EF50150B1-1C01C-A99 SUNON 5VDC 50x50x15mm Blower Fan Datasheet

Brand: SUNON

SKU: 1014496457823

Category: Axial & Centrifugal Fans

Price: **$9.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/ef50150b1-1c01c-a99-sunon-5vdc-50x50x15mm-blower-fan

Product Description

The SUNON EF50150B1-1C01C-A99 is a precision-engineered DC Centrifugal Blower designed for high-impedance thermal management systems requiring concentrated airflow. Utilizing SUNON's proprietary MagLev (Magnetic Levitation) motor technology, this unit eliminates physical contact between the shaft and bearing, significantly reducing mechanical friction, acoustic noise, and thermal degradation. The chassis is constructed from reinforced thermoplastic PBT, ensuring structural rigidity and compliance with UL94V-0 flammability standards. Engineered for superior static pressure generation, it outperforms standard axial fans in restricted environments, making it essential for forcing air through dense heatsink fins or ducting. The brushless DC motor integrates advanced commutation logic to optimize energy efficiency while maintaining consistent rotational stability under varying load conditions.

Model Number: EF50150B1-1C01C-A99
Brand: SUNON
Product Type: DC Centrifugal Blower
Rated Voltage: 5 VDC
Voltage Range: 4.5 - 5.5 VDC
Rated Current: 0.33 A
Power Consumption: 1.65 W
Rated Speed: 5000 RPM ± 15%

Bearing Type: MagLev (Magnetic Levitation System)
Max. Air Flow: 4.2 CFM (7.13 m^3/h / 0.11 m^3/min)
Max. Static Pressure: 0.55 inH_2O (13.97 mmH_2O / 137 Pa)
Dimensions: 50x50x15 mm
Weight: 30.0 g
Noise Level: 36.5 dB(A)
Housing Material: Thermoplastic PBT (UL94V-0)
Impeller Material: Thermoplastic PBT (UL94V-0)
Ingress Protection: IP5X (Dust Protected)
Insulation Class: Class A
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: Lead Wires (UL1007, 26AWG)
Motor Protection: Auto Restart / Polarity Protection
Direction of Rotation: Counter-clockwise viewed from front of blade unit

This centrifugal blower is extensively utilized in compact electronic assemblies where directed cooling is critical, such as hotend cooling in 3D printers and optical cooling in portable projectors. The EF50150B1-1C01C-A99 excels in forcing air through ducts and heatsinks with high fin density, effectively overcoming significant back pressure. Additionally, the EF50150B1-1C01C-A99 is frequently deployed in small form-factor servers, medical instrumentation, and telecommunication modules, ensuring reliable thermal regulation for sensitive components during continuous duty cycles.

Supplemental Images