



Bourns Releases AEC-Q200 Compliant High Clearance / Creepage Distance Isolation Power Transformer Series

Model HCT Series

Riverside, California – February 6, 2020 – Bourns Inductive Components Product Line is introducing the High Clearance / Creepage Distance Isolation Power Transformer [Model HCT Series](#). These AEC-Q200 compliant high voltage isolation push-pull transformers are driven by 3.3 – 5 V input and deliver 3.3 – 15 V up to 350 mA output, configured in a variety of turns ratios in a compact size.

The transformers are designed to support isolated interface power for CAN, RS-485, RS-422, RS-232, SPI, I²C, and lower-power LANs in a range of applications such as Industry 4.0 and low/medium risk medical* (sensors, communication PHYs, RS-485, metering), circuits requiring low DC power and any application that requires isolation from potentially hazardous voltages (e.g., from a high voltage battery)

The Model HCT series is built with a ferrite toroid core for high coupling factor and efficiency. The reinforced isolation, 8 mm minimum clearance/creepage distance, and 4.2 kV @ 60 seconds voltage withstanding provide an elevated degree of isolation from high voltage hazards.

These transformers are designed for isolation power supplies using Texas Instruments SN6501 and SN6505B isolation transformer drivers, are compatible with spread spectrum modulation for reduced emissions, and are compliant with IEC 60950-1, IEC 62368-1, IEC 60664-1 and AEC-Q200 standards.

Features

- Low profile (6.5 mm) housing with >8 mm clearance and creepage
- Complies with IEC 60950-1, IEC 62368-1 and IEC 60664-1
- Reinforced insulation for working voltage of 800 V
- Designed for isolation power supplies using TI SN6501 and SN6505B isolation transformer drivers
- AEC-Q200 compliant
- RoHS compliant**

Applications

- RS-485
- CAN Interface
- Digital Input Modules
- RS-232 Isolation

Please visit Bourns' website at www.bourns.com for additional product details. If you have any questions, please contact Bourns [Customer Service/Inside Sales](#).

* Bourns[®] products have not been designed for and are not intended for use in "lifesaving," "life-critical" or "life-sustaining" applications nor any other applications where failure or malfunction of the Bourns[®] product may result in personal injury or death. See Legal Disclaimer Notice <http://www.bourns.com/docs/legal/disclaimer.pdf>.

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