

AD1312MB-F51 ADDA 12VDC 120x120x38mm IP52 Axial Fan Datasheet



Brand: ADDA

SKU: [1014668728225](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/ad1312mb-f51-adda-12vdc-120x120x38mm-ip52-axial-fan>

Product Description

The ADDA AD1312MB-F51 is a precision-engineered DC axial fan designed for robust thermal management in industrial environments. Utilizing advanced brushless DC motor technology, this unit ensures consistent airflow delivery while maintaining optimal energy efficiency. The construction features a durable housing and impeller assembly, engineered to withstand rigorous operational demands while minimizing structural vibration. Its aerodynamic blade profile is optimized to reduce thermal impedance, providing effective heat dissipation for sensitive electronic components. With an IP52 protection rating, the AD1312MB-F51 offers resistance against dust ingress, enhancing reliability in challenging conditions. The integration of a high-quality ball bearing system further extends the operational lifespan, ensuring long-term stability and reduced maintenance requirements for critical cooling applications.

Model Number: AD1312MB-F51

Brand: ADDA

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.48 A

Input Power: 5.76 W

Rated Speed: 2800 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 105.0 CFM (178.4 m³/h / 2.97 m³/min)

Max. Static Pressure: 8.1 mmH₂O (79.4 Pa / 0.32 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 290 g

Life Expectancy: 70,000 Hours at 40°C

Ingress Protection: IP52

Noise Level: 43.0 dB(A)

Housing Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Termination: 2-Wire Leads (Red +, Black -)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Motor Protection: Impedance Protected, Reverse Polarity Protection

Mounting Orientation: Any

The AD1312MB-F51 is specifically engineered for high-demand cooling scenarios found in industrial automation and power supply units. Its robust design makes it an ideal choice for server rack ventilation, telecommunications cabinets, and CNC machinery control panels where consistent airflow is paramount. Additionally, the AD1312MB-F51 is frequently utilized in medical instrumentation and heavy-duty chassis cooling, providing the necessary thermal regulation to prevent system overheating and ensure continuous operation in commercial environments.

Supplemental Images

