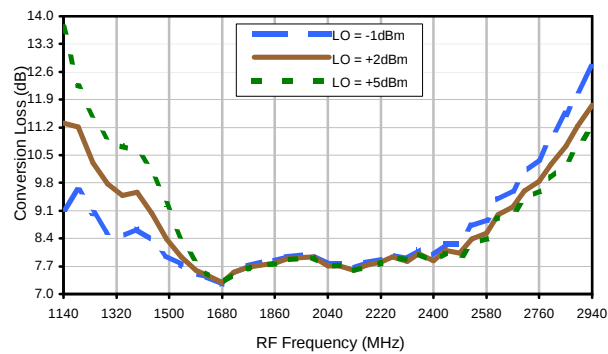


Frequency Mixer

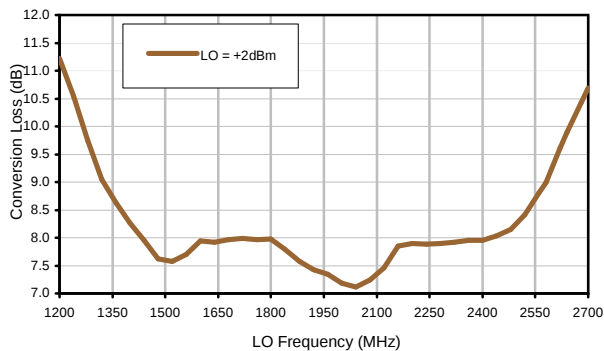
AMCY-ED11506A/1

Typical Performance Curves

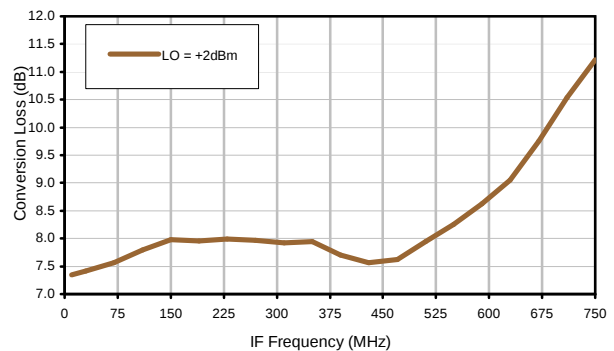
Conversion Loss @ IF=169MHz



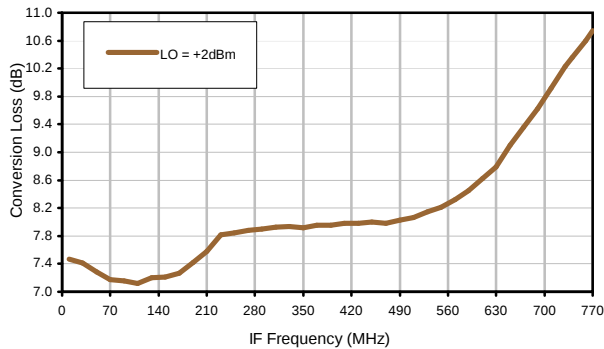
Conversion Loss vs. LO @ RF=1950.1MHz



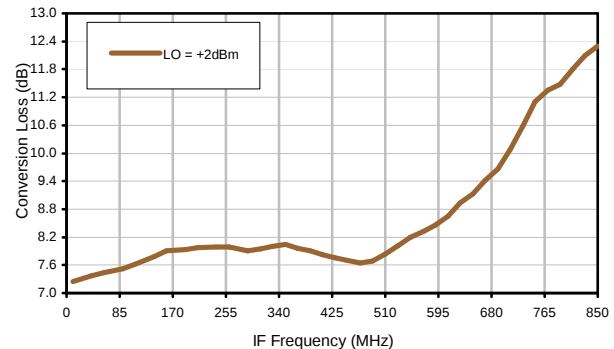
Conversion Loss vs. IF @ RF=1950.1MHz



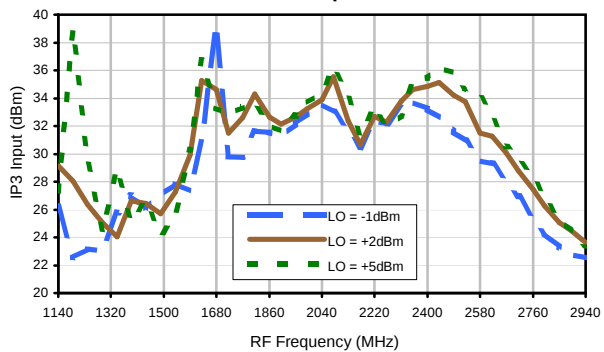
Conversion Loss vs. IF @ RF=1920MHz



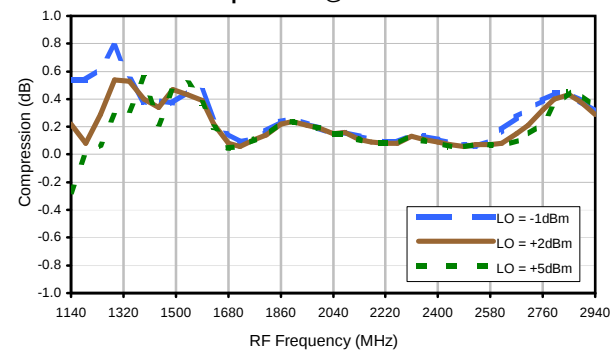
Conversion Loss vs. IF @ RF=1980.1MHz



IP3 Input



Compression @ RF IN=+15dBm



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REV. X2

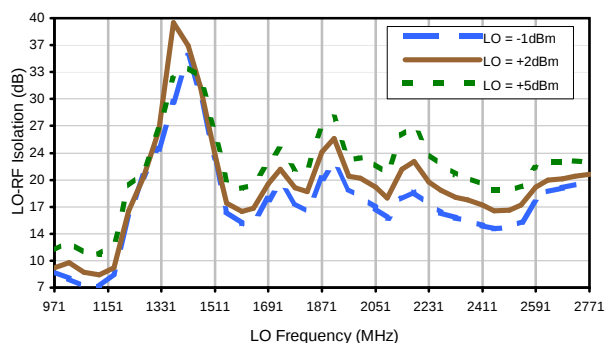
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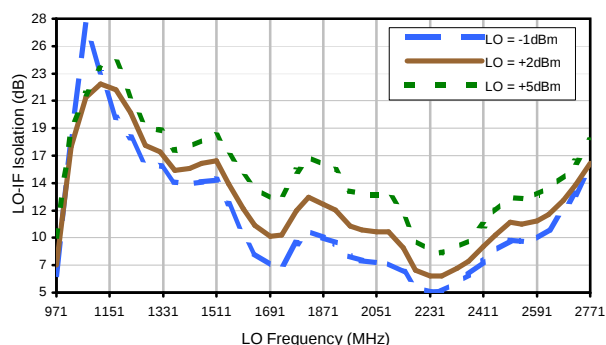
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Typical Performance Curves

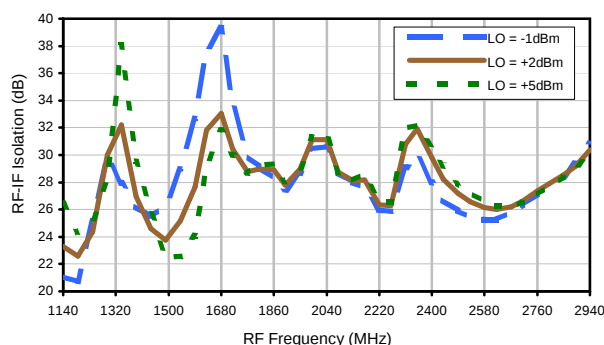
LO-RF Isolation



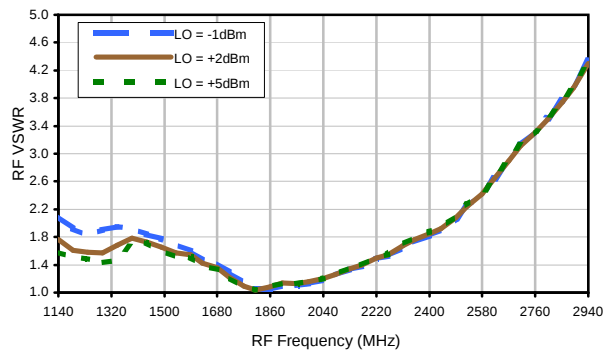
LO-IF Isolation



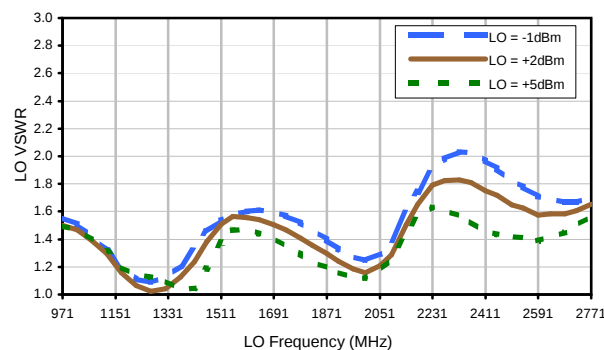
RF-IF Isolation



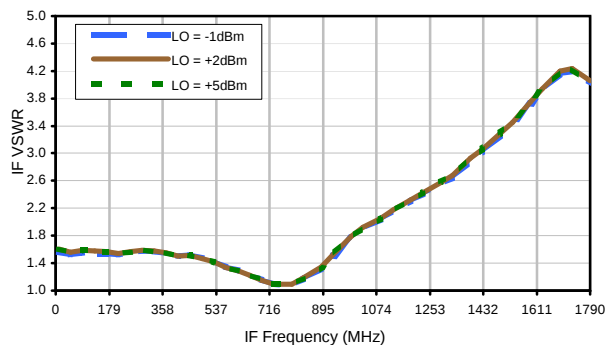
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	13	13	20	27	22	40	72	57	50
1	-	20	+0	22	28	31	50	55	54	49	55	72
2	59	62	52	48	64	63	71	69	71	64	67	73
3	95	80	73	85	69	74	89	79	>92	>92	>92	87
4	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
5	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
6	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
7	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
8	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1950 MHz; 0.00 dBm.
LO IN: 1781 MHz; +2.00 dBm
IF OUT: 169 MHz; -7.84 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	23	23	30	38	34	48	70	69	63
1	-	19	+0	21	28	31	48	54	59	51	56	77
2	38	52	41	37	50	55	60	57	61	56	57	66
3	65	60	52	62	47	53	70	60	94	72	78	67
4	90	90	71	74	69	64	71	81	72	89	97	84
5	>100	82	90	92	86	86	77	76	80	84	100	79
6	>100	87	89	84	89	83	80	76	74	85	88	>102
7	>100	>102	98	91	>102	>102	97	>102	>102	85	98	99
8	>100	>102	>102	94	>102	>102	>102	102	>102	94	94	100
9	>100	>102	>102	>102	>102	>102	>102	>102	>102	>102	98	97
10	>100	>102	>102	>102	>102	>102	>102	>102	>102	>102	>102	>102
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1950 MHz; 10.00 dBm.
LO IN: 1781 MHz; +2.00 dBm
IF OUT: 169 MHz; 2.07 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.