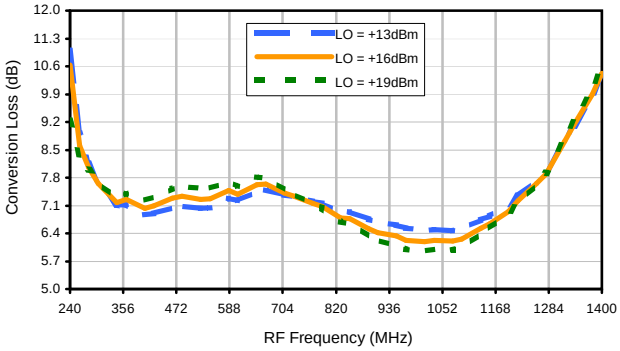
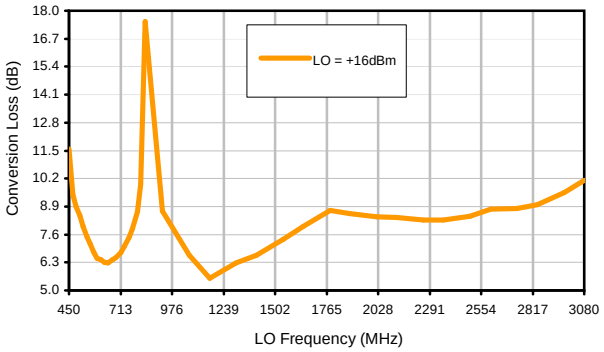
Frequency Mixer HJK-ED12922/1

Typical Performance Curves

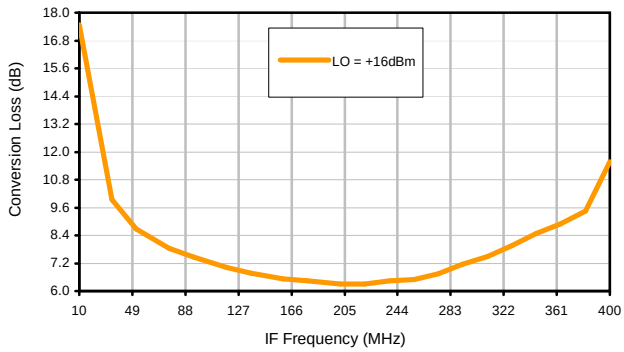
Conversion Loss @ IF=210MHz



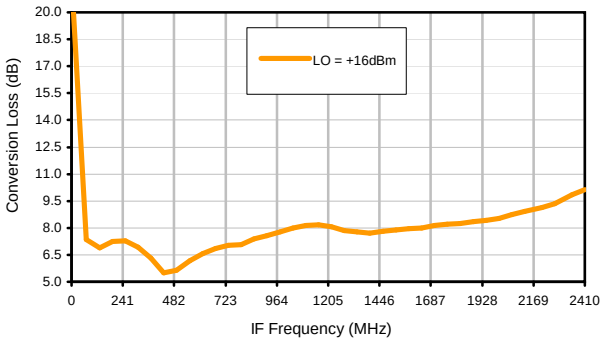
Conversion Loss vs. LO @ RF=850MHz



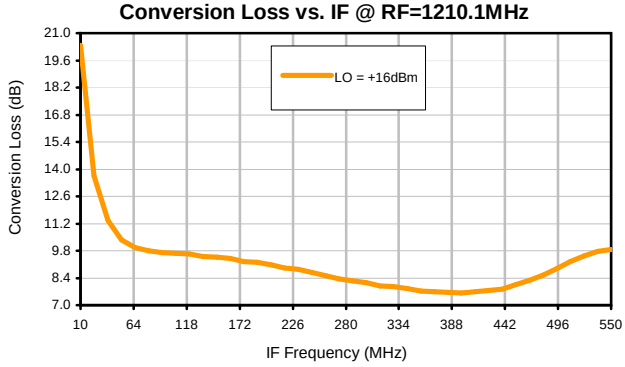
Conversion Loss vs. IF @ RF=850MHz



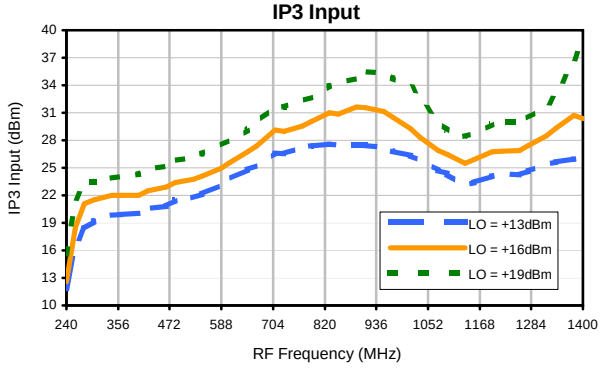
Conversion Loss vs. IF @ RF=489.9MHz



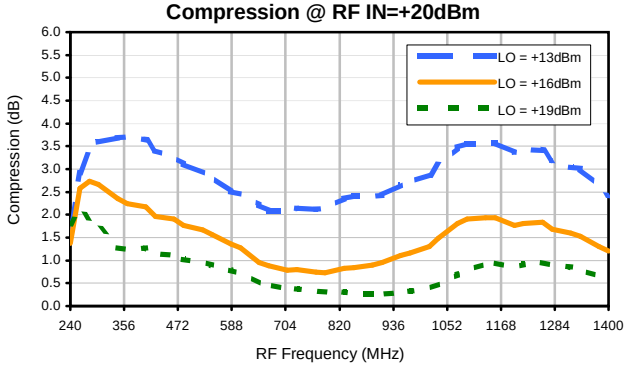
Conversion Loss vs. IF @ RF=1210.1MHz



IP3 Input



Compression @ RF IN=+20dBm



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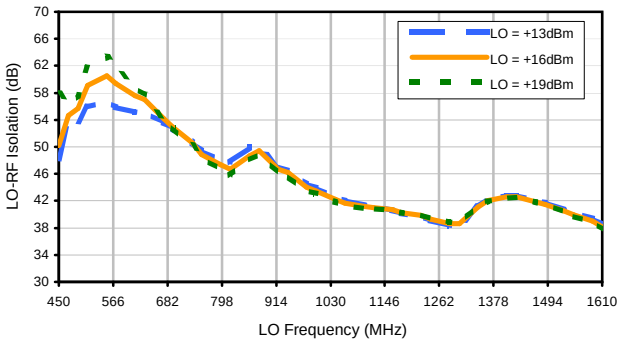
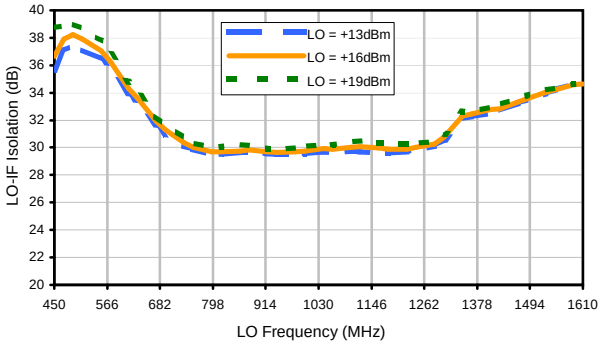
Typical Performance Curves

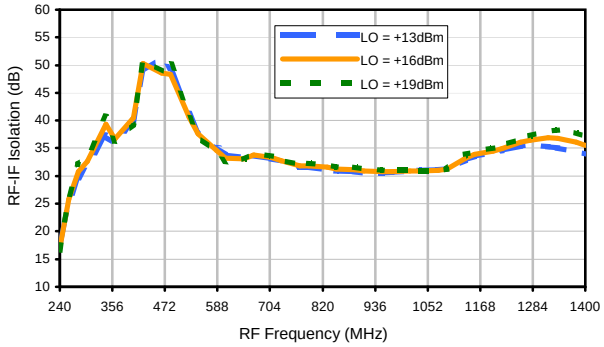
LO-RF Isolation



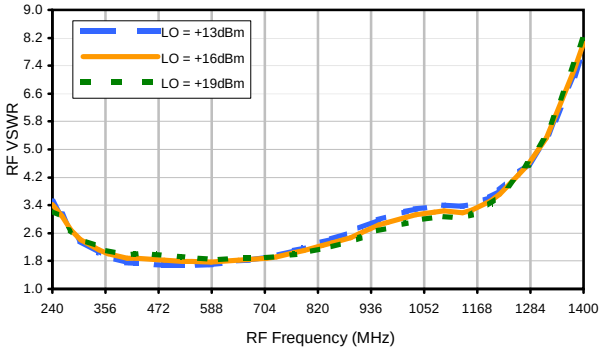
LO-IF Isolation



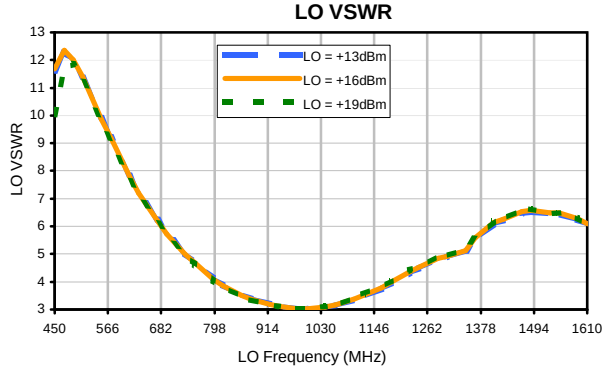
RF-IF Isolation



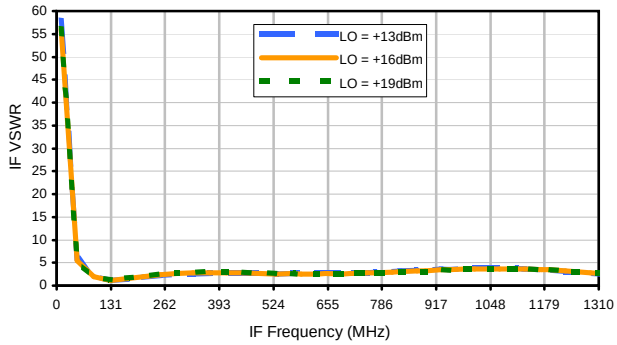
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	7	25	18	27	31	32	32	54	41	46
1	-	25	+0	26	14	39	22	41	49	56	48	49
2	63	56	60	52	63	55	63	56	66	80	73	70
3	>90	>83	64	>83	64	80	76	82	>83	>83	>83	>83
4	>90	>83	>83	>83	80	>83	>83	>83	81	>83	>83	>83
5	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
6	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 850 MHz; 0.00 dBm.**
LO IN: 1060 MHz; +16.00 dBm
IF OUT: 210 MHz; -6.72 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	18	34	28	37	41	43	41	59	49	63
1	-	25	+0	27	14	39	23	41	46	57	47	52
2	43	45	50	42	54	45	52	47	57	73	67	63
3	65	66	43	66	43	60	61	63	58	78	70	76
4	90	74	75	71	76	66	77	74	74	77	77	81
5	>90	86	86	80	79	>93	75	79	81	78	86	85
6	>90	>93	>93	>93	>93	>93	>93	93	>93	>93	90	>93
7	>90	>93	93	>93	88	>93	92	92	>93	>93	>93	>93
8	>90	>93	>93	>93	91	>93	>93	>93	>93	>93	>93	>93
9	>90	>93	>93	>93	>93	>93	>93	>93	91	>93	>93	>93
10	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 850 MHz; 10.00 dBm.**
LO IN: 1060 MHz; +16.00 dBm
IF OUT: 210 MHz; 3.2 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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