

EG50050S1-CG70-S9A SUNON 5VDC 0.41A 50mm Blower Fan Datasheet



Brand: SUNON

SKU: [841908941386](#)

Category: Axial & Centrifugal Fans

Price: **\$19.99**

E-mail: sales@equipspares.com

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Product Description

SUNON EG50050S1-CG70-S9A is a 5VDC 50x50x5mm Blower Fan optimized for ultra-thin thermal management in mobile computing architectures. Engineered with SUNON's proprietary motor technology and advanced bearing architecture, this centrifugal blower addresses the high thermal impedance found in compact laptop chassis. The aerodynamic impeller design is specifically tuned to maintain structural rigidity while operating at 0.41A, delivering a concentrated 3.7CFM airflow to dissipate heat from integrated graphics chipsets. This unit provides the precise static pressure required to overcome the internal resistance of dense heat pipe arrays, ensuring stable clock speeds under heavy computational loads.

Model Number: EG50050S1-CG70-S9A

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Product Type: DC Blower Fan

Rated Voltage: 5 VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.41 A

Power: 2.05 W

Rated Speed: 4800 RPM

Bearing Type: MagLev / Vapo Bearing

Max. Air Flow: 3.7 CFM (6.29 m³/h)

Max. Static Pressure: 12.45 mmH₂O (122.1 Pa)

Dimensions: 50 x 50 x 5 mm

Weight: 25 g

Life Expectancy: 50,000 Hours at 40°C

Speed Control: PWM Signal

Termination: 4-Pin 4-Wire Connector

Housing Material: UL94V-0 Thermoplastic

Blade Material: UL94V-0 Thermoplastic

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +70 °C

Protection Features: Auto-Restart, Locked Rotor Protection

Certifications: CE, TUV, UL Recognized

EG50050S1-CG70-S9A Applications

1. Dell Latitude 5410 Laptop Repair: Direct replacement fan for CN-0HHKD2, engineered to match the specific PWM curves and mounting points of the Latitude 5410 integrated graphics cooling module.
2. Ultra-Thin Embedded Systems: Ideal for 5mm height-restricted enclosures where high static pressure is required to push air through micro-fin heat sinks.
3. Mobile Workstation Maintenance: Provides a low-vibration cooling solution for optical precision components and sensitive integrated circuits in portable diagnostic equipment.

Supplemental Images

