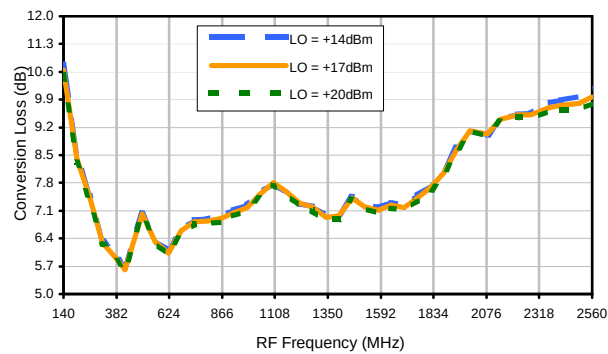


Frequency Mixer

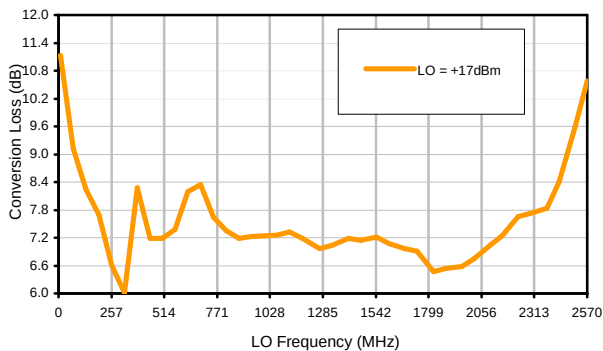
SYXM-ED13232B/1

Typical Performance Curves

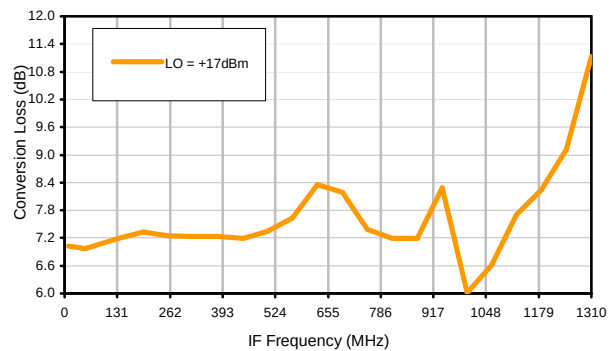
Conversion Loss @ IF=70MHz



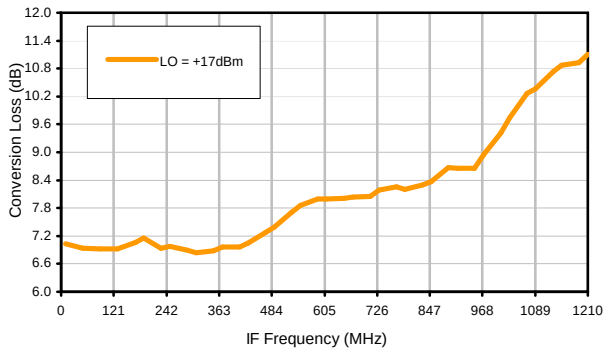
Conversion Loss vs. LO @ RF=1320.1MHz



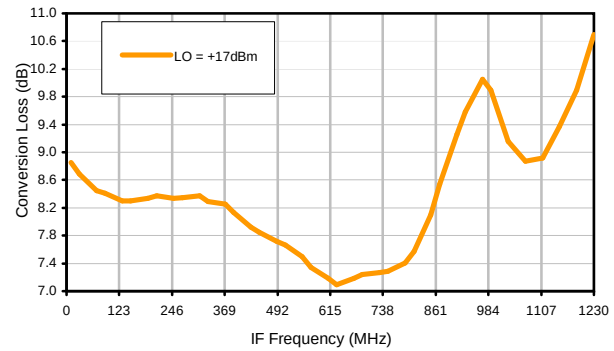
Conversion Loss vs. IF @ RF=1320.1MHz



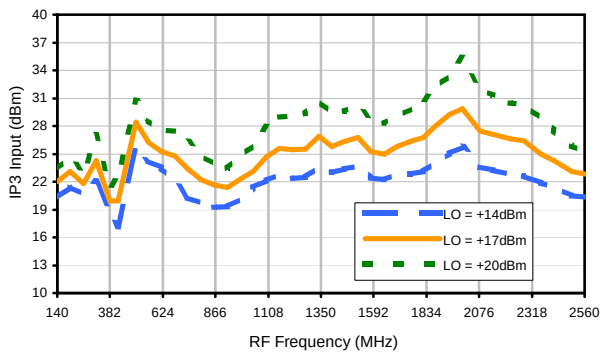
Conversion Loss vs. IF @ RF=710.1MHz



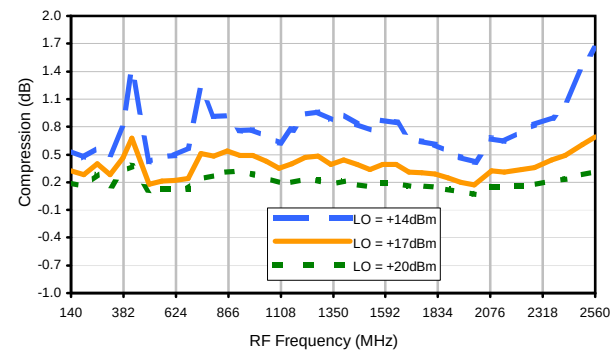
Conversion Loss vs. IF @ RF=1930.1MHz



IP3 Input



Compression @ RF IN=+13dBm



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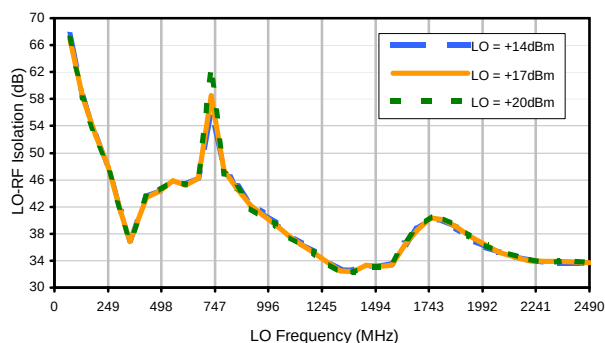


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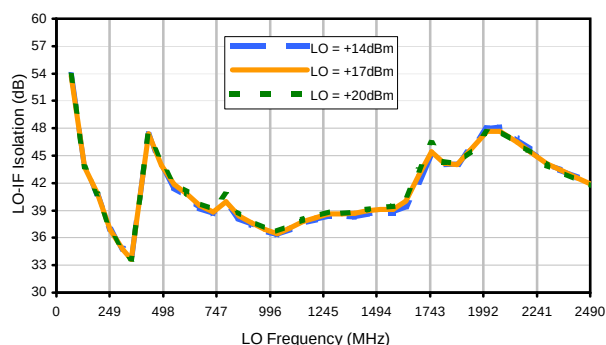


Typical Performance Curves

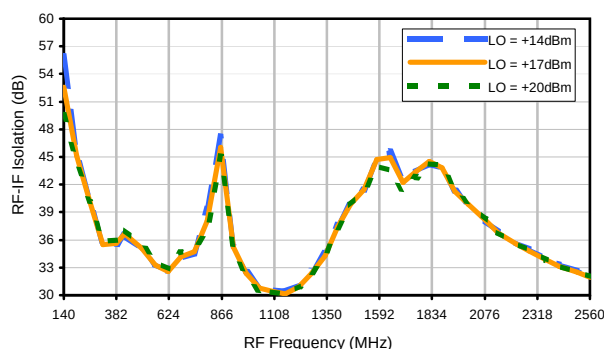
LO-RF Isolation



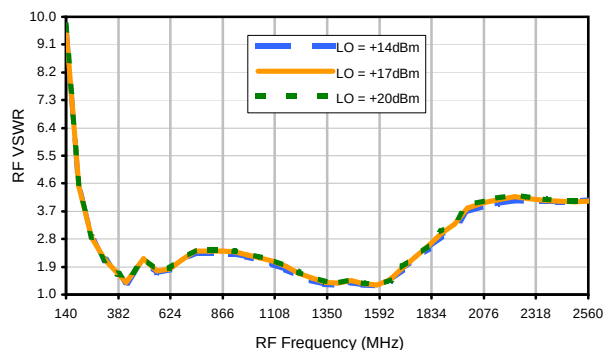
LO-IF Isolation



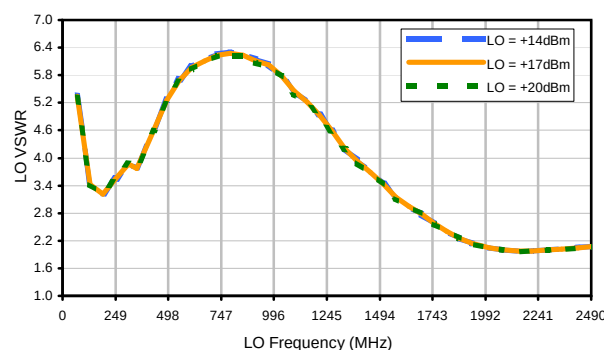
RF-IF Isolation



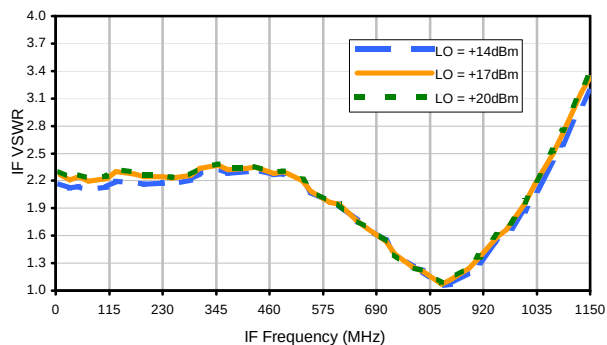
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	43	43	46	38	42	62	65	36	49
1	-	24	+0	39	31	42	43	56	40	58	43	54
2	64	76	48	55	49	70	73	77	60	74	64	75
3	>90	>81	74	75	61	73	81	>81	>81	>81	77	>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: 1000 MHz; -2.00 dBm.
LO IN: 970 MHz; +17.00 dBm
IF OUT: 30 MHz; -9.08 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	49	49	57	44	52	52	75	49	53
1	-	24	+0	42	32	42	45	56	42	56	45	59
2	44	63	36	47	43	62	64	71	53	63	58	69
3	72	65	52	60	40	63	58	69	63	72	60	84
4	>90	80	76	79	56	65	54	79	89	89	74	82
5	>90	89	>91	87	88	74	70	71	78	>91	81	88
6	>90	>91	>91	>91	>91	>91	75	81	76	>91	>91	>91
7	>90	>91	>91	>91	>91	>91	>91	85	75	86	>91	>91
8	>90	>91	>91	>91	>91	>91	>91	>91	86	85	89	>91
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
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: 1000 MHz; 8.00 dBm.
LO IN: 970 MHz; +17.00 dBm
IF OUT: 30 MHz; 0.84 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.