3 W AC-DC Power Supplies Designed for Space Critical Applications

Stoughton, MA (February 19, 2010) Available immediately from MicroPower Direct, the MPS-03S series is a family of single output, 3W switching power supplies. Specifically designed for space critical applications, these low cost modules are fabricated in an ultra-miniature single-in-line (SIP) package.

Six standard models operate from a universal input of 85 to 264 VAC; providing tightly regulated single outputs of 3.3, 5, 9, 12, 15, or 24 VDC. They may also be used in high voltage DC/DC applications with an input of 100 to 400 VDC. Standard features include tight line/load regulation, continuous short circuit protection, input/output isolation of 2,000 VAC, and very low leakage current.

The MPS-03S has a Class II input (IEC61140). This means it can be used without an earth ground connection. The MTBF (per MIL HDBK 217F) of the MPS-03S series is greater than 200 khours. The series is RoHS compliant.
The MPS-03S series is packaged in an ultra-miniature SIP package. Each model is specified for operation over the wide industrial operating temperature range of -40°C to +85°C (ambient).

The MPS-03S series is an ideal solution for a variety of applications requiring high performance, miniature size and low cost. Applications would include industrial automation systems, machine/process control equipment, and telecommunications/data processing systems. With its Class II input, the MPS-03S series is a good choice for remote or portable equipment where a reliable ground is often not available.

MicroPower Direct products are designed to provide long, reliable field life. Considerable attention is given to the proper selection, derating, and layout of all circuit components. In addition, extensive reliability screening is also performed on all power products as a routine part of our production process.

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