

AB05212MX250300 ADDA 12VDC 50mm Turbo Cooling Blower Fan Datasheet



Brand: ADDA

SKU: 969948029024

Category: Axial & Centrifugal Fans

Price: \$11.99

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<https://www.equipspares.com/product/ab05212mx250300-adda-12vdc-50mm-turbo-cooling-blower-fan>

Product Description

The ADDA AB05212MX250300 is a precision-engineered DC centrifugal blower designed for applications requiring high static pressure and concentrated airflow. Utilizing ADDA's proprietary Hypro bearing technology, this unit bridges the gap between sleeve and ball bearings, offering extended service life and reduced oil leakage risks while maintaining low acoustic signatures. The aerodynamic volute design optimizes air intake and exhaust efficiency, significantly lowering thermal impedance in space-constrained enclosures. Driven by a robust brushless DC motor, the fan delivers consistent performance with a rated current of 0.25A, ensuring effective heat dissipation for sensitive electronic components. Its structural rigidity and UL94V-0 rated housing make it an ideal solution for demanding industrial and consumer electronics environments where reliability and airflow precision are paramount.

Model Number: AB05212MX250300

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Product Type: Centrifugal Blower

Rated Voltage: 12 VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.25 A

Input Power: 3.00 W

Rated Speed: 4800 RPM

Bearing Type: Hypro Bearing

Max. Air Flow: 4.50 CFM (7.65 m³/h / 0.12 m³/min)

Max. Static Pressure: 12.50 mmH₂O (122.5 Pa / 0.49 inH₂O)

Dimensions: 50mm x 50mm x 20mm

Weight: 28 g

Life Expectancy: 40,000 Hours at 40°C

Noise Level: 36.0 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: 3-Wire Lead with Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Safety Certifications: UL, cUL, TUV, CE

The AB05212MX250300 is engineered for high-density electronic cooling tasks where direct airflow is critical to system stability. Common deployment scenarios include multimedia projectors, where the AB05212MX250300 efficiently cools lamp housings and optical engines, as well as compact 3D printer extruders and medical instrumentation. Its compact blower form factor allows it to fit into tight chassis layouts in telecommunications equipment and server rack spot cooling applications.