

DBTA1225B8S-P031 AVC 48VDC 120x120x25mm PWM Axial Fan Datasheet



Brand: AVC

SKU: [834279499557](#)

Category: Axial & Centrifugal Fans

Price: **\$19.99**

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Product Page:

<https://www.equipspares.com/product/dbta1225b8s-p031-avc-48vdc-120x120x25mm-pwm-axial-fan>

Product Description

The AVC DBTA1225B8S-P031 is a high-performance DC Axial Fan engineered for critical thermal management in telecommunications and industrial switching equipment. Utilizing advanced Dual Ball Bearing architecture, this 120mm unit delivers exceptional structural rigidity and prolonged operational lifespan under continuous load. The aerodynamic impeller design optimizes airflow while minimizing thermal impedance, ensuring rapid heat dissipation in high-density enclosures. Featuring a 48VDC motor with precise 4-wire PWM speed control, the DBTA1225B8S-P031 dynamically adjusts rotational speed to balance cooling performance with acoustic output, making it an ideal solution for demanding server and network infrastructure environments.

Model Number: DBTA1225B8S-P031

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 36.0 - 56.0 VDC

Rated Current: 0.50 A

Power Consumption: 24.0 W

Rated Speed: 4200 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 148.5 CFM (252.3 m³/h / 4.20 m³/min)

Max. Static Pressure: 16.5 mmH₂O (161.8 Pa / 0.65 inH₂O)

Dimensions: 120 x 120 x 25 mm

Weight: 210 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: 4-Wire PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Noise Level: 54.0 dB(A)

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Ingress Protection: IP54

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 4-Wire Leads with Connector

Wire Assignment: Red (+), Black (-), Yellow (FG), Blue (PWM)

Certifications: CE, UL, TUV, RoHS

Designed specifically for high-availability network hardware, the DBTA1225B8S-P031 is frequently deployed in enterprise network switches and rack-mounted server chassis where consistent airflow is paramount. The robust construction of the DBTA1225B8S-P031 allows it to operate reliably in telecom base stations and industrial automation cabinets, effectively mitigating thermal throttling in sensitive electronic components. Its PWM capability also makes it suitable for variable-load power supplies and precision cooling in medical instrumentation.

Supplemental Images

