



3.0MHz High Efficiency Low IQ Synchronous Boost

EVAL Kit Physical Contents

Item #	Description	Included
1	KTC2110 EVAL fully assembled PCB in Anti-static bag	1
2	Hard copy for the Quick Start Guide, 1 page (A4 or US Letter)	1
3	EVAL Kit box	1

QR Links for Documents

IC Landing Page	EVAL Kit Landing Page
 https://www.kinet-ic.com/ktc2110/	 https://www.kinet-ic.com/ktc2110ecaa-mmeev02/

Note: The full EVAL Kit Manual is available for download on the EVAL Kit Landing Page.

User-Supplied Equipment

Required Equipment

1. Bench Power Supply for VIN – 6V and 3A as needed for the intended application.
2. Digital Multimeter – used to measure input/output voltages and currents.
3. Load – either power resistors, an E-Load, or an actual system load.

Quick Start Procedures

1. Check the Jumpers for default setting.
2. Connect one pair of power cables to the connector of EVAL Kit at VIN and GND.
3. Before connecting the EVAL Kit to the VIN bench supply, turn on the supply and adjust the voltage as close to 0V as possible. Then turn off the supply. While off, connect the power cables ends to the VIN bench supply.
4. Turn on the VIN bench supply and very slowly ramp its voltage to an appropriate voltage, such as 3.6V. While ramping VIN slowly, use the bench supply's output current indication (or a digital multimeter) to monitor the VIN current. If the current becomes high, reduce the VIN voltage quickly to prevent damage. Then inspect the setup for any wiring errors.
5. To hardware shutdown the regulator, simply use a jumper at P1 to connect EN to GND.
6. Connect a voltage meter to the output K_VOUT and GND test pins, it should measure the voltage of the boost regulator, which is specified in the datasheet.
7. To select Pass Through mode, set jumper P1 with EN = GND, and set jumper P2 with PT = VIN.
8. Measure VOUT voltage, it should be close to VIN voltage.