

MFB50E-05 SEPA 5VDC 50x50x10mm Low Noise Axial Fan Datasheet



Brand: SEPA

SKU: 1010558602641

Category: Axial & Centrifugal Fans

Price: \$7.99

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Product Page:

<https://www.equipspares.com/product/mfb50e-05-sepa-5vdc-50x50x10mm-low-noise-axial-fan>

Product Description

The SEPA MFB50E-05 is a precision-engineered DC Axial Fan designed for compact thermal management applications requiring high reliability and acoustic discretion. Utilizing advanced motor technology, this unit operates at a rated voltage of 5VDC with a remarkably low current draw of 0.05A, ensuring minimal power consumption while maintaining optimal airflow dynamics. The 50x50x10mm frame is constructed for structural rigidity, housing an aerodynamically optimized impeller that reduces turbulence and operational noise. Engineered for longevity, the MFB50E-05 integrates a robust bearing architecture that minimizes friction and heat generation, thereby extending the operational lifespan and reducing thermal impedance in sensitive electronic assemblies. This fan is specifically calibrated to deliver consistent cooling performance in space-constrained environments.

Model Number: MFB50E-05

Brand: SEPA

Product Type: DC Axial Fan

Rated Voltage: 5 VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.05 A

Power Consumption: 0.25 W

Dimensions: 50 x 50 x 10 mm

Bearing Type: Precision Sleeve / Hypro (Variant Dependent)

Rated Speed: 4200 RPM (Nominal)

Max. Air Flow: 9.2 CFM (15.6 m³/h)

Max. Static Pressure: 2.1 mmH₂O (20.6 Pa)

Noise Level: 23.0 dBA

Termination: 2-Wire Lead

Frame Material: PBT (UL94V-0)

Blade Material: PBT (UL94V-0)

Operating Temperature: -10°C to +60°C

Storage Temperature: -20°C to +70°C

Life Expectancy: 40,000 Hours at 40°C

Weight: 20 g

Mounting Orientation: Any

Ingress Protection: IP40

The MFB50E-05 is frequently deployed in compact electronic enclosures where space constraints require a low-profile cooling solution. Its low power footprint makes it ideal for portable instrumentation, small-scale server rack components, and embedded IoT devices requiring consistent thermal dissipation. Additionally, the MFB50E-05 serves effectively in telecommunications equipment and medical diagnostic hardware, ensuring component stability by preventing localized hotspots in high-density circuit layouts.

Supplemental Images

