

DBPT0428B2SY004 AVC 12VDC 40x40x28mm 2.80A Axial Fan Datasheet



Brand: AVC

SKU: 1008010410839

Category: Axial & Centrifugal Fans

Price: **\$12.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/dbpt0428b2sy004-avc-12vdc-40x40x28mm-2-80a-axial-fan>

Product Description

The AVC DBPT0428B2SY004 is a high-performance Axial Fan engineered for mission-critical thermal management in dense server environments. Utilizing advanced DC brushless motor technology paired with a robust Dual Ball Bearing architecture, this unit ensures exceptional longevity and stability under continuous high-speed operation. The aerodynamic blade design is optimized to maximize static pressure, effectively overcoming high thermal impedance in restricted chassis airflows. Constructed with industrial-grade thermoplastic, the frame offers superior structural rigidity, minimizing vibration at its rated 30000 RPM. This 40mm cooling solution integrates PWM control for precise speed modulation, balancing cooling efficiency with power consumption.

Model Number: DBPT0428B2SY004

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 2.80 A

Power Consumption: 33.6 W

Rated Speed: 30000 RPM ($\pm 10\%$)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 32.5 CFM (55.2 m³/h / 0.92 m³/min)

Max. Static Pressure: 75.4 mmH₂O (740 Pa / 2.97 inH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 55 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Noise Level: 64.0 dB(A)

Housing Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Termination: 4-Wire Lead (Red +, Black -, Blue PWM, Yellow Tach)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Safety Certifications: UL, CUL, TUV, CE

Protection: Locked Rotor Protection, Polarity Protection

Designed primarily for high-density computing environments, the DBPT0428B2SY004 excels in 1U server racks and blade servers where space is limited but heat dissipation requirements are extreme. The high static pressure generated by the DBPT0428B2SY004 allows it to force air through tightly packed heatsinks and restrictive chassis components found in telecommunications equipment and network switches. Additionally, this unit is suitable for precision cooling in industrial automation systems and compact power supplies requiring reliable thermal regulation.

Supplemental Images

