

AB05012DX200300 ADDA 12VDC 50x50x20mm Projector Blower Fan Datasheet



Brand: ADDA

SKU: [676843183682](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/ab05012dx200300-adda-12vdc-50x50x20mm-projector-blower-fan>

Product Description

The ADDA AB05012DX200300 is a precision-engineered centrifugal blower designed for high-impedance thermal management applications, particularly within compact optical projection systems. Utilizing advanced DC brushless motor technology and a specialized impeller design, this unit optimizes airflow dynamics to overcome significant system resistance, ensuring superior heat dissipation for critical components. The frame and volute are constructed to maintain structural rigidity under thermal stress, while the bearing architecture is calibrated for longevity and stable acoustic performance. This 12VDC blower efficiently manages static pressure, making it an ideal component for precision electronics requiring focused, high-velocity cooling solutions.

Model Number: AB05012DX200300

Brand: ADDA Corporation

Product Type: DC Centrifugal Blower

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.15 A

Input Power: 1.80 W

Rated Speed: 4500 RPM

Bearing Type: Hypro Bearing

Max. Air Flow: 4.5 CFM (7.65 m³/h)

Max. Static Pressure: 11.2 mmH₂O (110 Pa)

Dimensions: 50 x 50 x 20 mm

Weight: 28 g

Noise Level: 34.0 dB(A)

Frame Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Direction of Rotation: Counter-clockwise viewed from front of fan blade

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 3-Wire Lead with Connector

Wire Gauge: 26 AWG

Insulation Resistance: 10M Ohms at 500VDC

Dielectric Strength: 500VAC for 1 min

Service Life: 40,000 Hours (at 40°C)

Safety Certifications: UL, CUL, TUV, CE

Motor Protection: Impedance Protected

Speed Control: Tachometer Output (FG Signal)

The AB05012DX200300 is specifically engineered for integration into compact projection systems, serving as a critical cooling component for BenQ and similar high-lumen projectors. By channeling airflow directly over heat-sensitive optical engines and lamp housings, the AB05012DX200300 prevents thermal throttling and premature component degradation. Its compact 50mm profile also suits small form-factor industrial automation equipment, 3D printers, and embedded telecommunications devices where directed air pressure is required to overcome the high static pressure of dense circuitry.

Supplemental Images

