

DBTA0638B2S AVC 12VDC 60x60x38mm 3.15A Axial Fan Datasheet



Brand: AVC

SKU: 953141746550

Category: Axial & Centrifugal Fans

Price: **\$13.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/dbta0638b2s-avc-12vdc-60x60x38mm-3-15a-axial-fan>

Product Description

The AVC DBTA0638B2S is a high-performance axial cooling fan engineered for demanding thermal management applications requiring significant static pressure and airflow density. This unit utilizes advanced DC motor technology coupled with a precision dual ball bearing architecture, ensuring exceptional rotational stability and longevity even under continuous high-speed operation. The aerodynamic design of the impeller blades is optimized to minimize turbulence while maximizing air throughput, effectively reducing thermal impedance in restricted enclosures. Constructed with industrial-grade materials, the fan housing offers superior structural rigidity and resistance to environmental stressors. The DBTA0638B2S integrates sophisticated PWM control circuitry, allowing for dynamic speed modulation based on real-time thermal loads, which optimizes energy efficiency and acoustic performance in critical systems.

Model Number: DBTA0638B2S

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 3.15 A

Power Consumption: 37.8 W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 68.5 CFM (116.3 m³/h / 1.94 m³/min)

Max. Static Pressure: 48.2 mmH₂O (472.6 Pa / 1.90 inH₂O)

Dimensions: 60 x 60 x 38 mm

Weight: 115 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: 4-Wire PWM

Noise Level: 61.5 dBA

Housing Material: PBT (UL94V-0)

Blade Material: PBT (UL94V-0)

Termination: 4-Wire Leads with Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP54 (Optional)

Safety Certifications: UL, CUL, TUV, CE

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

The DBTA0638B2S is specifically designed for high-density server environments and telecommunications equipment where space is at a premium but cooling requirements are extreme. Its compact 60mm form factor allows it to fit seamlessly into 1U and 2U server racks, providing the necessary airflow to cool high-TDP processors and power supply units. Additionally, the DBTA0638B2S is frequently utilized in precision medical instrumentation and industrial automation control panels, where reliability is non-negotiable. The robust construction ensures that the DBTA0638B2S maintains peak performance in CNC machinery and network switchgear, effectively preventing thermal throttling and extending the lifespan of sensitive electronic components.

Supplemental Images

