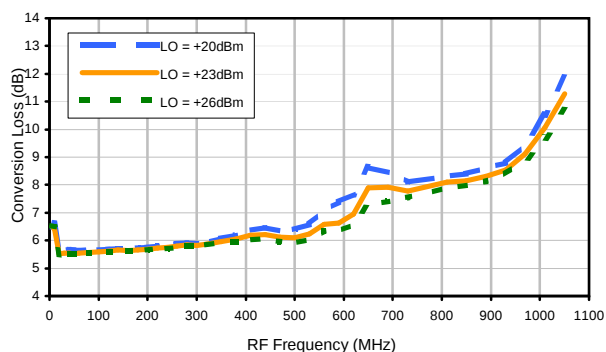


Frequency Mixer

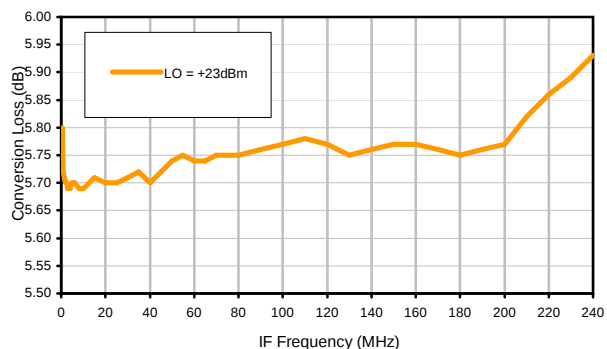
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Typical Performance Curves

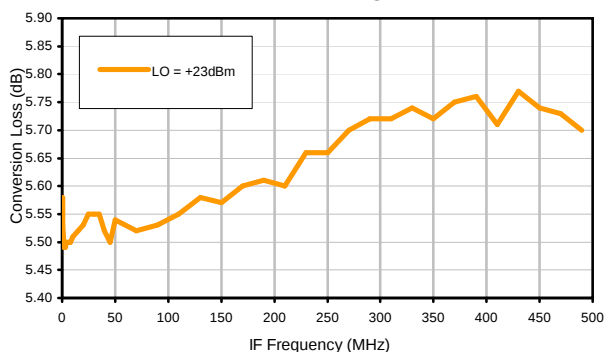
Conversion Loss @ IF=30MHz



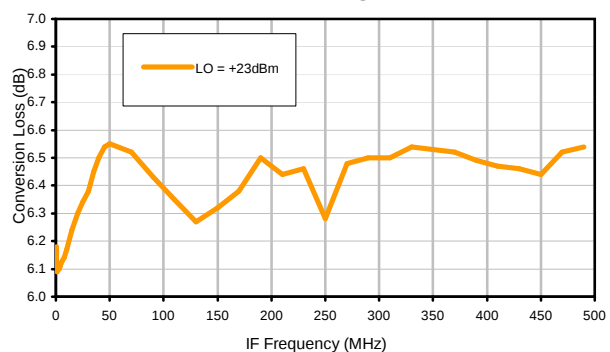
Conversion Loss vs. IF @ RF=250.1MHz



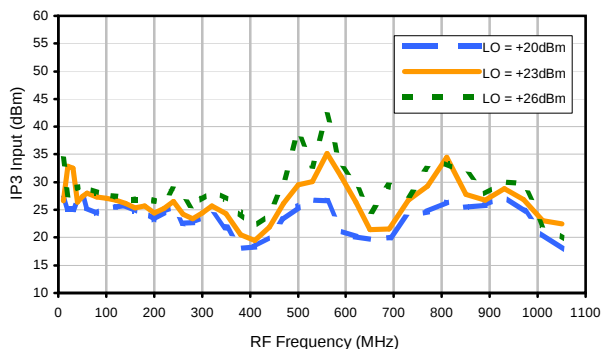
Conversion Loss vs. IF @ RF=10.1MHz



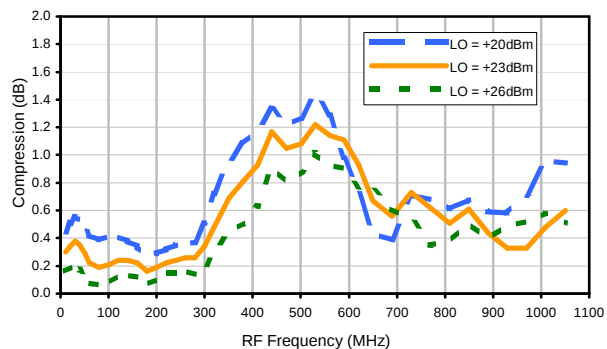
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input



Compression @ RF IN=+15dBm



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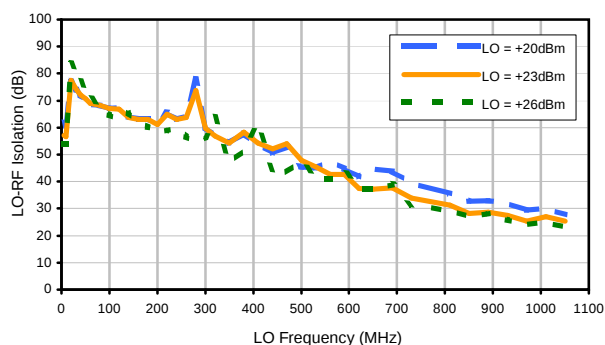


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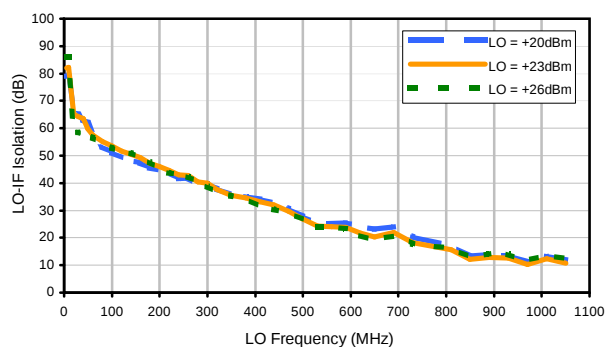


Typical Performance Curves

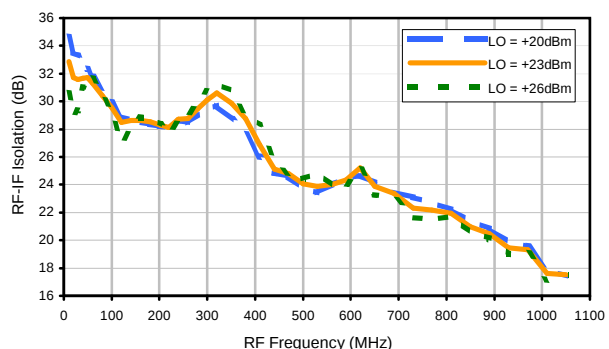
LO-RF Isolation



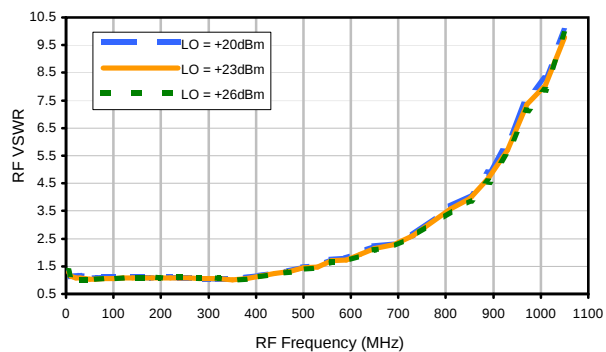
LO-IF Isolation



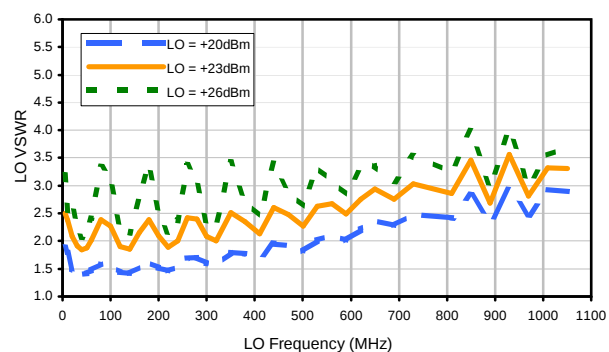
RF-IF Isolation



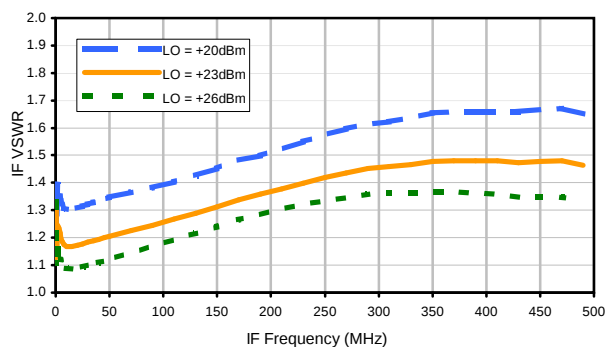
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	27	14	30	17	38	25	32	25	38
1	-	27	+0	32	11	36	23	41	29	47	41	47
2	98	70	49	66	49	66	51	66	62	74	62	74
3	109	76	60	79	60	82	60	78	68	86	69	85
4	>123	95	87	98	85	95	85	94	86	100	94	103
5	>122	112	99	103	95	102	94	103	94	103	103	111
6	>124	>123	115	>118	105	116	105	114	104	113	108	120
7	>123	>124	>122	>124	>121	118	>122	>121	>122	>120	>123	>123
8	>123	>122	>122	>125	>122	>123	117	>122	119	>122	118	>124
9	>123	>121	>123	>123	>124	>122	>123	>123	>120	>123	>121	>122
10	>123	>122	>121	>123	>124	>123	>123	>123	>122	>122	>122	>121
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 250.1 MHz; .02.00 dBm.

LO IN: 280.01 MHz; +23.00 dBm

IF OUT: 29.91 MHz; -5.65 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	36	26	41	28	50	37	43	37	50
1	-	27	+0	32	11	37	24	43	30	48	40	51
2	85	68	43	66	43	64	44	59	56	65	53	60
3	98	59	48	66	46	67	45	60	54	63	62	72
4	118	81	63	85	62	77	61	73	63	80	74	82
5	>122	75	66	72	61	73	59	72	57	70	62	73
6	>123	88	84	82	86	80	77	82	74	90	76	91
7	>124	91	83	88	74	99	74	100	77	103	86	98
8	123	115	93	106	91	94	84	89	87	89	90	91
9	>124	108	101	106	95	114	84	97	81	95	81	98
10	123	108	109	111	109	110	104	105	95	112	94	106
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 250.1 MHz; 10.00 dBm.

LO IN: 280.01 MHz; +23.00 dBm

IF OUT: 29.91 MHz; 4.37 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.

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