

# HA42A Series

## Gate Drive Transformer

### Fast Facts



#### Features:

- -40°C to +125°C operation
- Ambient temperature, maximum to +85°C
- Temperature rise, maximum 40°C
- RoHS compliant
- AEC-Q200 certified

---

#### Description:

The HA42A series gate drive transformer is a miniature surface mount design solution targeted for high reliability automotive industry applications. Gate drive transformers are used to deliver the controlling pulses while providing isolation between the MOSFET and the controlling drive circuit. It is mechanically robust with lower leakage inductance which gives it the advantage of much lower turn on and turn off delay time. The HA42A design has higher current capability and lower temperature rise performance. It is ideal for high efficiency of battery management system application where size is critical and AEC-Q200 certification assures performance and reliability levels that automotive applications demand.

#### Applications:

- Automotive
  - HV/EV battery management system
- Industrial
  - Switch mode power supply

**TT Electronics is a global provider of engineered electronics for performance critical applications.**

Our magnetic components, under the BI Technologies brand, have been used in numerous applications since we introduced our initial range of wound transformers and inductors to the power conversion market in 1987. Our current range of magnetic components includes both power and signal products. We offer a range of transformers, inductors, and chokes for applications in transportation, industrial, medical, and aerospace/defense fields.

---

#### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.