

2.4 Watts

DC/DC

Single/Dual Outputs

- MOSFET design
- Efficiency to 80%
- MTBF in excess of 1,000,000 hours
- LC input filter
- Operating temperature range: -25°C to +71°C; No derating

Specifications

INPUT

Voltage Range Filtering

4.5 - 5.5 Vdc

LC

OUTPUT

Voltage Tolerance Ripple and Noise (PARD) Short Circuit Protection Temperature Coefficient

± 3%

30mV RMS Short term 0.02% / °C

GENERAL

Regulation:

Line Load Efficiency I/O Isolation Switching Frequency 1% / % Vin (tvp.) See Load Curve

75 - 80% 500 Vdc 50kHz

ENVIRONMENTAL

Operating Temperature Storage Temperature Cooling

-25°C to +71°C No Derating

-25°C to +85°C Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

he DPS/DPD is an economically priced series of miniature DC/DC converters offering both single and dual outputs. These unregulated converters offer the latest in MOSFET technology. Featuring efficiencies to 80% and a calculated MTBF in excess of 1,000,000 hours. Additional features include an operating temperature range of -25°C to +71°C with no derating and a LC input filter to reduce the reflected ripple. All this in a package measuring 1.1" x 1.1" x 0.5" high make these converters ideally suited for 0.75" card spacing

Applications

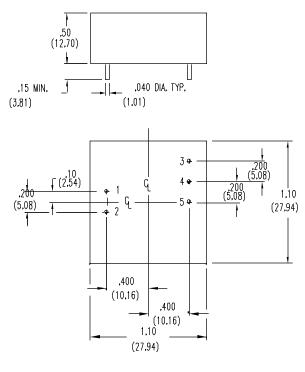
The DPS/DPD Series is ideally suited for many microprocessor and memory applications. For user convenience all dual output models can deliver full rated output power from either side. Applications include process control, telecommunications, automatic test equipment and battery operated equipment requiring isolation.

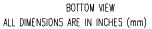


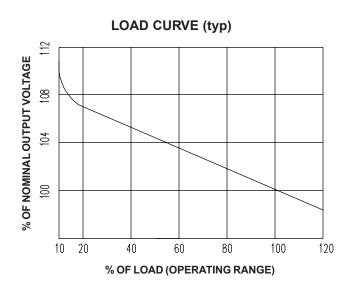
DPS/DPD Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
4.5-5.5Vdc	5Vdc	180mA	DPS11-018-05
4.5-5.5Vdc	5Vdc	450mA	DPS11-045-05
4.5-5.5Vdc	12Vdc	75mA	DPS12-007-05
4.5-5.5Vdc	12Vdc	200mA	DPS12-020-05
4.5-5.5Vdc	±12 Vdc	±38mA	DPD22-008-05
4.5-5.5Vdc	±12 Vdc	±100mA	DPD22-020-05
4.5-5.5Vdc	±15Vdc	±30mA	DPD23-006-05
4.5-5.5Vdc	±15Vdc	±80mA	DPD23-016-05

Dimensions and Connections







PIN CONNECTIONS Single Output

- 1. Input
- 2. + Input
- 3. + Output
- 4. Output

5. Do not connect

PIN CONNECTIONS

- **Dual Outputs** 1. - Input
 - 2. + Input
 - 3. + Output
 - 4. Common
 - 5. Output

NOTES:

- 1. Pins 0.040 (1.0) Dia. x 0.15 (3.8) lg min.
- 2. All dimensions are in inches and (mm).
- 3.Ripple measured with a 3.3mf tantalum capacitor across each output.

11/01/2001