

MF50151V1-1000C-A99 SUNON 12VDC 50x50x15mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: [669480305092](#)

Category: Axial & Centrifugal Fans

Price: **\$13.99**

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Product Page:

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Product Description

The SUNON MF50151V1-1000C-A99 is a precision-engineered DC axial fan utilizing proprietary MagLev motor technology to eliminate friction and stabilize impeller rotation. This unit features a Vapo bearing system, which significantly reduces noise output while extending operational lifespan through superior dust resistance and thermal management. Designed with an optimized blade curvature, the fan delivers efficient airflow with minimal turbulence, ensuring consistent thermal impedance reduction in compact electronic assemblies. The housing is constructed from reinforced thermoplastic PBT (UL94V-0), providing structural rigidity and resistance to environmental stress, making it an ideal solution for high-reliability cooling requirements.

Model Number: MF50151V1-1000C-A99

Brand: SUNON

Product Type: DC Axial Fan

Series: MagLev MF Series

Rated Voltage: 12VDC

Voltage Range: 4.5 - 13.8 VDC

Rated Current: 0.077 A

Power Consumption: 0.92 W

Rated Speed: 6100 RPM \pm 15%

Bearing Type: Vapo Bearing (MagLev)
Max. Air Flow: 4.8 CFM (8.15 m³/h / 0.13 m³/min)
Max. Static Pressure: 0.17 inH₂O (4.23 mmH₂O / 41.5 Pa)
Dimensions: 50x50x15mm
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 Resistant)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: 2 Wire Leads (UL1007 #26AWG)
Wire Length: 300mm
Motor Protection: Auto Restart / Polarity Protection
Dielectric Strength: 500VAC for 1 Minute
Insulation Resistance: 10M Ohms at 500VDC
Safety Certifications: UL, CUR, TUV, CE

The MF50151V1-1000C-A99 is engineered for compact electronic applications requiring reliable thermal dissipation, such as network switches, small form-factor power supplies, and embedded industrial controllers. Its compact 50mm footprint allows for seamless integration into dense server racks and telecommunications equipment where space is at a premium. Additionally, the MF50151V1-1000C-A99 is frequently utilized in medical instrumentation and optical projectors, ensuring critical components remain within safe operating temperatures without introducing excessive acoustic noise or vibration.

Supplemental Images

