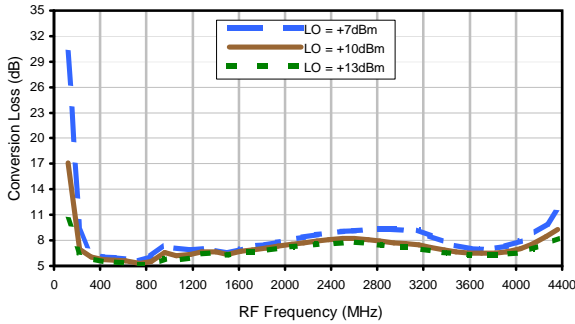


Frequency Mixer

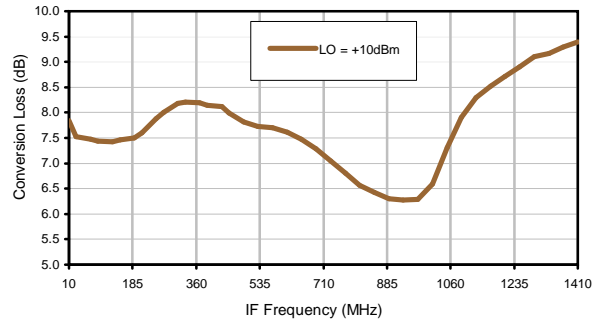
ADE-R30WLH+

Typical Performance Curves

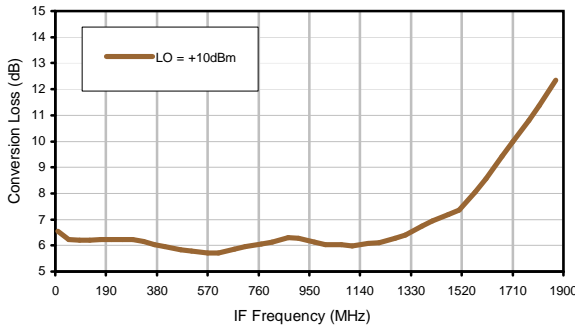
Conversion Loss @ IF=30 MHz



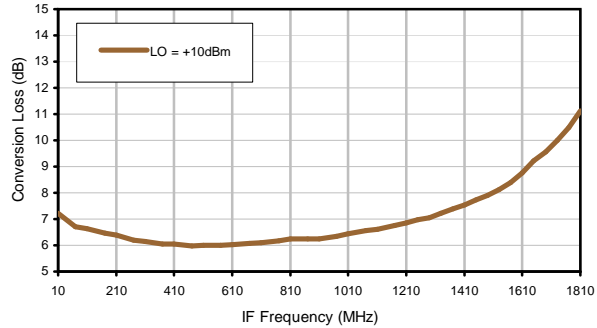
Conversion Loss vs. IF @ RF=2010.1 MHz



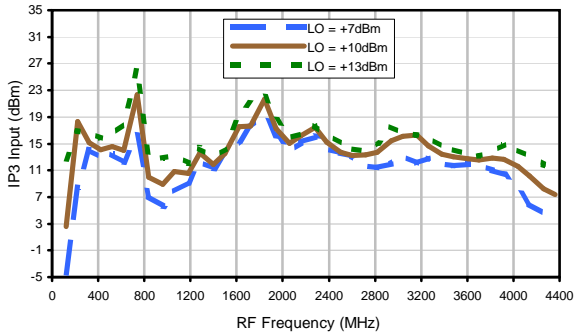
Conversion Loss vs. IF @ RF=289.9 MHz



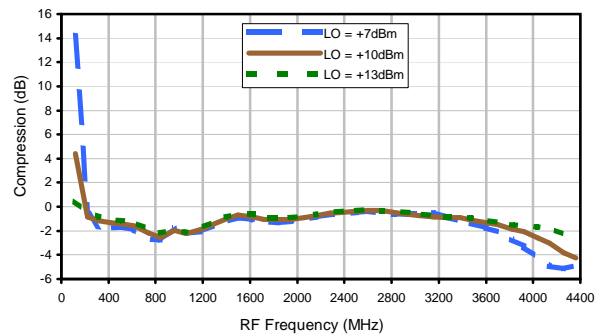
Conversion Loss vs. IF @ RF=4010.1 MHz



IP3 Input



Compression @ RF IN = +5 dBm



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Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant

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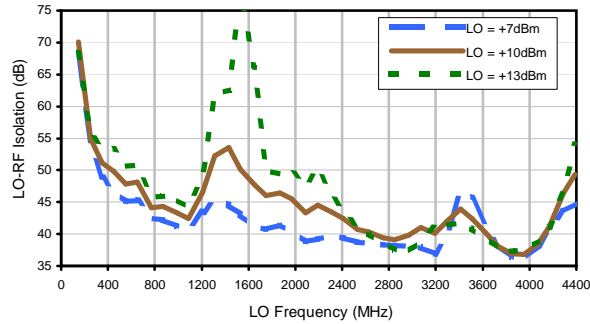


The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

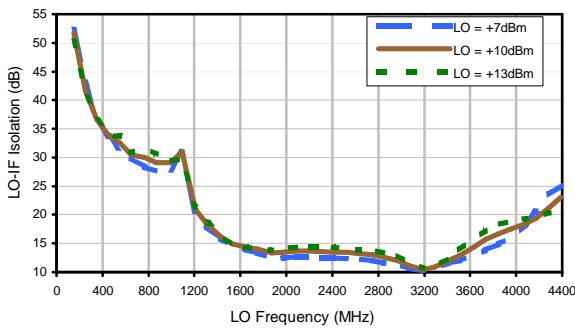


Typical Performance Curves

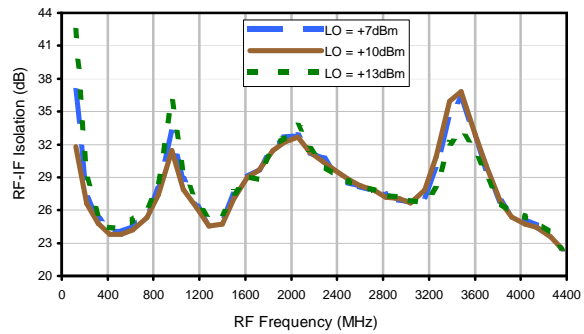
LO-RF Isolation



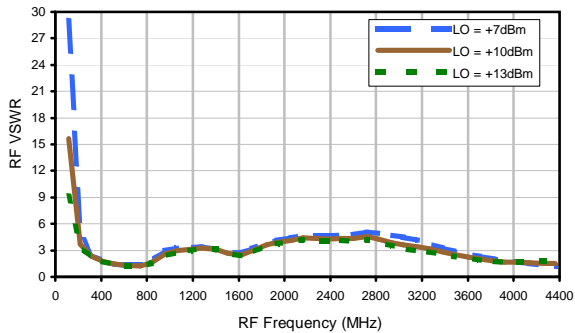
LO-IF Isolation



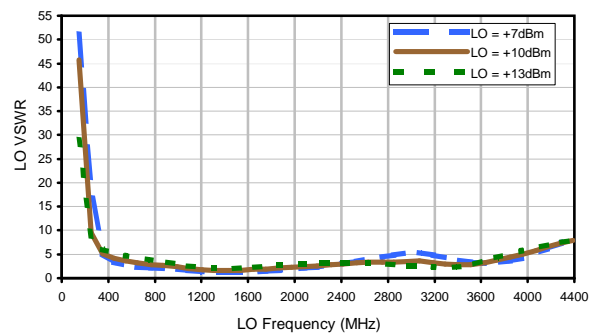
RF-IF Isolation



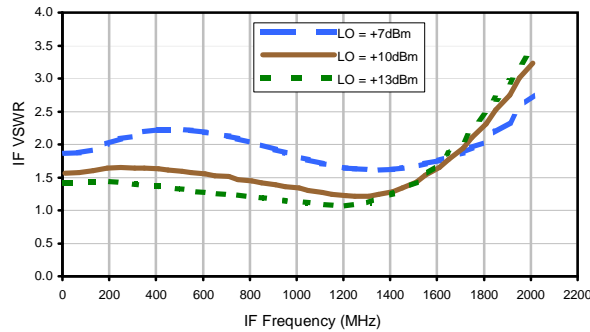
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+14	24	4	30	16	46	30	45	49	52
1	-	24	+0	44	23	41	34	48	41	52	40	60
2	77	60	43	54	45	62	46	56	50	64	58	61
3	> 90	> 72	> 72	> 72	68	> 72	69	> 72	62	> 72	70	> 72
4	> 90	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72
5	> 90	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72
6	> 90	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72
7	> 90	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72
8	> 90	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72
9	> 90	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72
10	> 90	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72	> 72
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2150.00 MHz; -10.00 dBm.
 LO IN: 2180.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -18.12 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+5	34	14	40	29	56	48	68	56	79
1	-	24	+0	46	23	42	40	54	46	63	54	78
2	58	51	34	46	36	71	39	59	43	64	55	76
3	> 90	53	47	53	48	60	54	65	49	62	61	71
4	> 90	65	68	63	55	56	60	61	60	61	59	69
5	> 90	77	65	> 82	79	66	68	71	70	72	65	73
6	> 90	81	> 82	77	> 82	73	72	67	> 82	71	78	69
7	> 90	> 82	> 82	> 82	81	> 82	> 82	77	78	> 82	79	81
8	> 90	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82	75	> 82	80
9	> 90	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82
10	> 90	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82	> 82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2150.00 MHz; .00 dBm.
 LO IN: 2180.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -8.24 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.