

LF50A12R SEPA 12VDC 50x50x10mm Silent Axial Fan Datasheet



Brand: SEPA

SKU: [1008918089750](#)

Category: Axial & Centrifugal Fans

Price: **\$5.99**

E-mail: sales@equipspares.com

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Product Page: <https://www.equipspares.com/product/lf50a12r-sepa-12vdc-50x50x10mm-silent-axial-fan>

Product Description

The SEPA LF50A12R is a precision-engineered DC axial fan designed for applications requiring minimal acoustic resonance and reliable thermal management. Utilizing advanced brushless DC motor technology, this unit optimizes airflow efficiency while maintaining an exceptionally low power consumption profile of just 0.36W. The structural rigidity of the 50mm frame ensures stability during operation, significantly reducing vibration-induced noise. Engineered with SEPA's specialized bearing architecture, typically the Hypro system, it delivers consistent performance and extended operational life. The aerodynamic blade geometry is calibrated to maximize static pressure delivery within compact enclosures, making it an ideal solution for sensitive electronic instrumentation where thermal impedance must be minimized without compromising acoustic standards.

Model Number: LF50A12R

Brand: SEPA

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.03 A

Power Consumption: 0.36 W

Rated Speed: 4200 RPM

Bearing Type: Hypro Bearing

Max. Air Flow: 8.83 CFM (15.0 m³/h / 0.25 m³/min)

Max. Static Pressure: 1.80 mmH₂O (17.65 Pa / 0.07 inH₂O)

Dimensions: 50x50x10mm

Weight: 20 g

Life Expectancy: 40,000 Hours @ 40°C

Noise Level: 23 dBA

Termination: 3-Wire Leads

Housing Material: Glass Fiber Reinforced PBT (UL94V-0)

Impeller Material: Glass Fiber Reinforced PBT (UL94V-0)

Operating Temperature: -10 to +60°C

Storage Temperature: -30 to +70°C

Ingress Protection: IP40

Insulation Resistance: 10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 min

This cooling solution is specifically tailored for compact electronic assemblies such as small form-factor computers, media centers, and precision industrial equipment. The LF50A12R excels in environments where space is at a premium and noise suppression is critical. Integrators frequently deploy the LF50A12R in network switches, DVR systems, and medical diagnostic devices to maintain optimal operating temperatures for sensitive chipsets while ensuring silent operation.

Supplemental Images

