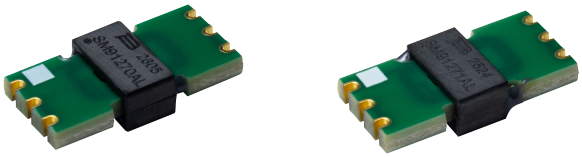
BOURNS®

# NEW PRODUCT RELEASE

MAGNETICS



# Bourns Releases New AEC-Q200 Compliant, Automotive Grade, Next-Generation Gate Driver Power Planar Transformers

## *Model SM91270AL and SM91271AL*

*Riverside, California - April 30, 2026* – Bourns Magnetics Product Line is pleased to introduce the Model SM91270AL and SM91271AL LLC Planar Transformers for Gate Driver applications.

These new transformers feature a planar structure (EE8.5 platform) to minimize size while providing high isolation, high efficiency and good EMI performance.

The Model SM91270AL and SM91271AL planar transformers were developed for use with the TI Model UCC25800 and MPS Model MPQ18913 for LLC applications, and the Maxim Model MAX25256 for full bridge applications. Bourns' fully automated manufacturing process helps ensures high quality and cost-effectiveness for these low-profile parts (below 3.5 mm height above the PCB) with a no base design structure. The models offer a working voltage of up to 850 VDC for reinforced insulation, a Hi-Pot isolation voltage of up to 6000 VDC and an extended operating temperature range of -40 °C to +125 °C. They provide a maximum output power of up to 5.4 W.

| Model | Size (mm) | Primary Inductance (µH) Min. | Leakage Inductance (µH ) Max. | Capacitance (pF) Max. | DCR (Ω) Max. | Turn Ratio (Np:Ns) | Working Voltage (VDC) |
|---|---|---|---|---|---|---|---|
| SM91270AL | 17.40 x 8.50 x 4.05 | 27.5 | 1.2 | 4.5 | 0.9 | 1 : 1 | 850 |
| SM91271AL | 17.40 x 8.50 x 4.05 | 21.0 | 0.9 | 4.5 | 0.7 – 0.9 | 7 : 8 | 850 |

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

- Reinforced insulation for a working voltage up to 850 VDC
- Hi-Pot: 6000 VDC, 1 mA, 60 s
- Design construction: IEC 60664-1 & IEC 62368-1, UL 62368-1 & IEC 62477-1
- Creepage distance >9 mm
- Clearance distance >9 mm
- Overvoltage Category II, Pollution Degree 2, up to 5 km above sea level, Material group I (CTI ≥ 600)
- AEC-Q200 compliant
- RoHS compliant*
- AUTOMOTIVE GRADE

### Applications

- Automotive traction inverter and motor control
- Automotive on-board charger (OBC), DC/DC converter
- GaN, IGBT and SiC gate transformer driver bias supply
- UPS and solar inverters
- EV charging station, DC fast charging station
- Industrial motors, elevators and escalators

### Additional Information

DATA SHEET | DATA SHEET | PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

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

IC26045

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