

MF50201V2-Q020-G99 Sunon 12V 1.62W 50mm DC Blower Fan

SKU: MF50201V2-Q020-G99

Price: \$11.75

Categories: Fans

Tags: SUNON

Product Link:

<https://www.electspares.com/product/mf50201v2-q020-g99-sunon-12v-1-62w-50mm-dc-blower-fan/>

Product Description

The Sunon MF50201V2-Q020-G99 is a high-performance DC Blower Fan with dimensions of 50 x 50 x 20 mm. Operating on 12 V DC with a rated power of 1.62 W, this centrifugal blower is part of the MagLev series, utilizing Sunon's patented Vapo bearing system for high reliability and quiet operation. Designed for high static pressure output, it provides an efficient and focused thermal management solution for 3D printers, small projectors, and high-density industrial electronics where space is at a premium.

MF50201V2-Q020-G99 Fan Parameters

Model: MF50201V2-Q020-G99

Manufacturer: Sunon

Type: DC Blower Fan

Series: MagLev Series

Dimensions: 50 x 50 x 20 mm

Nominal Voltage: 12 V DC

Operating Voltage Range: 4.5 V DC to 13.8 V DC

Starting Voltage: 4.5 V DC

Rated Current: 0.135 A

Rated Input Power: 1.62 W

Motor Design: Brushless DC, 4-pole Motor

Rated Speed: 4000 RPM

Max. Airflow: 7.3 m³/h (4.3 CFM)

Max. Static Pressure: 62 Pa (0.25 inAq)

Noise Level: 24.5 dB(A)

Bearing Type: Vapo Bearing (MagLev System)

Insulation Class: Class A (105 °C)

Insulation Resistance: 10M ohm at 500 VDC between internal stator and lead wire (+)

Dielectric Strength: 500 VAC for one minute or 600 VAC for 2 seconds

Electrical Protection: Auto Restart, Polarity Protection, Locked Rotor Protection

Termination: 3 Wire Leads (UL1007, AWG 26)

Sensor Type: Tachometer (Frequency Generator)

Frame Material: Thermoplastic PBT (UL 94V-0)

Impeller Material: Thermoplastic PBT (UL 94V-0)

Life Expectancy: 60,000 h (at 40 °C, 65% humidity)

Operating Temperature Range: -10 °C to +70 °C

Storage Temperature Range: -40 °C to +70 °C

Certifications: CE, TUV, UL/cUL, RoHS, REACH

Application

The Sunon MF50201V2-Q020-G99 blower is engineered for localized, high-static pressure thermal management. Due to its centrifugal design and low-noise MagLev motor, it is the primary choice for 3D printer hotend cooling, where air must be focused through narrow nozzles to cool layers rapidly. Its compact 50x20mm form factor and reliable Vapo bearing also make it highly suitable for high-end digital projectors, VR/AR headsets, and portable medical diagnostic devices. The integrated tachometer signal is critical for mission-critical systems such as compact server power supplies and networking hubs, allowing for real-time fan failure detection to prevent hardware damage.

Product Images









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