

DBTA0825B2U-P001 AVC 12VDC 80x80x25mm PWM Axial Fan Datasheet



Brand: AVC

SKU: 995229470624

Category: Axial & Centrifugal Fans

Price: \$25.99

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Product Page:

<https://www.equipspares.com/product/dbta0825b2u-p001-avc-12vdc-80x80x25mm-pwm-axial-fan>

Product Description

AVC DBTA0825B2U-P001 is a 12VDC 80x80x25mm Axial Fan optimized for high-density thermal management in server and networking environments. This unit features a sophisticated dual ball bearing architecture designed to minimize thermal impedance and ensure long-term structural rigidity under continuous operation. Utilizing a 4-wire PWM control interface, it allows for precise speed modulation to balance acoustic output with cooling demands. With a rated current of 0.54A and high RPM capabilities, it effectively overcomes system impedance in restricted enclosures. The aerodynamic blade profile is engineered for maximum static pressure, making it a reliable replacement fan for mission-critical hardware requiring consistent 12VDC cooling performance.

Model Number: DBTA0825B2U-P001

Brand: AVC

Product Type: Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.54 A

Power: 6.48 W

Rated Speed: 5000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 58.5 CFM (99.4 m³/h / 1.65 m³/min)

Max. Static Pressure: 12.4 mmH₂O (121.6 Pa / 0.49 inH₂O)

Dimensions: 80 x 80 x 25 mm

Weight: 85 g

Life Expectancy: 70,000 hours

Speed Control: PWM, Tachometer

Ingress Protection: IP54 Rated

Insulation Class: Class A

Housing Material: UL94V-0 Plastic

Blade Material: UL94V-0 Plastic

Termination: 4-Wire Lead

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

Mounting Orientation: All Directions

Certifications: CE, TUV, UL

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

DBTA0825B2U-P001 Applications

1. 2U Rackmount Servers: High static pressure overcomes the airflow resistance of densely packed drive bays and heat sinks.
2. Enterprise Networking Switches: PWM control allows for dynamic cooling based on traffic load, extending component lifespan.
3. Industrial VFD Cabinets: Dual ball bearings provide the necessary durability for vertical mounting in high-vibration industrial environments.
4. Telecom Base Stations: Reliable replacement fan for outdoor enclosures requiring consistent thermal regulation under varying ambient temperatures.

Supplemental Images

