

FA09225M12LPF Cooler Master 12VDC 92x92x25mm PWM Axial Fan Datasheet



Brand: Cooler Master

SKU: 970502345393

Category: Axial & Centrifugal Fans

Price: **\$12.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/fa09225m12lpf-cooler-master-12vdc-92x92x25mm-pwm-axial-fan>

Product Description

The Cooler Master FA09225M12LPF is a precision-engineered Axial Fan designed for optimal thermal management in high-density electronic enclosures. Utilizing advanced DC motor technology coupled with a specialized bearing architecture, this unit ensures sustained rotational stability and reduced frictional coefficients during operation. The aerodynamic impeller design minimizes turbulence-induced noise while maximizing volumetric airflow, resulting in a superior thermal impedance profile. Constructed with high-grade thermoplastic materials, the frame offers exceptional structural rigidity, making it suitable for continuous operation in demanding environments requiring precise Pulse Width Modulation (PWM) speed regulation.

Model Number: FA09225M12LPF

Brand: Cooler Master

Product Type: Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.45 A

Power: 5.40 W

Rated Speed: 3200 RPM

Bearing Type: Rifle Bearing

Max. Air Flow: 58.4 CFM (99.2 m³/h / 1.65 m³/min)

Max. Static Pressure: 4.10 mmH₂O (40.2 Pa / 0.16 inH₂O)

Dimensions: 92 x 92 x 25 mm

Weight: 105 g

Life Expectancy: 40,000 Hours @ 40°C

Speed Control: 4-Wire PWM

Ingress Protection: IP40

Insulation Class: Class A

Noise Level: 36.5 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

Termination: 4-Pin Connector with Lead Wires

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Mounting Orientation: Any

Protection: Locked Rotor Protection, Polarity Protection

This cooling solution is engineered for critical heat dissipation in compact computing environments and industrial machinery. The FA09225M12LPF is frequently integrated into mid-tower server chassis, workstation CPU cooling arrays, and telecommunications equipment racks where space is constrained but airflow requirements are stringent. Additionally, the FA09225M12LPF serves as a reliable component in CNC control cabinets and medical instrumentation, ensuring sensitive electronics remain within safe operating temperature ranges through its efficient PWM-controlled airflow delivery.

Supplemental Images

