

# MC25100V1-000U-A99 SUNON 5VDC 25x25x10mm MagLev Axial Fan Datasheet



**Brand:** SUNON

**SKU:** [990441066580](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$14.99**

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Product Page:

<https://www.equipspares.com/product/mc25100v1-000u-a99-sunon-5vdc-25x25x10mm-maglev-axial-fan>

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## Product Description

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The SUNON MC25100V1-000U-A99 is a precision-engineered DC axial fan featuring Sunon's proprietary Magnetic Levitation (MagLev) motor technology. This advanced Vapo bearing architecture eliminates physical contact between the shaft and bearing during operation, significantly reducing friction, vibration, and noise while extending operational lifespan. Designed for compact electronic assemblies, the unit delivers optimal aerodynamic performance with a specialized impeller geometry that maximizes airflow relative to its miniature footprint. The fan housing is constructed from durable thermoplastic with high structural rigidity, ensuring consistent performance under varying thermal loads. Its design prioritizes low thermal impedance and high reliability, making it suitable for continuous duty cycles in sensitive instrumentation.

Model Number: MC25100V1-000U-A99

Brand: SUNON

Product Type: DC Axial Fan

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.086 A

Power Consumption: 0.43 W

Rated Speed: 10000 RPM  $\pm$  15%

Bearing Type: Vapo (MagLev)

Max. Air Flow: 3.0 CFM (5.1 m<sup>3</sup>/h / 0.085 m<sup>3</sup>/min)

Max. Static Pressure: 0.18 inH<sub>2</sub>O (4.57 mmH<sub>2</sub>O / 44.8 Pa)

Dimensions: 25x25x10mm

Weight: 7.5 g

Life Expectancy: 60,000 Hours @ 40°C

Noise Level: 23.0 dB(A)

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Termination: 2-Wire (Lead Wire UL1571 AWG28)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP5X (Dust Resistant)

Safety Certifications: UL, CUR, TUV

Motor Protection: Impedance Protected

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

The MC25100V1-000U-A99 is specifically engineered for high-density electronic applications where space is at a premium but thermal management cannot be compromised. Common deployment scenarios include chipset cooling in embedded systems, miniature projectors, handheld medical diagnostic devices, and DVR/NVR internal component cooling. The compact 25mm footprint allows the MC25100V1-000U-A99 to fit seamlessly into tight enclosures found in portable instrumentation and IoT gateways, ensuring critical components remain within safe operating temperature ranges.

## Supplemental Images

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