

Kinetic Technologies KTS1898A 6ARMS VBUS ISINK Load Switch User Guide

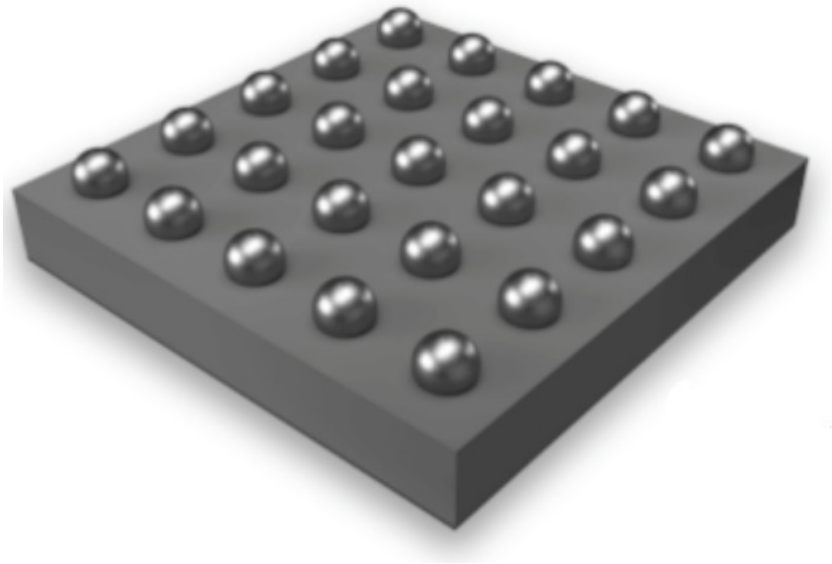
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KTS1898A 6ARMS VBUS ISINK Load Switch



Product Information

Specifications

- **Model:** KTS1898A
- **Function:** 6ARMS VBUS ISINK Load Switch for 28V EPR Systems
- **Contents:**
 1. KTS1898A EVAL fully assembled PCB
 2. XT30-to-Banana power cables, red/black pair (2 pairs)
 3. Anti-static bag
 4. Quick Start Guide, printed 1 page (A4 or US Letter)
 5. EVAL Kit box



Product Usage Instructions

Quick Start Procedures

1. **Set Jumpers to default:** !E!!N! = L
2. Connect one pair of XT30-to-Banana power cables to the XT30 connector at VIN and GND (right edge of EVAL Kit).
3. Before connecting the EVAL Kit to the VIN bench supply, turn on the supply and adjust the voltage as needed.

Item #	Description	Quantity
1	KTS1898A EVAL fully assembled PCB	1
2	XT30-to-Banana power cables, red/black pair	2 pairs
3	Anti-static bag	1
4	Quick Start Guide, printed 1 page (A4 or US Letter, this page)	1
5	EVAL Kit box	1

QR Links for Documents

IC Landing Page	EVAL Kit Landing Page
 https://www.kinet-ic.com/KTS1898/	 https://www.kinet-ic.com/KTS1898aeoae-mmev01

User-Supplied Equipment

1. Bench Power Supply for VIN – 5V/9V/12V/15V/20V/28V/32V and 0.5A/1.5A/3A/5A/6A, as needed for the intended application. For testing over-voltage protection and withstand voltage, a 35V adjustable bench power supply is preferred.
2. Digital Multimeter – one or more, used to measure input/output voltages and currents.

Quick Start Procedures

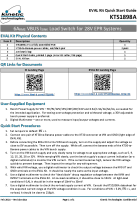
1. Set Jumpers to default: !!EN!! = L
2. Connect one pair of XT30-to-Banana power cables to the XT30 connector at VIN and GND (right edge of EVAL Kit).
3. Before connecting the EVAL Kit to the VIN bench supply, turn on the supply and adjust the voltage as close to 0V as possible. Then turn off the supply. While off, connect the banana ends of the XT30-to-Banana power cables to the VIN bench supply.
4. Turn on the VIN bench supply and very slowly ramp its voltage to an appropriate voltage, such as 5, 9, 12, 15, 20, 28 or 32V. 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. With valid VIN voltage, use a digital multimeter to check the output voltage between the KVOUT and GND terminals on the EVAL Kit. It should be nearly the same as the input voltage.
6. Use a digital multimeter to check the "ideal diode" droop regulation voltage between the KVIN and KVOUT terminals on the EVAL Kit. At no-load conditions, it should be close to 15mV. At light-load conditions (<1A), it should be in the range of 10mV to 30mV.
7. Use a digital multimeter to check the no-load supply current at VIN. Consult the KTS1898A datasheet for the expected current range at the VIN voltage condition in use. For conditions of VIN = 5.0V, !!EN!! = L, and no-load, it should be close to 218μA.

FAQ

Frequently Asked Questions

- **How do I reset the EVAL Kit to its default settings?**
 - To reset the EVAL Kit to its default settings, locate the reset button on the PCB and press it for 5 seconds.
- **Can I use a different power cable instead of the provided XT30-to-Banana cables?**
 - Yes, you can use a different power cable as long as it is compatible with the XT30 connector specifications.
- **What is the maximum voltage rating for this load switch?**
 - The load switch is rated for a maximum voltage of 28V for EPR systems.

Documents / Resources

	<p>Kinetic Technologies KTS1898A 6ARMS VBUS ISINK Load Switch [pdf] User Guide KTS1898A 6ARMS VBUS ISINK Load Switch, KTS1898A, 6ARMS VBUS ISINK Load Switch, V BUS ISINK Load Switch, ISINK Load Switch, Load Switch</p>
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References

- [KTS1898 5ARMS 28V VBUS Current-Sink Protection Load Switch](#)
- [KTS1898AEOAE-MMEV01 - Kinetic Technologies](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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