

AUTOMOTIVE GRADE

Bourns Releases AEC-Q200 Compliant, Automotive Grade 2 Watt Gate Driver Transformer

Model HVMA03F4A-LP8S

Riverside, California – October 3, 2024 – Bourns Custom Magnetics Product Line is introducing the Model HVMA03F4A-LP8S Gate Driver Transformer. This transformer is AEC-Q200 compliant and automotive grade.

The Model HVMA03F4A-LP8S Transformer is designed with 8 mm creepage distance for an 800 volt working voltage that is ideal for new EV and Green Energy applications that require high isolation voltage. Typical applications include transistor gate drive power, battery management circuit powering, and isolated power across separate voltage systems. This transformer has a wide operating temperature range from -40 °C to +125 °C. The high creepage, SMT package has a unique small footprint for such a large working voltage.

This model is designed for a switching frequency of 400 kHz and will provide an output power of 2 watts. It can be used with many gate driver controller ICs that have either fixed or variable frequency and can be customized for other output voltages and applications. Please contact Bourns for additional technical support and IC compatibility.

Bourns® Model HVMA03F4A-LP8S Gate Driver Transformer Characteristics:

Model	Output Power	Primary Inductance @ 100 kHz / 0.1 V	Creepage Distance	Rated Working Voltage	Operating Temperature
HVMA03F4A-LP8S	2 Watts	4 µH ± 15 %	8 mm	800 Volts	-40 °C to +125 °C

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For additional product details, visit the Bourns website at www.bourns.com/products/magnetic-products/transformers-power-aec-q200-compliant. For more information on Bourns® Magnetics, check out our additional available resources in the Bourns® Magnetics Technical Library. Should you have any questions, please contact Bourns Customer Service/Inside Sales.

Features

- 2 watt gate driver transformer
- Switching frequencies 400 kHz
- High working voltage of 800V
- SMT transformer with 8 mm creepage
- RoHS* and REACH compliant
- AEC-Q200 compliant and automotive grade
- Operating temperature: -40 °C to +125 °C

Applications

- Transistor gate drive power
- Inverter circuits
- Battery Management Systems (BMS)
- Motor drives
- Power delivery

* *RoHS Directive 2015/863, Mar 31, 2015 and Annex.*