

DBPU0428B2U-P058 AVC 12VDC 40x40x28mm 1.80A Server Axial Fan Datasheet



Brand: AVC

SKU: 848907874245

Category: Axial & Centrifugal Fans

Price: **\$16.99**

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Product Page:

<https://www.equipspares.com/product/dbpu0428b2u-p058-avc-12vdc-40x40x28mm-1-80a-server-axial-fan>

Product Description

The AVC DBPU0428B2U-P058 is a high-performance DC Axial Fan engineered for extreme thermal management environments requiring substantial static pressure. Utilizing advanced motor technology with a high-current winding design, this unit delivers exceptional airflow density relative to its compact frame. The construction features a reinforced thermoplastic housing and a precision-balanced impeller designed to minimize vibration at high rotational velocities. Equipped with a robust Dual Ball Bearing system, the fan ensures long-term reliability and structural rigidity under continuous operation. Its aerodynamic profile is optimized to overcome high system impedance, making it an ideal solution for forced convection in densely packed electronic enclosures.

Model Number: DBPU0428B2U-P058

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Frame Size: 40mm x 40mm x 28mm

Rated Voltage: 12VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 1.80 A

Power Consumption: 21.6 W

Bearing Type: Dual Ball Bearing

Max. Air Flow: ~28.0 CFM (Estimated based on current)

Max. Static Pressure: High Static Pressure (Optimized for 1U)

Rotational Speed: ~18000 RPM (High Speed)

Noise Level: High (Industrial Grade)

Termination: 4-Wire (PWM Control/Tachometer)

Connector: Standard 4-Pin Server Header

Housing Material: PBT (UL94V-0)

Blade Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Safety Protection: Locked Rotor Protection, Polarity Protection

Application: 1U Server Power Supply, High-Density Cooling

The DBPU0428B2U-P058 is specifically designed for mission-critical applications where space is limited but cooling requirements are severe. It is frequently deployed in 1U server racks, high-wattage server power supplies, and compact telecommunications equipment. The high static pressure capabilities of the DBPU0428B2U-P058 allow it to effectively push air through restrictive heatsinks and dense component layouts found in industrial computing and networking hardware.

Supplemental Images

