

EG50050S1-CJ20-S9A SUNON 5VDC 0.50A 50mm Blower Datasheet



Brand: SUNON

SKU: [999075201171](#)

Category: Axial & Centrifugal Fans

Price: **\$27.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page: <https://www.equipspares.com/product/eg50050s1-cj20-s9a-sunon-5vdc-0-50a-50mm-blower>

Product Description

SUNON EG50050S1-CJ20-S9A is a 5VDC 50mm Blower optimized for high-density thermal management in ultra-small form factor (USFF) computing environments. Engineered with SUNON's proprietary MagLev bearing architecture, this blower minimizes friction and vibration, ensuring long-term structural rigidity and reduced thermal impedance within cramped chassis. The aerodynamic impeller design is specifically tuned to deliver high static pressure required to push air through dense fin stacks. Operating at 2.50W with precise PWM speed control, it maintains optimal CPU temperatures in HP Pro Mini and EliteDesk series, balancing a high RPM profile with acoustic efficiency for professional workstations.

Model Number: EG50050S1-CJ20-S9A

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Product Type: DC Centrifugal Blower

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.50A

Power: 2.50W

Rated Speed: 5000 RPM

Bearing Type: MagLev VAPO Bearing

Max. Air Flow: 4.8 CFM

Max. Static Pressure: 12.4 mmH₂O

Dimensions: 50mm x 50mm x 5mm

Weight: 25g

Life Expectancy: 70,000 Hours at 40C

Speed Control: PWM (Pulse Width Modulation)

Feedback: Tachometer / Frequency Generator

Termination: 4-Pin / 4-Wire Connector

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10C to +70C

Storage Temperature: -40C to +70C

Protection Features: Auto Restart, Polarity Protection

Certifications: CE, TUV, UL, RoHS

Compatible Part Numbers: M85699-001, M88648-001, 914266-001

EG50050S1-CJ20-S9A Applications

1. Ultra-Small Form Factor (USFF) PC Maintenance: Ideal replacement fan for HP Pro Mini 400 G6 and EliteDesk 800 G3/G9 series where the 5mm low-profile geometry is critical for overcoming high system impedance in 1L chassis.
2. Micro-Server Thermal Regulation: Provides concentrated airflow for localized cooling of NVMe drives and VRM components in high-density rack-mounted micro-nodes.
3. Embedded Industrial Controllers: High static pressure capability ensures reliable heat dissipation in fanless-style enclosures that have been modified for active cooling requirements.

Supplemental Images

