

MF45201VX-1C010-S99 SUNON 12VDC 45x45x20mm MagLev Blower Fan Datasheet



Brand: SUNON

SKU: [989388477788](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/mf45201vx-1c010-s99-sunon-12vdc-45x45x20mm-maglev-blower-fan>

Product Description

The SUNON MF45201VX-1C010-S99 is a high-efficiency DC Blower Fan engineered with SUNON's proprietary MagLev (Magnetic Levitation) motor technology. This advanced design eliminates physical contact between the shaft and bearing, significantly reducing friction, noise, and vibration while extending operational lifespan. Featuring a Vapo bearing system, the unit ensures exceptional structural rigidity and thermal impedance management, making it ideal for compact, high-heat environments. The aerodynamic impeller geometry is optimized to deliver concentrated static pressure, ensuring reliable cooling performance in restricted spaces where traditional axial fans fail to overcome system resistance. The unit is constructed with durable thermoplastic materials and includes precise speed control capabilities.

Model Number: MF45201VX-1C010-S99

Brand: SUNON

Product Type: DC Blower Fan

Series: MagLev (Magnetic Levitation System)

Rated Voltage: 12 VDC

Voltage Range: 6.0 - 13.8 VDC

Power Consumption: 1.85 W

Rated Current: 0.155 A

Rated Speed: 6000 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: 0.56 inH₂O (14.22 mmH₂O / 139.5 Pa)

Noise Level: 29.0 dB(A)

Dimensions: 45 x 45 x 20 mm

Weight: 23.0 g

Frame Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Life Expectancy: 60,000 Hours at 40°C

Termination: 4-Wire Lead (Red +, Black -, Yellow Sensor, Blue PWM)

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Insulation Class: Class A

Dielectric Strength: 500 VAC for 1 Minute

Safety Certifications: UL, CUR, TUV, CE

Protection: Auto-Restart / Polarity Protection

Designed for high-density electronic applications, the MF45201VX-1C010-S99 excels in scenarios requiring directed airflow against high back pressure. Common deployments include cooling solutions for portable projectors, ultra-slim laptops, and compact embedded systems where space is at a premium. The MF45201VX-1C010-S99 is also frequently utilized in network appliances, 1U server racks, and industrial automation equipment, ensuring critical components remain within safe thermal operating limits despite restricted ventilation paths.

Supplemental Images

