High Isolation Switch Mode Power Transformers

Pulse Electronics Corporation, a leading provider of electronic components, introduces a new series of high isolation switch mode power transformers that provide a reinforced insulation power supply for RS485 and RS232 transceiver ICs. The transformers are designed on an SMD platform with offset pins to maintain a large separation between primary and secondary circuits. Applications include industrial control systems, building automation, smart grid, surveillance, and aeronautics. The Pulse Electronics PH9185NL transformers facilitate using a RS485/232 communications bus as a low cost alternative to Ethernet. They are compatible with the Maxim™ MAX253 power driver IC.

In accordance with IEC60950/EN61558, the construction of the PH9185NL series has been certified by UL/TUV for reinforced insulation up to a 400V working voltage. The design guarantees 8mm creepage and 4000Vrms isolation voltage to meet this requirement. The design also utilizes Pulse Electronics' Class F insulation system.

"In certain applications, such as noisy industrial environments or larger networks, peripheral devices require reinforced insulation from the network to protect them from possible interference on remote nodes. The PH9185NL series provides the needed insulation to the power driver and has a unique, compact construction that complies with the most stringent UL and TUV standards," said Gerard Healy, field applications engineer, Pulse Electronics Power Division.

Pulse Electronics' PH9185NL series consists of seven turns ratios to provide the required voltage to the IC from a range of low voltage levels, delivering up to 3W of

power. The parts are RoHS compliant and packaged in trays or in tape and reel. Prices start at approximately $1.40 each for quantities of 10,000. High volume discounts are available. Samples can be requested for all parts in the series. Volume lead-time is 10-12 weeks standard.

Pulse Electronics Corporation
www.pulseelectronics.com [1]

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