

EG50050S1-C032-S9A Sunon 5VDC 50mm 4-Wire Blower Fan Datasheet



Brand: SUNON

SKU: 660150911700

Category: Axial & Centrifugal Fans

Price: \$21.99

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Product Page:

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Product Description

The Sunon EG50050S1-C032-S9A is a precision-engineered DC centrifugal blower designed for high-density thermal management in compact electronic assemblies. Utilizing Sunon's proprietary MagLev bearing technology, this unit eliminates physical contact between the rotor and stator, significantly reducing friction and acoustic noise while enhancing structural rigidity and lifespan. The 5VDC motor integrates a 4-wire PWM control interface, allowing for dynamic speed modulation based on real-time thermal impedance. Optimized for restricted airflow environments, its aerodynamic impeller design delivers consistent static pressure, making it an ideal solution for ultra-thin computing architectures requiring reliable heat dissipation.

Model Number: EG50050S1-C032-S9A

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Product Type: DC Centrifugal Blower

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.40 A

Power Consumption: 2.0 W

Rated Speed: Variable (PWM Controlled)

Bearing Type: MagLev (Magnetic Levitation)

Max. Air Flow: 3.2 CFM

Dimensions: Custom Laptop Blower Form Factor

Termination: 4-Wire Lead

Connector: 4-Pin Proprietary Header

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (FG)

Material: PBT Plastic (UL94V-0)

Application: Dell Latitude E7440 / E7450

Operating Temperature: -10°C to +70°C

Mounting: 3-Point Screw Mount

This centrifugal blower is primarily utilized in mobile computing platforms, specifically serving as the OEM thermal solution for Dell Latitude E7440 and E7450 ultrabooks. The EG50050S1-C032-S9A ensures critical component cooling within the tight chassis constraints of modern laptops, effectively managing CPU and GPU temperatures. Beyond laptop repair, the EG50050S1-C032-S9A is suitable for custom DIY electronics, compact projectors, and portable instrumentation where low-profile, high-reliability active cooling is required to maintain operational stability.

Supplemental Images

