

MB50101V2-000C-A99 SUNON 12VDC 50x50x10mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: [1011672189152](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

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Product Page:

<https://www.equipspares.com/product/mb50101v2-000c-a99-sunon-12vdc-50x50x10mm-maglev-axial-fan>

Product Description

The SUNON MB50101V2-000C-A99 is a DC Axial Fan engineered for precision thermal management in compact electronic assemblies. Utilizing SUNON's proprietary MagLev (Magnetic Levitation) bearing technology, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction, noise, and vibration while extending operational lifespan. The 50mm frame offers superior structural rigidity, housing an optimized impeller designed to maximize airflow efficiency against system resistance. With a rated power of 1.26W, it delivers a balanced performance profile, ensuring low thermal impedance for sensitive components. This model is specifically calibrated for sustained operation, providing reliable cooling in environments requiring acoustic discretion and mechanical durability.

Model Number: MB50101V2-000C-A99

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Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 4.5 - 13.8 VDC

Rated Current: 0.105 A

Power Consumption: 1.26 W

Rated Speed: 4300 RPM \pm 15%

Bearing Type: MagLev (Vapo)

Max. Air Flow: 11.0 CFM (18.7 m³/h / 0.31 m³/min)
Max. Static Pressure: 2.79 mmH₂O (27.4 Pa / 0.11 inH₂O)
Dimensions: 50 x 50 x 10 mm
Weight: 20 g
Life Expectancy: 60,000 Hours at 40°C
Noise Level: 26.0 dB(A)
Frame Material: Thermoplastic PBT (UL94V-0)
Impeller Material: Thermoplastic PBT (UL94V-0)
Termination: 2-Wire Leads (Red +, Black -)
Wire Gauge: 26 AWG
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP50 (Standard Dust Protection)
Safety Certifications: UL, CUR, TUV, CE
Protection: Auto Restart, Polarity Protection

The MB50101V2-000C-A99 is frequently integrated into compact electronic enclosures where space constraints and acoustic performance are critical factors. Common deployment scenarios include the thermal regulation of medical instrumentation and diagnostic devices, ensuring stable operation without introducing electromagnetic interference. Additionally, the MB50101V2-000C-A99 serves as an effective cooling solution for high-intensity LED lighting arrays, preventing phosphor degradation due to heat accumulation. Its robust design also suits digital video recorders (DVRs) and small form-factor chassis, maintaining optimal operating temperatures for hard drives and processors in continuous-duty surveillance systems.

Supplemental Images

