

MF20C-05LA SEPA 5VDC 20x20x10mm 3-Wire Micro Fan Datasheet



Brand: SEPA

SKU: 708589628326

Category: Axial & Centrifugal Fans

Price: \$34.99

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Product Page:

<https://www.equipspares.com/product/mf20c-05la-sepa-5vdc-20x20x10mm-3-wire-micro-fan>

Product Description

The SEPA MF20C-05LA is a precision-engineered Micro Axial Fan designed for applications requiring active cooling within extremely constrained spatial envelopes. Utilizing advanced DC brushless motor technology, this unit delivers consistent airflow while maintaining minimal power consumption of 0.30W. The 20mm frame architecture is constructed to ensure structural rigidity and optimal aerodynamic performance, significantly reducing thermal impedance in high-density electronic assemblies. Equipped with a 3-wire interface, this component supports tachometer signal output for real-time speed monitoring, ensuring reliability in critical thermal management systems. Its compact design and low-noise profile make it an ideal solution for mitigating heat buildup in miniature circuitry and optical devices.

Model Number: MF20C-05LA

Brand: SEPA (Nippon Keiki Works)

Product Type: Micro Axial Fan

Rated Voltage: 5 VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.06 A

Power Input: 0.30 W

Rated Speed: 8500 RPM (Nominal)

Bearing Type: Sleeve Bearing

Max. Air Flow: 0.85 CFM (1.44 m³/h)

Max. Static Pressure: 2.1 mmH₂O (20.6 Pa)

Dimensions: 20 x 20 x 10 mm

Weight: 5.0 g

Termination: 3-Wire Lead with Connector

Wire Function: Red (+), Black (-), Yellow (Signal/Tach)

Noise Level: 19.0 dBA

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

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

Operating Temperature: -10 to +60 °C

Storage Temperature: -20 to +70 °C

Insulation Resistance: 10M Ohms min @ 500VDC

Dielectric Strength: 500VAC for 1 minute

Life Expectancy: 30,000 Hours @ 25°C

This miniature cooling solution is specifically calibrated for integration into compact electronic devices where space is at a premium. The MF20C-05LA is frequently utilized in portable projectors, such as the Hitachi BV5 series, as well as handheld medical diagnostic equipment and chipset cooling for embedded systems. Additionally, the MF20C-05LA serves as a critical component in DVR systems, VR headsets, and optical drive cooling, ensuring sustained operation by effectively dissipating heat from sensitive logic boards and optical sensors without introducing significant acoustic noise.

Supplemental Images

