EG50050S1-C181-S9A SUNON 5VDC 0.56A 50mm Blower Datasheet

Brand: SUNON

SKU: 1008544898090

Category: Axial & Centrifugal Fans

Price: **$23.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/eg50050s1-c181-s9a-sunon-5vdc-0-56a-50mm-blower

Product Description

SUNON EG50050S1-C181-S9A is a 5VDC 50mm Blower optimized for ultra-thin thermal management in mobile workstations. This specialized cooling solution utilizes SUNON's proprietary motor technology and advanced bearing architecture to minimize thermal impedance within constrained internal volumes. The aerodynamic impeller design is engineered for structural rigidity, ensuring stable performance at a rated current of 0.56A. Delivering 6.4CFM of airflow, this blower effectively dissipates heat from high-density PCB components, maintaining system stability under heavy computational loads while providing a low-vibration profile essential for sensitive electronic environments.

Model Number: EG50050S1-C181-S9A
Brand: SUNON
Product Type: DC Blower Fan
Rated Voltage: 5VDC
Voltage Range: 4.5 - 5.5 VDC
Rated Current: 0.56A
Power: 2.8W
Rated Speed: 5200 RPM
Bearing Type: MagLev / Vapo Bearing
Max. Air Flow: 6.4 CFM (10.87 m^3/h)

Max. Static Pressure: 12.45 mmH_2O (122.1 Pa)
Dimensions: 50mm x 50mm x 5mm
Weight: 25g
Life Expectancy: 50,000 Hours at 40C
Speed Control: PWM (Pulse Width Modulation)
Termination: 4-Pin 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: Locked Rotor Protection, Auto Restart
Certifications: CE, TUV, UL

EG50050S1-C181-S9A Applications
1. Ultra-Thin Mobile Workstations: Specifically engineered as a replacement fan for Dell Precision 3570 and Latitude 5530 chassis to overcome high system impedance in slim-profile thermal modules.
2. Embedded Computing Systems: Ideal for low-profile industrial NUCs where high static pressure is required to force air through dense fin-stack heat sinks.

Supplemental Images