

EF50151B2-C01C-A99 SUNON 12VDC 50x50x15mm DC Blower Fan Datasheet



Brand: SUNON

SKU: [987511674757](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/ef50151b2-c01c-a99-sunon-12vdc-50x50x15mm-dc-blower-fan>

Product Description

The SUNON EF50151B2-C01C-A99 is a precision-engineered DC Blower designed for compact thermal management applications requiring concentrated airflow. Utilizing advanced motor technology and a durable ball bearing system, this unit ensures consistent performance and reduced mechanical friction, contributing to an extended operational lifespan. The 50mm centrifugal design optimizes static pressure capabilities, making it ideal for overcoming high system impedance in restricted enclosures. Constructed with robust thermoplastic materials, the blower maintains structural rigidity under thermal stress. Its aerodynamic impeller geometry minimizes turbulence and acoustic noise while maximizing air delivery, providing an efficient cooling solution for sensitive electronic components.

Model Number: EF50151B2-C01C-A99

Brand: SUNON

Product Type: DC Blower (Centrifugal Fan)

Rated Voltage: 12VDC

Voltage Range: 6.0 - 13.8 VDC

Power Consumption: 0.78 W

Rated Current: 0.065 A

Rated Speed: 4500 RPM ($\pm 15\%$)

Bearing Type: Precision Ball Bearing

Max. Air Flow: 3.2 CFM (5.4 m³/h / 0.09 m³/min)

Max. Static Pressure: 0.38 inH₂O (9.65 mmH₂O / 94.6 Pa)

Dimensions: 50 x 50 x 15 mm

Weight: 30.0 g

Noise Level: 28.5 dB(A)

Frame Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Ingress Protection: IP5X (Dust Protected)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Life Expectancy: 70,000 Hours at 40°C

Termination: 2-Wire Lead (Red +, Black -)

Wire Gauge: 26 AWG

Insulation Class: Class A

Safety Certifications: UL, CUR, TUV, CE

Motor Protection: Impedance Protected; Reverse Polarity Protection

Dielectric Strength: 500 VAC for 1 Minute

Direction of Rotation: Counter-clockwise viewed from front of fan blade

The EF50151B2-C01C-A99 is frequently integrated into compact electronic assemblies where directed airflow is critical for heat dissipation. Common deployments include 3D printer hotend cooling, small form-factor projectors, and portable medical instrumentation. The EF50151B2-C01C-A99 also serves effectively in telecommunications equipment and server rack spot cooling, ensuring reliability in continuous duty cycles.

Supplemental Images

