

MF0251V1-000C-A99 Sunon 12VDC 120x120x25mm 4.2W Axial Fan Datasheet



Brand: SUNON

SKU: 992467144752

Category: Axial & Centrifugal Fans

Price: **\$13.99**

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Product Page:

<https://www.equipspares.com/product/mf0251v1-000c-a99-sunon-12vdc-120x120x25mm-4-2w-axial-fan>

Product Description

The Sunon MF0251V1-000C-A99 is a high-efficiency DC axial fan engineered for demanding thermal management applications. Utilizing Sunon's proprietary MagLev motor technology and Vapo bearing system, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction and noise while extending operational lifespan. The aerodynamic impeller design optimizes airflow delivery to minimize thermal impedance within dense electronic enclosures. Constructed with a durable thermoplastic frame, it ensures structural rigidity and vibration stability, making it an ideal solution for continuous duty cycles in industrial environments requiring reliable heat dissipation.

Model Number: MF0251V1-000C-A99

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Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.35 A

Power Consumption: 4.20 W

Rated Speed: 3100 RPM

Bearing Type: MagLev Vapo Bearing

Max. Air Flow: 108.0 CFM (183.5 m³/h / 3.06 m³/min)

Max. Static Pressure: 7.11 mmH₂O (69.7 Pa / 0.28 inH₂O)

Dimensions: 120mm x 120mm x 25mm

Weight: 162 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 44.5 dB(A)

Termination: 2-Wire Lead

Frame Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Insulation Class: Class A

Ingress Protection: IP5X (Dust Resistant)

Safety Certifications: UL, CUR, TUV

Motor Protection: Auto Restart / Polarity Protection

Designed for critical cooling tasks, the MF0251V1-000C-A99 excels in environments where consistent airflow is paramount, such as server rack ventilation and telecommunications cabinet cooling. Its robust design allows for integration into industrial automation control panels and power supply units, ensuring components remain within safe operating temperatures. The MF0251V1-000C-A99 is also frequently utilized in medical instrumentation and network storage devices, providing reliable thermal regulation to prevent system failures due to overheating.