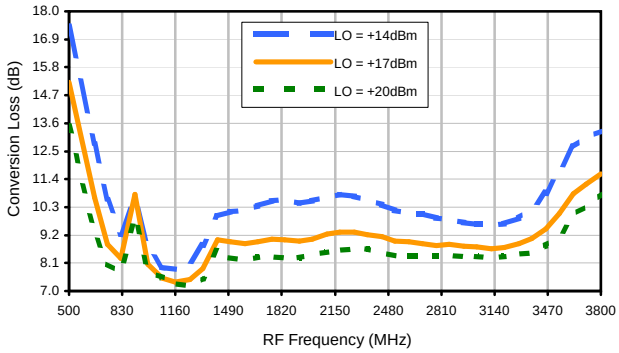
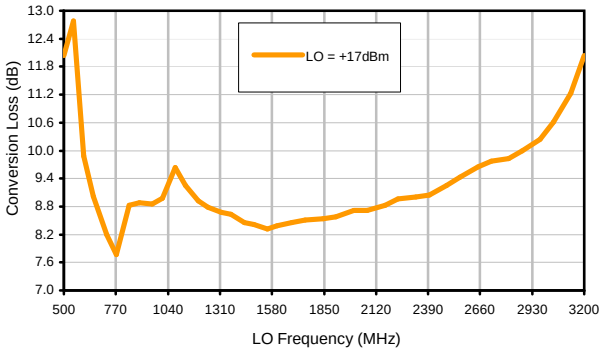
Frequency Mixer HJK-ED9549/1

Typical Performance Curves

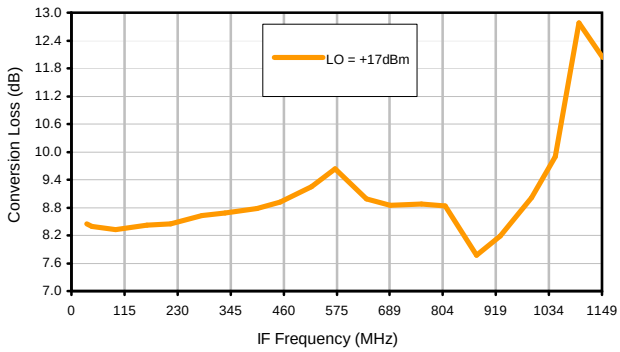
Conversion Loss @ IF=350MHz



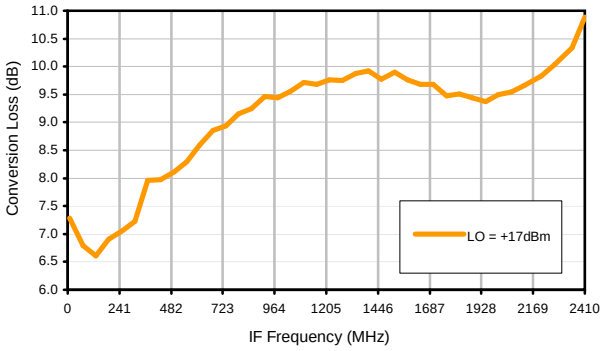
Conversion Loss vs. LO @ RF=1650MHz



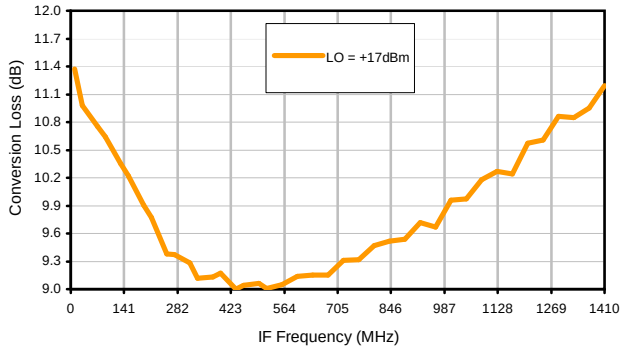
Conversion Loss vs. IF @ RF=1650MHz



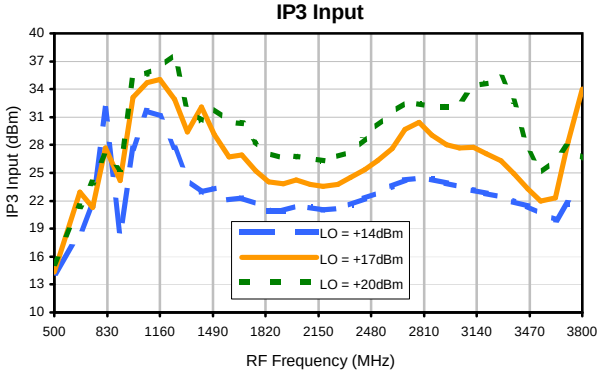
Conversion Loss vs. IF @ RF=690MHz



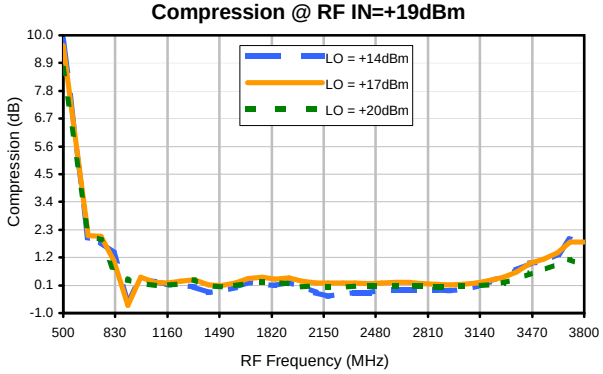
Conversion Loss vs. IF @ RF=3410.1MHz



IP3 Input



Compression @ RF IN=+19dBm



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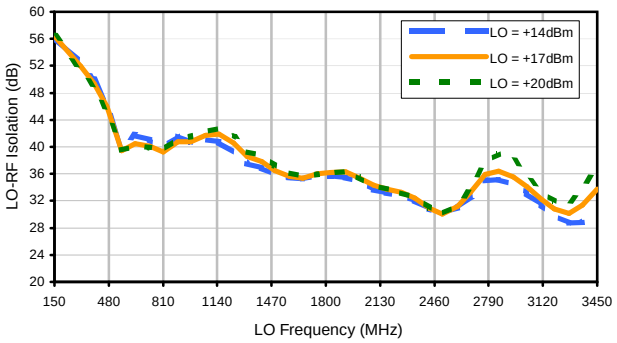
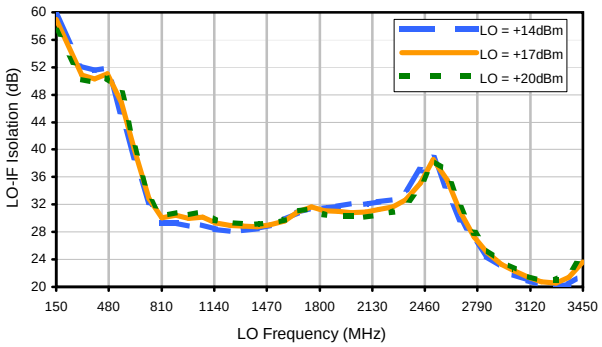
Typical Performance Curves

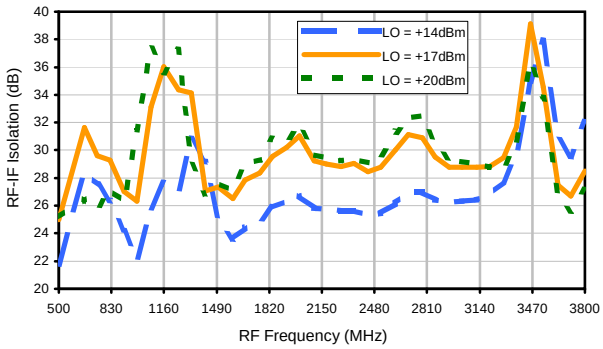
LO-RF Isolation



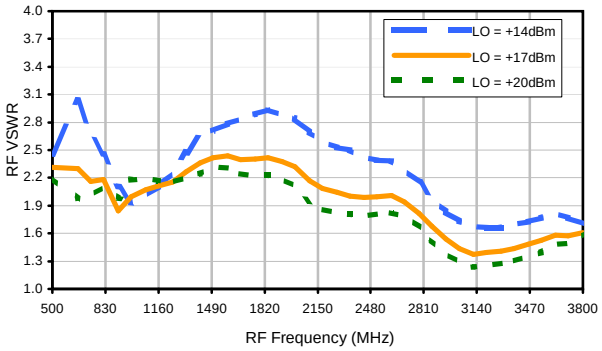
LO-IF Isolation



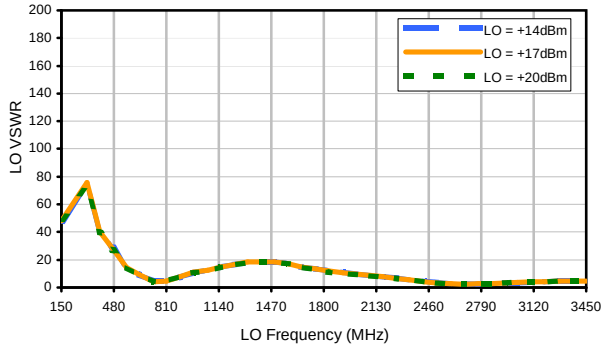
RF-IF Isolation



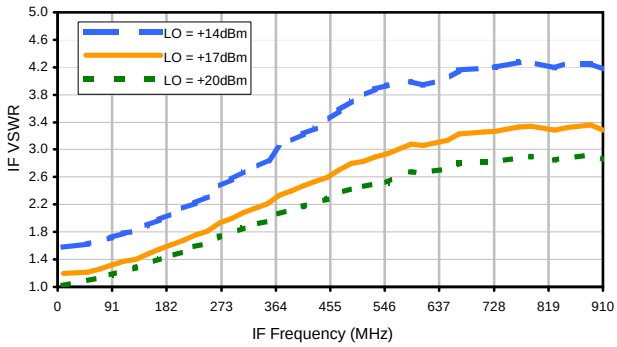
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	5	15	29	37	41	32	50	42	56	57
1	-	11	+0	28	15	33	25	39	48	56	52	54
2	70	35	49	59	45	48	50	52	52	54	52	65
3	>90	43	46	55	54	52	47	54	54	56	66	65
4	85	70	59	62	70	70	67	73	68	72	74	73
5	>90	73	67	66	69	69	>84	68	67	69	>84	77
6	>90	81	81	>84	>84	>84	81	76	81	82	>84	>84
7	87	80	82	81	80	81	>84	>84	76	79	82	>84
8	82	>84	80	>84	79	83	83	79	79	83	81	>84
9	86	83	77	76	77	>84	76	80	>84	>84	83	>84
10	>90	>84	77	>84	82	>84	79	81	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1650 MHz; 4.00 dBm.
LO IN: 1300 MHz; +17.00 dBm
IF OUT: 350 MHz; -6.34 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	16	26	40	45	59	48	53	54	67	56
1	-	14	+0	28	16	43	30	47	57	59	74	72
2	49	27	38	48	41	43	48	46	54	58	70	66
3	89	37	33	47	32	43	32	43	43	48	52	62
4	>90	57	55	47	61	54	51	65	59	59	62	65
5	90	65	59	51	67	58	46	61	47	55	53	58
6	86	65	71	72	69	67	65	70	63	72	66	76
7	85	76	81	68	74	71	60	73	56	73	52	72
8	>90	70	78	73	80	80	82	74	73	74	73	74
9	87	78	77	69	93	82	87	86	67	74	65	75
10	82	91	82	82	77	86	89	88	90	>94	85	78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1650 MHz; 14.00 dBm.
LO IN: 1300 MHz; +17.00 dBm
IF OUT: 350 MHz; 4.13 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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