

MF40101VX-1000C-A99 SUNON 12VDC 40x40x10mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: 1013532892319

Category: Axial & Centrifugal Fans

Price: \$5.99

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Product Description

The SUNON MF40101VX-1000C-A99 is a precision-engineered DC axial fan designed for high-density electronic cooling applications requiring superior thermal impedance management. Utilizing SUNON's proprietary Magnetic Levitation (MagLev) Vapo bearing technology, this unit eliminates physical contact between the shaft and bearing during operation, significantly reducing friction, vibration, and noise generation while extending operational lifespan. The 40mm frame is constructed from durable thermoplastic, offering excellent structural rigidity and resistance to environmental stress. With a power rating of 1.17W, this fan delivers an optimized airflow-to-static pressure ratio, making it an ideal solution for compact systems where forced convection is critical for maintaining component stability.

Model Number: MF40101VX-1000C-A99

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Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 4.5 - 13.8 VDC

Rated Current: 0.098 A

Power Consumption: 1.17 W

Rated Speed: 8500 RPM $\pm$ 15%

Bearing Type: MagLev Vapo Bearing

Max. Air Flow: 9.9 CFM (16.8 m³/h / 0.28 m³/min)

Max. Static Pressure: 0.25 inH₂O (6.35 mmH₂O / 62.27 Pa)

Dimensions: 40 x 40 x 10 mm

Weight: 15.6 g

Noise Level: 31.4 dB(A)

Frame Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Ingress Protection: IP5X (Dust Protected)

Insulation Class: Class A

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

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

Wire Gauge: 26 AWG

Life Expectancy: 70,000 Hours at 40°C

Safety Certifications: UL, CUR, TUV, CE

Motor Protection: Auto Restart / Polarity Protection

The MF40101VX-1000C-A99 is specifically engineered for critical thermal management in compact industrial and consumer electronics. Its high static pressure capabilities make it suitable for network switches, routers, and 1U server rack enclosures where airflow is restricted by dense component layouts. Additionally, the MF40101VX-1000C-A99 is frequently utilized in precision power supply units, 3D printer hotend cooling, and embedded industrial automation systems, ensuring reliable heat dissipation and prolonged equipment longevity.

Supplemental Images

