

# DC/DC

# 3.0 to 3.6 Watts

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 (typ.) See Load Curve 80% (typ) 500 Vdc 50kHz

## **ENVIRONMENTAL**

Operating Temperature Storage Temperature Cooling -25°C to +71°C No Derating -25°C to +105°C Free-air Convection

All specifications are typical at nominal line and full load at  $25^{\circ}$ C unless otherwise noted and are subject to change without notice.

he DPU 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 1.25" x 0.8" x 0.4 high.

## **Applications**

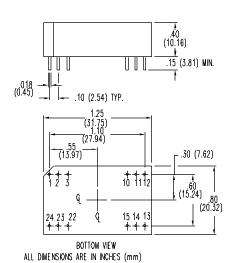
The DPU Series is ideally suited for many microprocessor and memory applications. For user convenience, all dual output models can deliver full rated output power from either side. Applications include process control, telecommunications (including Ethernet), automatic test equipment, etc.

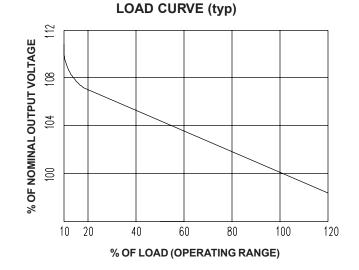


# **DPU Series Ordering Information**

Input Voltage Range	Output Voltage	Output Current	Model Number
4.5-5.5Vdc	5Vdc	600mA	DPU11-060-05
4.5-5.5Vdc	9Vdc	330mA	DPU19-033-05
4.5-5.5Vdc	12Vdc	300mA	DPU12-030-05
4.5-5.5Vdc	15 Vdc	240mA	DPU13-024-05
4.5-5.5Vdc	±12 Vdc	±150mA	DPU22-030-05
4.5-5.5Vdc	±15Vdc	±120mA	DPU23-024-05

# **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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