



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

Model HCT Series

Riverside, California – TO BE RELEASED FEBRUARY 6, 2020 – Bourns Inductive Components Product Line is introducing the High Clearance / Creepage Distance Isolation Power Transformer Model HCT Series. These push-pull, high voltage isolation 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, 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 (3.3 V - 15 V @ 350 mA max.) 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 5 kV withstanding voltage provide an elevated degree of isolation from high voltage hazards.

The transformers are designed for isolation power supplies using TI SN6501 and SN6505B, are compliant with IEC 60950-1, IEC 62368-1, IEC 60664-1 and AEC-Q200 standards.

Features

- Toroid core for high coupling and low radiation
- 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
- 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.