

NEW PRODUCT RELEASE



Bourns Releases New High Clearance / Creepage Distance Isolation Power Transformers

Model HCTSM100304FL and HCTSM150102HL

Riverside, California – **June 7, 2022** – Bourns Magnetics Product Line is introducing the new Model <u>HCTSM100304FL</u> and <u>HCTSM150102HL</u> High Clearance / Creepage Distance Isolation Power Transformers. These high voltage isolation transformers are driven by 3.3 – 5 V input and deliver 3.3 – 15 V up to 350 mA output and can be configured in a variety of turns ratios if needed.

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 most applications that require isolation from potentially hazardous voltages (e.g., from a high voltage battery especially inside a 1500 V Energy Storage System).

The Model HCTSM150102HL is built with a ferrite toroid core for high coupling factor and efficiency. The reinforced isolation, 15 mm minimum clearance/creepage distance and 7.64 kV @ 2 seconds withstanding voltage provide an elevated degree of isolation from high voltage hazards.

The Model HCTSM100304FL is also built with a ferrite toroid core for a high coupling factor and efficiency. The reinforced isolation, 8 mm minimum clearance/creepage distance, and 4.2 kV @ 60 seconds withstanding voltage provide an elevated degree of isolation from high voltage hazards.

Both of the transformers are designed for isolation power supplies using Texas Instruments Model SN6501 and SN6505B transformer drivers. The Model HCTSM100304FL is compliant with IEC 60664-1 and IEC 62368-1 standards and the Model HCTSM150102HL is compliant with IEC 60950-1 and IEC 62368-1 standards.

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HCTSM100304FL Features

- Low profile (7.5 mm) housing with >10 mm clearance and creepage
- Complies with IEC 60950-1 and IEC 62368-1 standards
- Reinforced insulation for working voltage of 800 V
- Designed for isolation power supplies using TI SN6501 and SN6505B transformer drivers
- RoHS compliant*

HCTSM100304FL Applications

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

HCTSM150102HL Features

- >15 mm clearance and creepage
- Complies with IEC 60664-1 and IEC 62368-1 standards
- Reinforced insulation for working voltage of 1500 V
- Designed for isolation power supplies using TI SN6501 and SN6505B transformer drivers
- Partial discharge test: 2250 V_{rms}
- UL recognized per UL 62368-1, File No. E515965
- RoHS compliant*

HCTSM150102HL Applications

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

Please visit Bourns' website at <u>www.bourns.com</u> for additional product details. If you have any questions, please contact <u>Bourns Customer Service/Inside Sales</u>.

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