



NEW PRODUCT RELEASE

MAGNETICS

ADVANCE NOTICE



Bourns Releases AEC-Q200 Compliant, Automotive Grade 3-Watt Gate Driver Transformer

Model HVMA03F45A-ST8S

Riverside, California - TO BE RELEASED June 19, 2026 – Bourns Custom Magnetics Product Line has released the Model HVMA03F45A-ST8S, a 3-watt gate driver transformer. The model is automotive grade and AEC-Q200 compliant.

The Model HVMA03F45A-ST8S has an 8 mm creepage distance and an 850 V working voltage. Automotive applications include transistor gate drive power, battery management systems, and isolated power between separate voltage systems in hybrid and electric vehicles. The operating temperature range is -40 °C to +125 °C (Class F). The SMT package uses a Standard ER9.5 core.

The switching frequency range is 50 kHz to 380 kHz. Output power is up to 3 watts. The transformer is compatible with fixed-frequency and variable-frequency gate driver controller ICs. Bourns can customize the model for other output voltages and applications upon request. Contact Bourns for technical support and IC compatibility.

Model	Output Power (W)	Primary Inductance @ 400 kHz / 1 V (μH)	Creepage Distance (mm)	Rated Working Voltage (V)	Operating Temperature (°C)
HVMA03F45A-ST8S	3	45	8	850	-40 to +125

For additional details on Bourns® magnetic products, visit the Bourns website at <https://www.bourns.com>. If you have questions or need additional information, please feel free to contact [Bourns Customer Service/Inside Sales](#).

Features

- 3-watt gate driver transformer
- 50 kHz to 380 kHz switching frequencies
- High working voltage of 850 V
- SMT transformer with 8 mm creepage
- Basic insulation per IEC 61558-2 & IEC 60664-1
- Operating temperature: -40 °C to +125 °C
- AEC-Q200 compliant
- RoHS compliant*
-  **AUTOMOTIVE**
GRADE

Applications

- Transistor gate drive power
- Inverter circuits
- Battery management systems
- Motor drives
- Power delivery

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

IC26047