

EG50060S1-1C210-S9A SUNON 5VDC 50x50x6mm Blower Datasheet



Brand: SUNON

SKU: 1027143443934

Category: Axial & Centrifugal Fans

Price: \$17.99

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/eg50060s1-1c210-s9a-sunon-5vdc-50x50x6mm-blower>

Product Description

SUNON EG50060S1-1C210-S9A is a 5VDC 50x50x6mm Centrifugal Blower optimized for localized thermal dissipation in ultra-thin mobile computing architectures. By maintaining a 2.5W power profile, this unit generates concentrated static pressure to overcome the high impedance of dense copper heat pipe fins. The integrated 4-wire PWM control allows for granular RPM adjustments, ensuring the fan scales its 0.5A current draw based on real-time CPU/GPU thermals to prevent heat soak. This 50x50x6mm 5VDC Centrifugal Blower utilizes a precision-engineered impeller to maintain laminar airflow, effectively mitigating the risk of turbulent noise in slim chassis environments. Integrated PWM Centrifugal Blower functionality ensures the system remains within safe operating temperatures during sustained 100% compute loads.

Model Number: EG50060S1-1C210-S9A

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Product Type: Centrifugal Blower

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.50A

Power: 2.5W

Rated Speed: 4500 RPM (Approximate)

Bearing Type: MagLev / Vapo Bearing System

Max. Air Flow: 4.2 CFM (Estimated for 50mm slim blower)

Max. Static Pressure: 12.5 mmH₂O (Estimated for high-impedance cooling)

Dimensions: 50mm x 50mm x 6mm

Weight: 25g

Life Expectancy: 50,000 Hours at 40C

Speed Control: 4-Wire PWM (Pulse Width Modulation)

Termination: 4-Pin Micro Connector

Housing Material: UL94V-0 Thermoplastic

Blade Material: UL94V-0 Thermoplastic

Protection Features: Auto-Restart, Locked Rotor Protection

Operating Temperature: -10C to +70C

Storage Temperature: -40C to +70C

Certifications: CE, TUV, UL Recognized

Applications & Industry Use Cases

1. Acer TravelMate TMP414-53: Direct replacement fan for maintaining factory-spec thermal envelopes in professional laptops.
2. Acer TravelMate TMP214-55: Critical cooling component to prevent thermal throttling during intensive multi-tasking operations.
3. Acer P141RN-53: Precision-fit blower ensuring consistent airflow through restricted internal exhaust vents.
4. Ultra-Thin Notebooks: Ideal for 6mm height constraints where high static pressure is mandatory.
5. Embedded Mobile Systems: Reliable heat extraction for compact industrial tablets and portable diagnostic tools.
6. Telecom Edge Routing: Efficient spot cooling for localized processors in slim rackmount hardware.

Supplemental Images

