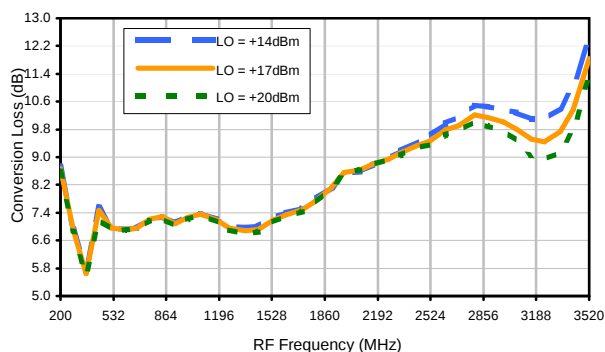


Frequency Mixer

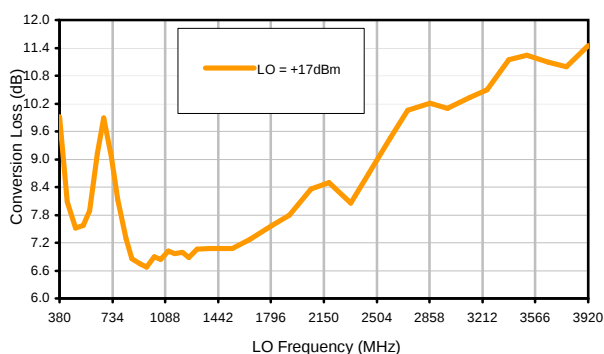
SYXM-ED13232A/1

Typical Performance Curves

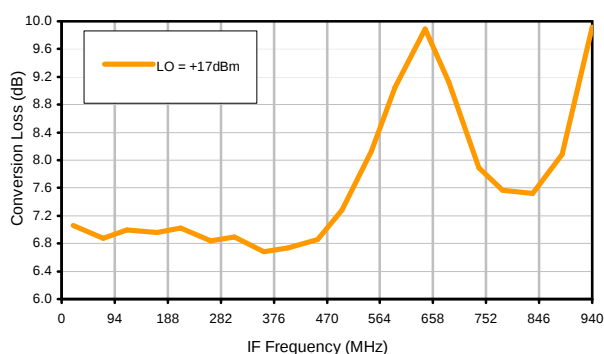
Conversion Loss @ IF=70MHz



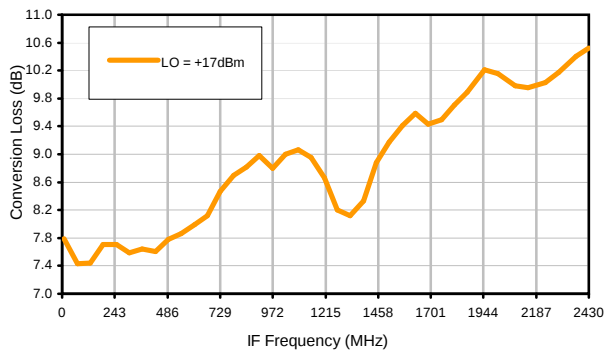
Conversion Loss vs. LO @ RF=1320.1MHz



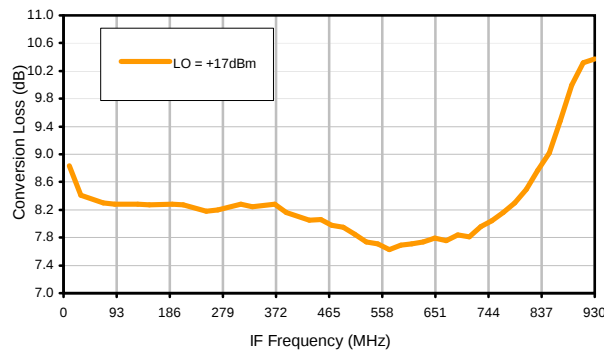
Conversion Loss vs. IF @ RF=1320.1MHz



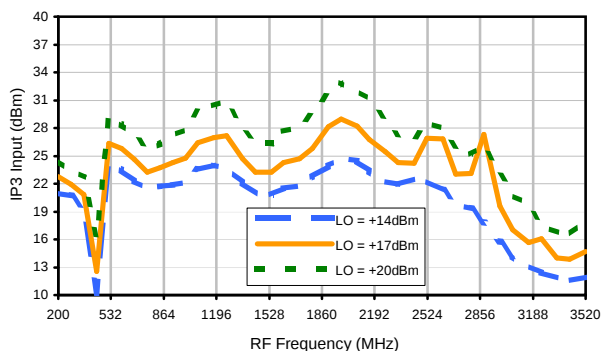
Conversion Loss vs. IF @ RF=710.1MHz



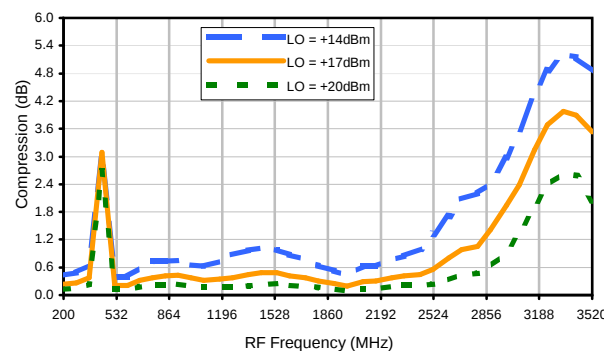
Conversion Loss vs. IF @ RF=1930.1MHz



IP3 Input

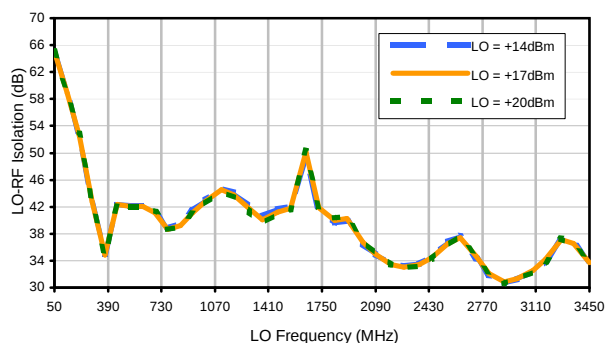


Compression @ RF IN=+13dBm

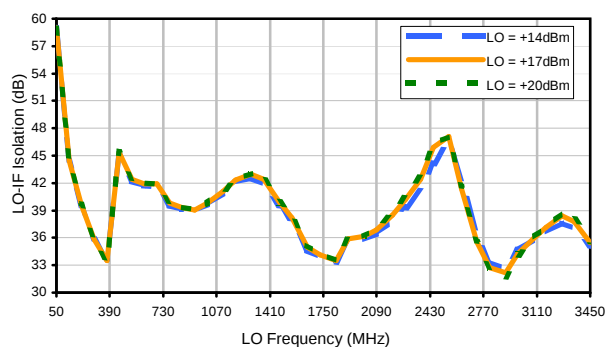


Typical Performance Curves

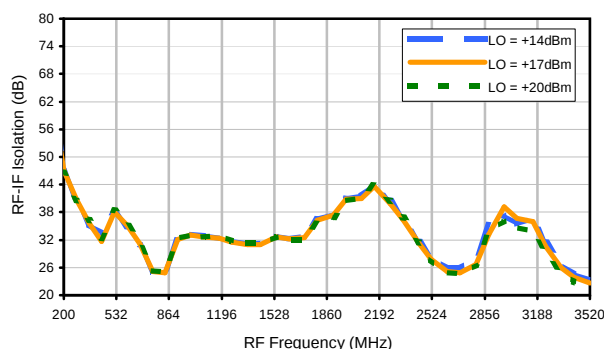
LO-RF Isolation



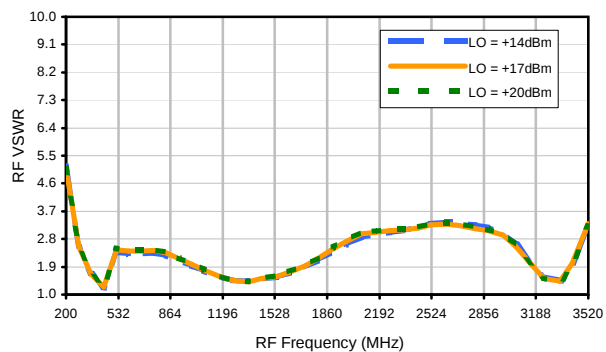
LO-IF Isolation



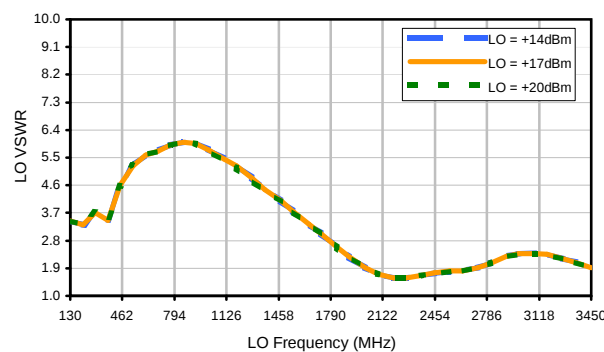
RF-IF Isolation



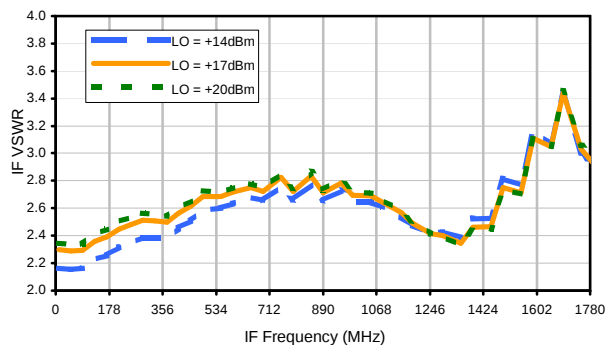
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	17	34	35	44	42	37	43	44	51
1	-	25	+0	37	13	43	32	46	49	49	57	68
2	58	50	51	58	67	59	65	68	71	73	67	74
3	>90	80	61	75	59	>81	61	>81	74	>81	>81	>81
4	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
5	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1320 MHz; -2.00 dBm.
LO IN: 1250 MHz; +17.00 dBm
IF OUT: 70 MHz; -8.83 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	27	43	45	53	50	51	54	59	57
1	-	25	+0	38	14	44	35	47	46	50	69	69
2	38	39	40	47	53	48	52	59	59	62	62	65
3	82	60	41	55	38	61	40	65	51	69	75	72
4	>90	73	78	66	83	68	85	70	75	78	76	86
5	>90	87	79	77	67	69	63	72	72	75	87	88
6	>90	>91	>91	86	>91	77	83	80	85	86	89	>91
7	>90	>91	>91	>91	87	87	81	80	76	80	84	85
8	>90	>91	>91	>91	>91	>91	>91	>91	>91	88	89	>91
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	89	87
10	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1320 MHz; 8.00 dBm.
LO IN: 1250 MHz; +17.00 dBm
IF OUT: 70 MHz; 1.05 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.