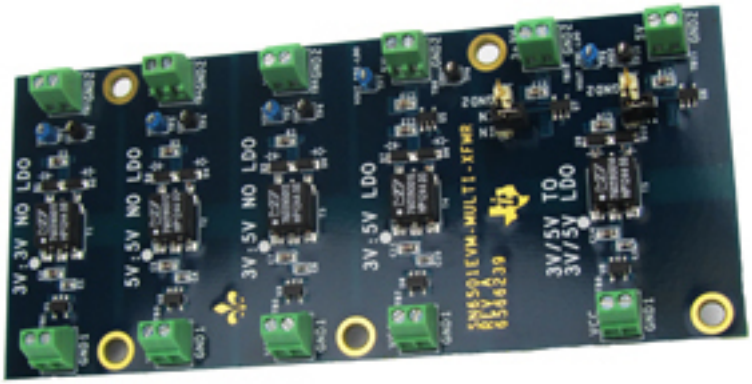
Power Supply Series Provide up to 150mA of Load Current



Wurth Electronics Midcom Inc. introduces a tiny series of surface mount transformers developed with Texas Instruments to be used with the SN6501 Transformer Driver for Isolated Power Supplies.

This new series enables tiny power supplies with very low part count to be developed for a host of applications up to 150mA of load current. In particular, the reference design is especially suited for CAN, RS232/422/485, SPI, I2C, and low-power LAN products used in industrial automation, process control and medical equipment.

The low-profile, surface-mount transformers from Wurth Electronics Midcom accommodates voltage levels ranging from 3V to 5.5V on both the input and the output. The transformers have a dielectric isolation rating of 2500VRMS for one minute, comply with various UL, EN and IEC safety standards, and satisfy functional insulation requirements for a primary circuit at a working voltage of 400VRMS. The body size of the transformer is roughly 7x7mm and 4mm tall. The operating temperature of the transformers is –40°C to 125°C.

The SN6501 is a monolithic oscillator/power-driver, specifically designed for small form factor, isolated power supplies in isolated interface applications. It drives a low-profile, center-tapped transformer primary from a 3V to 5.5V DC power supply. Wurth Electronics Midcom can also wind custom transformers to provide other isolated voltage based on application requirements.

SN6501 is available in a small SOT23-5 package and is specified for operation at temperatures of –40°C to 125°C.

To request free samples or to find more information, visit www.we-online.com/midcom [1].

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