

# MF50201V1-C000-F99 SUNON 12VDC 50x50x20mm MagLev Axial Fan Datasheet



**Brand:** SUNON

**SKU:** [646509543421](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$15.99**

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Product Page:

<https://www.equipspares.com/product/mf50201v1-c000-f99-sunon-12vdc-50x50x20mm-maglev-axial-fan>

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## Product Description

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The SUNON MF50201V1-C000-F99 is a precision-engineered DC axial fan utilizing proprietary MagLev (Magnetic Levitation) motor technology. Designed to eliminate friction between the shaft and bearing, this unit features a Vapo bearing system that significantly enhances structural rigidity and extends operational lifespan. The aerodynamic impeller geometry is optimized to minimize thermal impedance while maintaining consistent airflow in high-static pressure environments. With a power rating of 1.62W, it delivers efficient thermal management for compact electronic assemblies, ensuring reliability through reduced mechanical wear and superior rotational stability.

Model Number: MF50201V1-C000-F99

Brand: SUNON

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.135 A

Power Consumption: 1.62 W

Rated Speed: 5800 RPM  $\pm$  15%

Bearing Type: MagLev (Vapo)

Max. Air Flow: 17.0 CFM (28.8 m<sup>3</sup>/h / 0.48 m<sup>3</sup>/min)

Max. Static Pressure: 0.23 inH<sub>2</sub>O (5.84 mmH<sub>2</sub>O / 57.3 Pa)

Dimensions: 50x50x20mm

Weight: 33.0 g

Life Expectancy: 60,000 Hours at 40°C

Noise Level: 29.0 dBA

Housing Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Ingress Protection: IP5X (Dust Protected)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 3-Wire Lead

Safety Approvals: UL, CUR, TUV, CE

Motor Protection: Auto Restart / Polarity Protection

The MF50201V1-C000-F99 is specifically engineered for compact thermal solutions requiring high reliability, such as portable projectors and multimedia devices. Its magnetic levitation system makes the MF50201V1-C000-F99 ideal for noise-sensitive environments including home theater systems, medical instrumentation, and precision optical equipment. Additionally, this model serves effectively in network switches and small form-factor industrial automation controllers where space constraints demand efficient airflow without compromising component longevity.

## Supplemental Images

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