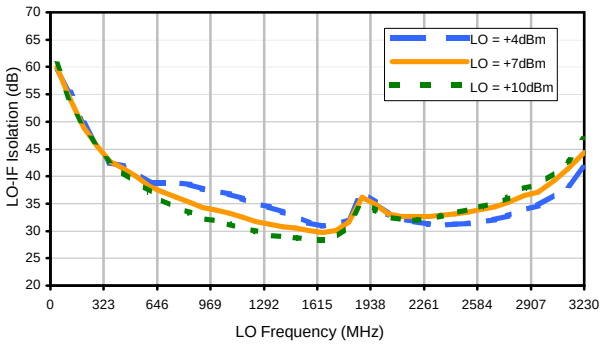


Typical Performance Curves

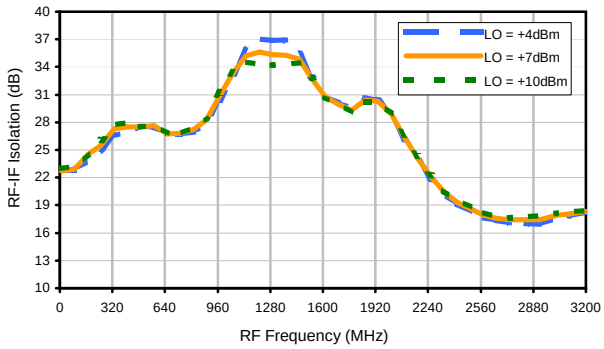
LO-RF Isolation



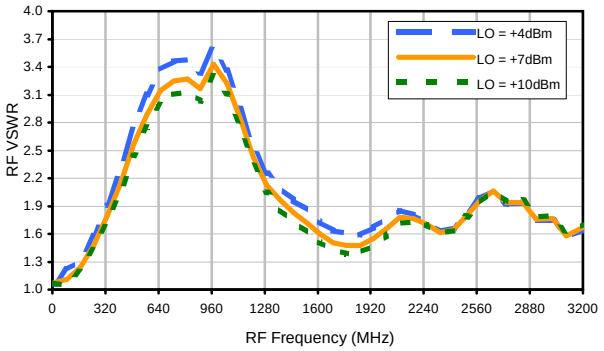
LO-IF Isolation



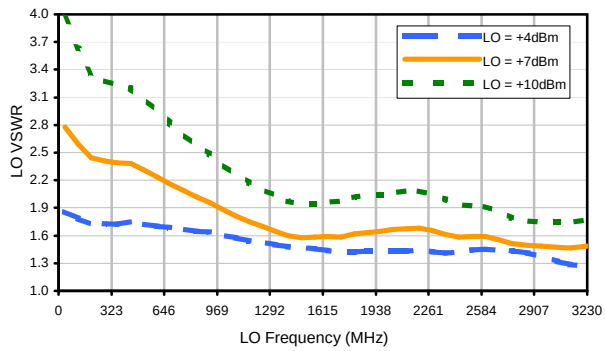
RF-IF Isolation



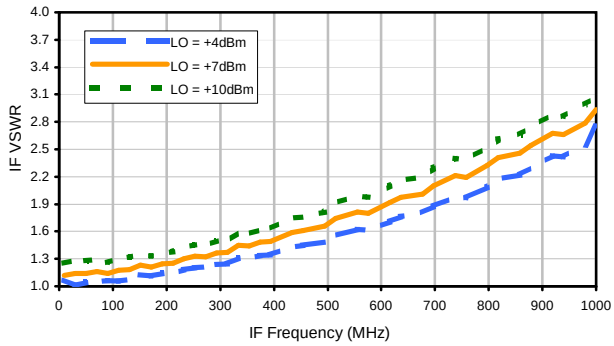
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	5	39	19	51	23	39	33	50	45	>69
1	-	24	+0	37	36	44	30	37	46	36	43	42
2	>90	>69	59	66	63	>69	58	>69	59	65	61	>69
3	>90	>69	>69	>69	53	>69	>69	>69	65	>69	>69	67
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1000 MHz; -14.00 dBm.
LO IN: 1030 MHz; +7.00 dBm
IF OUT: 30 MHz; -21.31 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	15	50	30	55	35	47	48	59	59	73
1	-	25	+0	38	36	49	31	41	50	43	52	53
2	70	69	49	51	54	77	52	69	55	69	60	75
3	>90	50	56	60	36	71	63	63	51	55	63	55
4	>90	>79	72	>79	71	66	72	>79	68	>79	70	71
5	>90	72	67	72	75	75	53	>79	74	>79	64	66
6	>90	>79	>79	>79	>79	>79	>79	77	>79	>79	78	>79
7	>90	>79	>79	>79	>79	>79	>79	>79	65	>79	>79	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1000 MHz; -4.00 dBm.
LO IN: 1030 MHz; +7.00 dBm
IF OUT: 30 MHz; -11.17 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.