

DF1202512RFMN Cooler Master 12VDC 120mm 4-Wire Axial Fan Datasheet



Brand: Cooler Master

SKU: [886866917258](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/df1202512rfmn-cooler-master-12vdc-120mm-4-wire-axial-fan>

Product Description

The Cooler Master DF1202512RFMN is a precision-engineered DC axial fan designed for high-efficiency thermal management in demanding computing and industrial environments. Utilizing a robust motor architecture, this unit operates on a 12VDC platform, delivering variable speed performance ranging from 600 to 2000 RPM via a 4-wire PWM interface. The aerodynamic blade geometry is optimized to balance static pressure and airflow, minimizing turbulence-induced noise while maximizing heat dissipation. Constructed with durable materials to ensure structural rigidity, the DF1202512RFMN maintains low thermal impedance, making it an ideal solution for critical cooling applications requiring reliable, continuous operation.

Model Number: DF1202512RFMN

Brand: Cooler Master

Product Type: DC Axial Fan

Series: MasterFan 120 AB (Air Balance)

Rated Voltage: 12 VDC

Operating Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.37 A

Power Consumption: 4.44 W

Rated Speed: 600 - 2000 RPM ($\pm 10\%$)

Bearing Type: Rifle Bearing

Max. Air Flow: 66.7 CFM (113.32 m³/h)
Max. Static Pressure: 2.34 mmH₂O (22.95 Pa)
Dimensions: 120 x 120 x 25 mm
Weight: 160 g
Noise Level: 6 - 30 dBA
Termination: 4-Wire (PWM Control)
Connector: 4-Pin Motherboard Header
Blade Material: PBT (UL94V-0)
Frame Material: PBT (UL94V-0)
Life Expectancy: 160,000 Hours (MTTF)
Speed Control: Pulse Width Modulation (PWM)
Mounting Orientation: Any
Operating Temperature: -10°C to +70°C

The DF1202512RFMN is specifically engineered for integration into high-performance chassis ventilation systems and liquid cooling radiator setups where static pressure is paramount. Its variable speed capabilities allow the DF1202512RFMN to adapt dynamically to thermal loads, making it suitable for gaming workstations, server rack enclosures, and industrial control cabinets where precise airflow regulation is required to maintain optimal operating temperatures.

Supplemental Images

