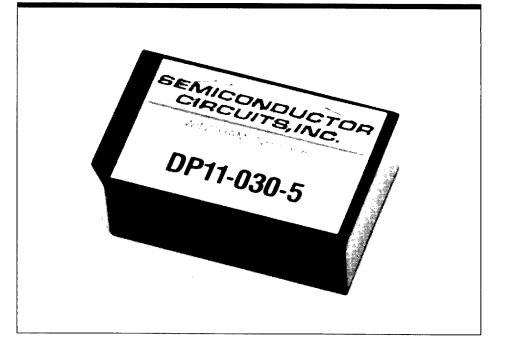
DC/DC 2.4 Watts Single/Dual Outputs **DP Series**

- MOSFET design
- Continuous short circuit protection
- 500 Vdc I/O isolation
- Regulated outputs
- 24 pin DIP compatible packaging

he DP family is an economically priced high performance series of regulated DC/DC converters offering single and dual outputs. Features include MOSFET design operating at a switching frequency of 200 kHz, continuous short circuit protection, LC input filter, 500 Vdc input/ output isolation and an operating temperature range of -25° C to +71° C with no derating. These miniature converters maintain excellent regulation over varying line and load conditions (0.2% for line and 0.5% for load). They are packaged in an IC compatible 24 pin DIP configuration measuring 1.25 " x 0.8" x 0.4" high.

Applications

The DP Series is ideally suited for high density PC board applications where real estate is at a premium. Applications include telecommunications, automatic test equipment, process control, etc.



Specifications

INPUT

Vin-Nominal Voltage Range Filtering Reflected Ripple

± 5% Yes -- All Units

5 Vdc

20 mA p-p (typ. at full load)

OUTPUT

Voltage Tolerance Ripple and Noise **Short Circuit Protection** Temperature Coefficient ± 5% (max.) 20 mV p-p (max)* Continuous-Auto Restart 0.02%/ ° C max.

GENERAL

Regulation; Line/Load Efficiency I/O Isolation Switching Frequency

0.2%/0.5% 60% (typ.) 500 Vdc 200 kHz

ENVIRONMENTAL

Operating Temperature Range Storage Temperature Range Cooling

-25° C to +71° C; No Derating -40° C to +85° C

Free-air Convection

NOTE: * Measured with 3.3 MF 25V tantalum capacitor across each output.



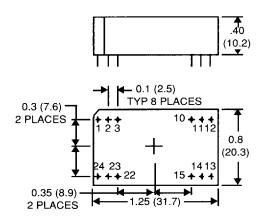
All specifications are typical at nominal line and full load at +25° C unless otherwise noted. Specifications subject to change without notice.



DP Series Ordering Information

Input	Output	Maximum Current (AT)			Model
Voltage	Voltage	50°C	60°C	70°C	Number
5 Vdc	5 Vdc	300 mA	300 mA	300 mA	DP11-030-5
5 Vdc	9 Vdc	200 mA	200 mA	200 mA	DP19-020-5
5 Vdc	12 Vdc	200 mA	200 mA	175 m A	DP12-020-5
5 Vdc	15 Vdc	160 mA	140 mA	120 m A	DP13-016-5
5 Vdc	±12 Vdc	±85 m A	±85 mA	±80 mA	DP22-017-5
5 Vdc	±15 Vdc	±70 mA	±70 mA	±65 mA	DP23-014-5

Dimensions and Connections



PIN CONNECTIONS

Single Output	Dual Output
PIN 1. & 24. + Vdc In	PIN 1. & 24. + Vdc In
2. & 23. N.C.	2. & 23 Vdc Out
3. & 22 Vdc Out	3. & 22. Common Out
10. & 15 Vdc Out	10. & 15. Common Out
11. & 14. + Vdc Out	11. & 14. + Vdc Out
12. & 13 Vdc In	12. & 13 Vdc In

NOTES:

- 1. Twelve pins 0.018 (0.5) square x 0.15 (3.8) lg min.
- 2. All dimensions are in inches and (mm).

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