

DP Series



DC/DC

1.5 to 2.4 Watts

Single/Dual Outputs

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

Specifications

INPUT

Voltage Range	4.75-5.25 Vdc
Reflected Ripple	20mA pk-pk (typ. full load)
Filtering	All Models

OUTPUT

Voltage Tolerance	± 5%
Ripple and Noise (PARD)	20mV pk-pk (max)
Short Circuit Protection	Current Limit
Temperature Coefficient	0.02% / °C

GENERAL

Regulation:	
Line	0.2%
Load	0.5%
Efficiency	60% (typ)
I/O Isolation	500 Vdc
Switching Frequency	100kHz

ENVIRONMENTAL

Operating Temperature	-25°C to +71°C No Derating
Storage Temperature	-25°C to +85°C
Cooling	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.

The 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 100Khz, continuous short circuit protection, LC input filter, 500 Vdc I/O 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.



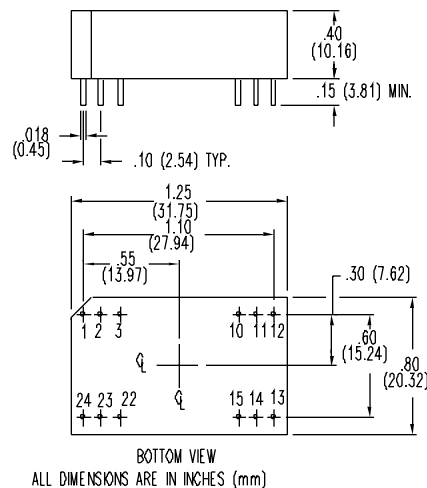
**SEMICONDUCTOR
CIRCUITS, INC.**

800.438.3232 800.GET.DCDC

DP Series Ordering Information

Input Voltage Range	Output Voltage	Maximum Current			Model Number
		50°C	60°C	70°C	
4.75-5.25Vdc	5Vdc	300mA	300mA	300mA	DP11-030-05
4.75-5.25Vdc	9Vdc	200mA	200mA	200mA	DP19-020-05
4.75-5.25Vdc	12Vdc	200mA	175mA	150mA	DP12-020-05
4.75-5.25Vdc	15 Vdc	160mA	140mA	120mA	DP13-016-05
4.75-5.25Vdc	±12 Vdc	±85mA	±85mA	±80mA	DP22-017-05
4.75-5.25 Vdc	±15Vdc	±70mA	±70mA	±65mA	DP23-014-05

Dimensions and Connections



PIN CONNECTIONS

Single Output

- 1. & 24. +Input
- 2. & 23. No Connect
- 3. & 22. - Output
- 10. & 15. - Output
- 11. & 14. +Output
- 12. & 13. -Input

PIN CONNECTIONS

Dual Outputs

- 1. & 24. +Input
- 2. & 23. - Output
- 3. & 22. Common
- 10. & 15. Common
- 11. & 14. +Output
- 12. & 13. -Input

NOTES:

- 1. Twelve pins 0.018 (0.5) square 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.

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