

MF50151VX-1000C-F99 Sunon 12V 1.38W 50mm DC Axial Fan

SKU: MF50151VX-1000C-F99

Price: \$9.99

Categories: Fans

Tags: SUNON

Product Link:

<https://www.electspares.com/product/mf50151vx-1000c-f99-sunon-12v-1-38w-50mm-dc-axial-fan/>

Product Description

The Sunon MF50151VX-1000C-F99 is a high-velocity DC axial fan utilizing the patented MagLev (Magnetic Levitation) motor system and Vapo-Bearing technology. This 50 x 50 x 15 mm unit is engineered for superior thermal dissipation in compact environments, delivering a "Super High" speed of 7200 RPM. With a power consumption of 1.38 W at 12 VDC, it produces a significant 18.6 CFM airflow and 0.31 inH₂O static pressure. The 3-wire configuration includes a dedicated Tachometer (FG) signal for real-time rotation monitoring. Featuring a brushless DC motor and a precision-balanced 7-blade impeller, this fan provides high-speed stability and an extended operational lifespan, making it an essential component for high-performance 3D printers, small servers, and networking hardware.

MF50151VX-1000C-F99 Fan Parameters

Manufacturer: Sunon

Model Number: MF50151VX-1000C-F99

Type: DC axial fan

Bearing Type: Vapo Bearing (MagLev System)

Nominal Voltage: 12 VDC

Voltage Range: 4.5 - 13.8 VDC

Starting Voltage: 4.5 VDC

Dimensions: 50 x 50 x 15 mm

Weight: 33.1 g

[Electrical Data]

Input Power: 1.38 W

Nominal Current: 0.115 A

Max. Current: 0.135 A

Nominal Speed: 7200 RPM (Tolerance $\pm 15\%$)
Motor Design: Brushless DC Motor, 4-pole
Signal Output: FG (Frequency Generator/Tachometer)
Motor Protection: Auto Restart, Polarity Protection
Termination: 3-Lead wires (UL1007, AWG#26)

[Performance & Acoustics]

Max. Air Flow: 18.6 CFM (31.6 m³/h / 0.53 m³/min)
Max. Static Pressure: 7.87 mmH₂O (77.22 Pa / 0.31 inH₂O)
Sound Pressure Level: 38.1 dB(A)
Number of Blades: 7
Direction of Rotation: Counter-clockwise (viewed toward impeller)
Airflow Direction: Intake over struts

[Materials & Construction]

Frame Material: Thermoplastic PBT (UL94V-0)
Impeller Material: Thermoplastic PBT (UL94V-0)
Installation Position: Any
Degree of Protection: IP54

[Reliability & Safety Standards]

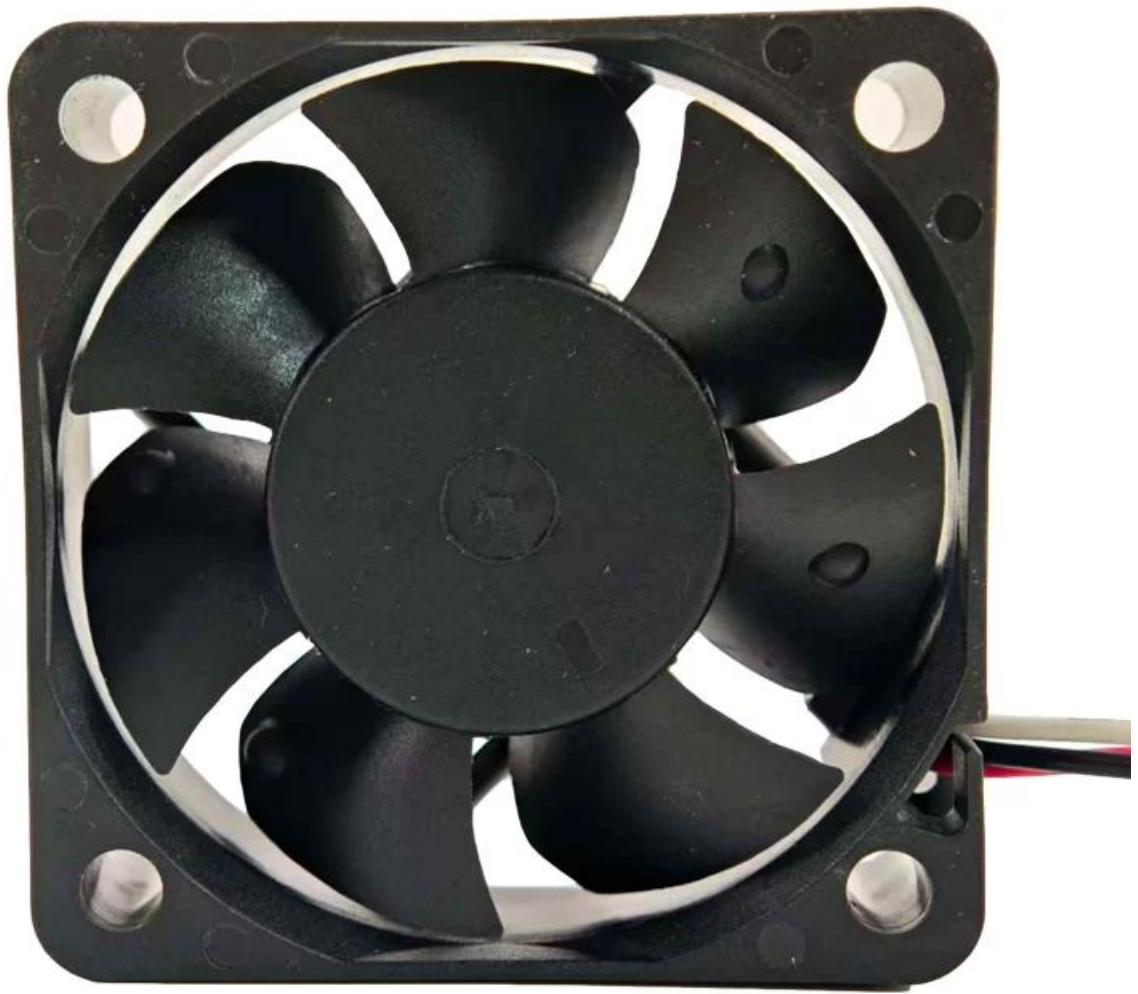
Min. Ambient Temperature: -10 °C
Max. Ambient Temperature: 70 °C
Life Expectancy (L10): 70,000 hours at 40 °C
Standard Compliance: IEC 60950-1, EN 61000-6-1/3
Approval Agency: UL, TUV, CE, RoHS

Application

The Sunon MF50151VX-1000C-F99 axial fan is used in high-performance 3D printer hotend cooling, small-form-factor servers, network switches, telecommunications power supplies, medical diagnostic equipment, and industrial workstations.

Product Images









Scan for product details:

