

MF25100V1-1Q03A-GB9 SUNON 5VDC 25x25x10mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: [988117125630](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/mf25100v1-1q03a-gb9-sunon-5vdc-25x25x10mm-maglev-axial-fan>

Product Description

The SUNON MF25100V1-1Q03A-GB9 is a precision-engineered DC axial fan designed for compact thermal management applications requiring high reliability and low acoustic signatures. Utilizing SUNON's proprietary MagLev (Magnetic Levitation) motor technology, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction and noise while extending operational lifespan. The Vapo bearing system ensures exceptional rotational stability and minimizes thermal impedance, making it ideal for continuous operation in confined spaces. With a robust thermoplastic frame and optimized blade geometry, the fan delivers efficient airflow relative to its diminutive footprint, maintaining structural rigidity under thermal stress and ensuring consistent performance in demanding industrial environments.

Model Number: MF25100V1-1Q03A-GB9

Brand: SUNON

Product Type: DC Axial Fan

Series: MagLev MF Series

Rated Voltage: 5 VDC

Voltage Range: 4.0 - 6.0 VDC

Rated Current: 0.116 A

Power Consumption: 0.58 W

Rated Speed: 10000 RPM \pm 15%

Bearing Type: MagLev (Vapo Bearing)
Max. Air Flow: 3.0 CFM (5.1 m³/h / 0.085 m³/min)
Max. Static Pressure: 0.18 inH₂O (4.57 mmH₂O / 44.8 Pa)
Dimensions: 25 x 25 x 10 mm
Weight: 7.5 g
Noise Level: 16.0 dB(A)
Frame 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
Life Expectancy: 60,000 Hours at 40°C
Termination: Lead Wires (UL1571, 28AWG)
Motor Protection: Auto Restart / Polarity Protection
Dielectric Strength: 500 VAC for 1 Minute
Insulation Resistance: 10M Ohms at 500 VDC
Certifications: UL, CUR, TUV, CE

This compact cooling solution is specifically engineered for high-density electronic assemblies where space is at a premium and reliability is paramount. The MF25100V1-1Q03A-GB9 is frequently integrated into portable medical devices, miniature projectors, and handheld instrumentation requiring active cooling without significant noise penalties. Additionally, the MF25100V1-1Q03A-GB9 serves as a critical component in chipset cooling for embedded systems, IoT gateways, and micro-drives, ensuring thermal stability in 24/7 operational environments.

Supplemental Images

