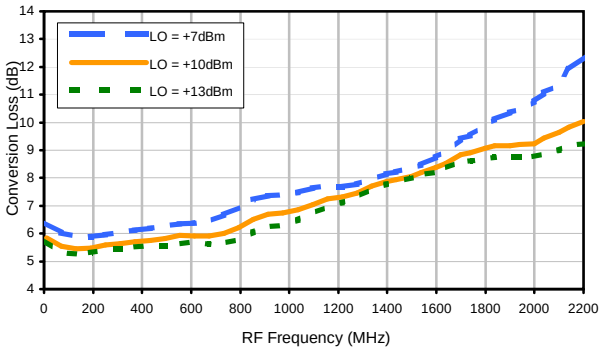
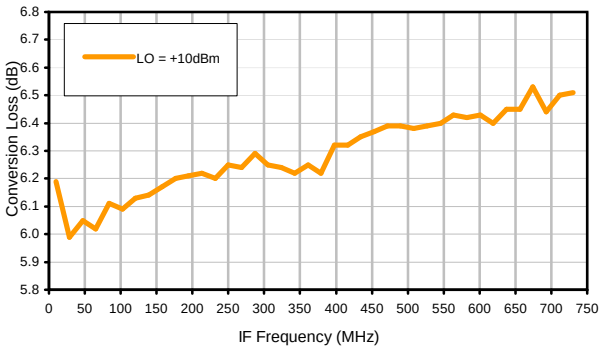
Frequency Mixer RMS-5LH

Typical Performance Curves

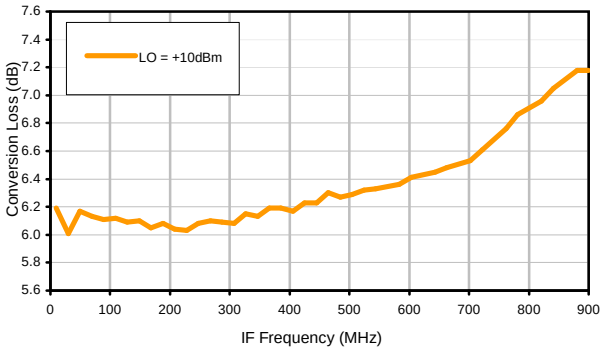
Conversion Loss @ IF=30MHz



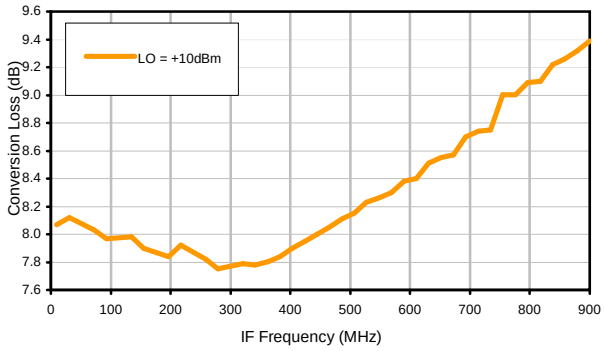
Conversion Loss vs. IF @ RF=750.1MHz



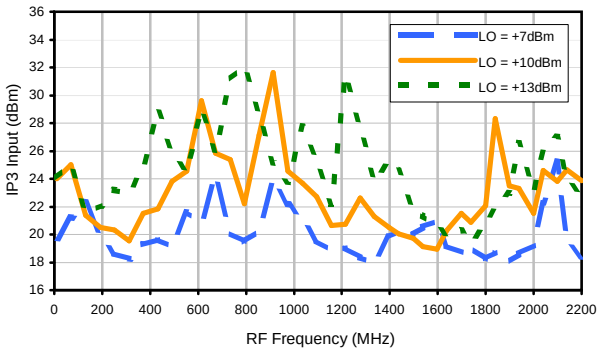
Conversion Loss vs. IF @ RF=10.1MHz



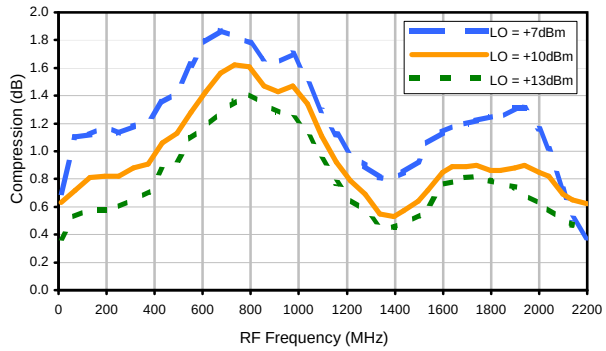
Conversion Loss vs. IF @ RF=1500.1MHz



IP3 Input

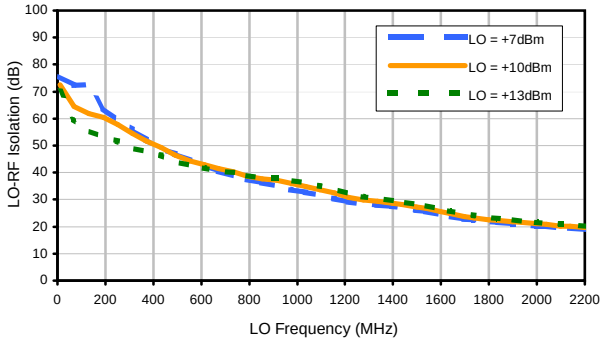


Compression @ RF IN=+5dBm

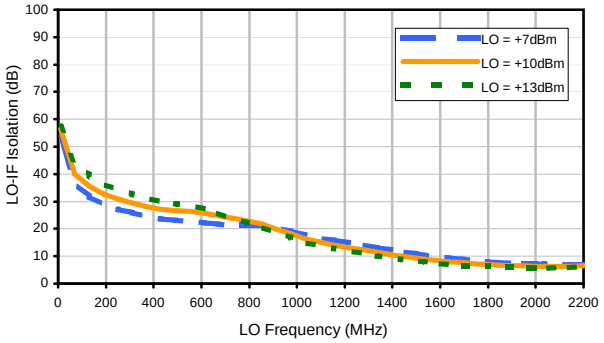


Typical Performance Curves

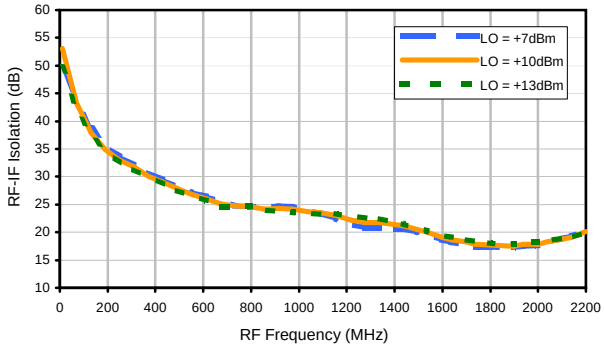
LO-RF Isolation



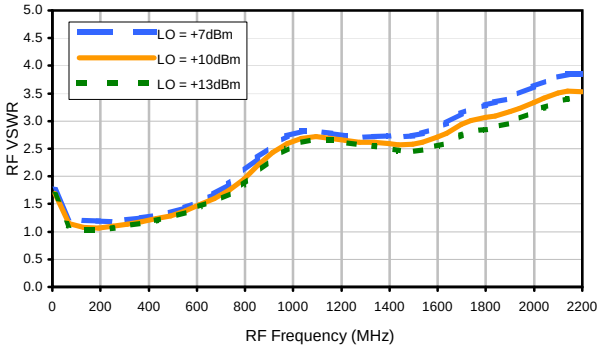
LO-IF Isolation



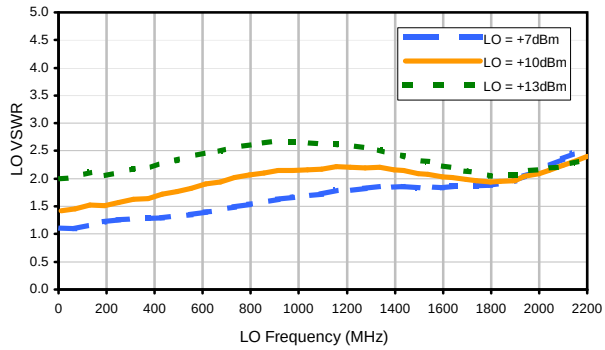
RF-IF Isolation



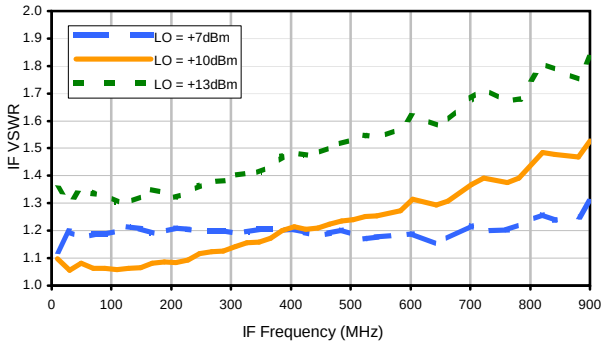
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	6	24	18	42	25	50	40	54	56	56
1	-	18	+0	41	19	48	43	54	51	59	56	60
2	81	42	25	49	25	53	40	63	45	61	54	64
3	>100	50	43	47	42	56	46	58	56	69	54	79
4	>100	64	56	52	51	49	43	63	55	64	67	66
5	>100	73	58	64	54	55	55	55	58	69	66	70
6	>100	78	72	75	70	69	52	61	54	65	64	70
7	>100	87	78	91	70	78	65	70	58	63	69	78
8	>100	>94	83	93	84	87	80	72	65	74	64	72
9	>100	89	>94	90	>94	85	86	84	84	69	68	81
10	>100	>94	>94	>94	>94	>94	90	85	>94	77	74	72
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 750.1 MHz; 0.00 dBm.**
LO IN: 780.01 MHz; +10.00 dBm
IF OUT: 29.91 MHz; -6.17 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+3	14	7	28	12	34	29	40	38	38
1	-	18	+0	40	18	43	37	49	42	54	57	56
2	>100	53	34	53	32	57	46	64	52	63	60	66
3	>100	77	66	67	61	68	61	72	71	72	65	75
4	>100	>84	>84	84	67	76	66	81	83	>84	82	>84
5	>100	>84	>84	>84	>84	>84	77	>84	>84	>84	>84	>84
6	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 750.1 MHz; -10.00 dBm.**
LO IN: 780.01 MHz; +10.00 dBm
IF OUT: 29.91 MHz; -16.12 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.