

ME45101V1-000C-A99 Sunon 12VDC 45x45x10mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: 950739970649

Category: Axial & Centrifugal Fans

Price: \$13.99

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Product Description

The Sunon ME45101V1-000C-A99 is a precision-engineered DC Axial Fan designed for compact thermal management solutions. Utilizing Sunon's proprietary MagLev (Magnetic Levitation) motor technology combined with a Vapo bearing system, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction and noise while extending operational lifespan. The aerodynamic impeller geometry is optimized to deliver high airflow density relative to its 45mm frame, ensuring low thermal impedance in restricted spaces. Constructed with high-grade thermoplastic PBT, the frame offers superior structural rigidity and vibration damping, making it ideal for continuous duty cycles in demanding industrial and electronic environments.

Model Number: ME45101V1-000C-A99

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Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 4.5 - 13.8 VDC

Rated Current: 0.11 A

Power: 1.32 W

Rated Speed: 6000 RPM

Bearing Type: MagLev Vapo

Max. Air Flow: 11.0 CFM (18.7 m³/h / 0.31 m³/min)

Max. Static Pressure: 4.83 mmH₂O (47.4 Pa / 0.19 inH₂O)

Dimensions: 45x45x10mm

Weight: 14.0 g

Life Expectancy: 60,000 Hours at 40°C

Noise Level: 32.0 dBA

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Termination: 2-Wire Lead (Red +, Black -)

Wire Gauge: 26 AWG

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP5X

Safety Certifications: UL, CUR, TUV

Motor Protection: Impedance Protected; Reverse Polarity

The ME45101V1-000C-A99 is engineered for critical cooling applications where space constraints and reliability are paramount. Common deployments include compact server chassis, network switches, and embedded industrial controllers requiring consistent airflow. The ME45101V1-000C-A99 is also frequently utilized in portable medical devices, LED lighting arrays, and projector cooling systems, where its MagLev technology ensures quiet operation without compromising thermal performance.

Supplemental Images

