12W Output Power, Programmable Frequency up to 1MHz Step-Up Converter

DESCRIPTION

The ETA1013 is a high efficiency step-up converter that is capable of delivering up to 12W of output power. Its switching frequency can be externally programmed up to 1MHz. Current mode control makes it suitable with low ESR small ceramic output capacitor and provides small output current. Capable of delivering up to 2.1A of output current at 5V output from input down to 3V, it is an ideal solution for applications with Li-Ion batteries, such as portable power banks.

ETA1013 is housed in an ESOP8 package.

FEATURES

- **12W Output Power**
- **2.1A Output Current at 5V Output**
- **Up to 93% efficiency**
- **VIN range from 2.7V to 6V**
- Current Mode control
- Cycle-by-Cycle Current Limit
- UVLO and Thermal shutdown
- ESOP8 Package

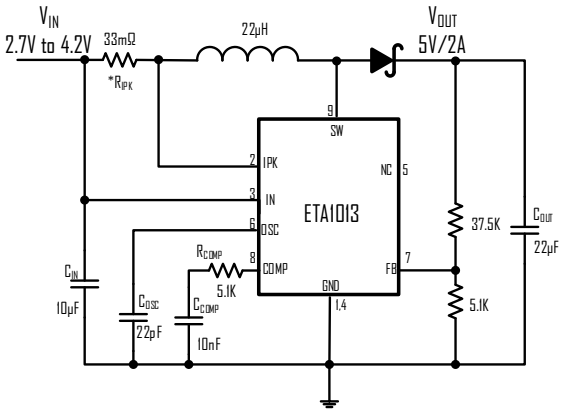
APPLICATIONS

- Portable Power Bank with large capacity
- STB DVB-S LNB Power
- Battery powered Hi-Fi Bluetooth Speakers
- USB and Battery powered devices

ORDERING INFORMATION

PART #	PACKAGE PIN	TOP MARK
ETA1013E8A-T	ESOP8	ETA1013- Product Number YWWPL- Date Code

TYPICAL APPLICATION



*Note: the 33mΩ R_{IPK} can be replaced by a PMOSFET with similar on-resistance, which serves as a switch to turn off the system to save standby current.