

# DBPB0428B2L-P001 AVC 12VDC 40x40x28mm PWM Axial Fan Datasheet



**Brand:** AVC

**SKU:** [671292548766](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$11.99**

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**E-mail:** [sales@equipspares.com](mailto:sales@equipspares.com)

**Web:** <https://www.equipspares.com>

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Product Page:

<https://www.equipspares.com/product/dbpb0428b2l-p001-avc-12vdc-40x40x28mm-pwm-axial-fan>

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## Product Description

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The AVC DBPB0428B2L-P001 is a high-performance DC Axial Fan engineered for mission-critical thermal management in dense electronic enclosures. Utilizing advanced dual ball bearing architecture, this unit ensures long-term operational stability and reduced frictional heat generation, significantly extending the mean time between failures (MTBF). The aerodynamic impeller design is optimized to deliver exceptional static pressure, effectively overcoming high thermal impedance in restricted airflow environments. Powered by a robust 12VDC motor with PWM speed control capabilities, it offers precise thermal regulation based on system load. The housing is constructed for maximum structural rigidity, minimizing vibration-induced noise while maintaining consistent airflow delivery under heavy load conditions.

Model Number: DBPB0428B2L-P001

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.78 A

Power Input: 9.36 W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 23.8 CFM (40.4 m<sup>3</sup>/h / 0.67 m<sup>3</sup>/min)

Max. Static Pressure: 1.95 inH<sub>2</sub>O (486 Pa / 49.6 mmH<sub>2</sub>O)

Dimensions: 40 x 40 x 28 mm

Weight: 48 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead with Connector

Wire Configuration: Red (+), Black (-), Yellow (Sensor), Blue (PWM)

Housing Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Safety Certifications: UL, TUV, CE

This cooling solution is specifically designed for high-density computing environments, including 1U server racks and blade servers where space is limited but heat dissipation requirements are extreme. The DBPB0428B2L-P001 excels in cooling redundant power supplies and high-end network switches, ensuring component longevity through consistent high-pressure airflow. Additionally, the DBPB0428B2L-P001 is suitable for industrial automation equipment, RAID arrays, and compact telecommunications modules requiring reliable forced air convection.

## Supplemental Images

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