

PMD2409PMB1-A.(2).F.GN Sunon 24V 12.2W 92mm DC Axial Fan

SKU: PMD2409PMB1-A.(2).F.GN

Price: \$15.99

Categories: Fans

Tags: SUNON

Product Link:

<https://www.electspares.com/product/pmd2409pmb1-a-2-f-gn-sunon-24v-12-2w-92mm-dc-axial-fan/>

Product Description

The Sunon PMD2409PMB1-A.(2).F.GN is a high-performance 24 V industrial axial fan with dimensions of 92 x 92 x 38 mm, purpose-built to deliver elite-level thermal cooling in high-resistance airflow paths. This unit features a heavy-duty brushless DC motor capable of sustaining a massive 12.2 W power output to drive its specialized 7-blade impeller at a consistent 4900 RPM. Engineered specifically to combat extreme backpressure, it generates a formidable 0.71 inH₂O static pressure, making it an ideal solution for pushing air through densely obstructed heatsinks and narrow chassis. The mechanical design relies on a precision-shielded dual ball bearing system and a fiberglass-reinforced PBT housing to ensure 70,000 hours of continuous operation at a 40 °C ambient temperature. Equipped with a standard 3-wire FG tachometer for real-time speed monitoring, this fan is a critical component for high-density blade servers, telecom rectifiers, and high-wattage industrial power supplies where maximum air density and reliability are non-negotiable.

PMD2409PMB1-A.(2).F.GN Fan Parameters

Manufacturer: Sunon

Model Number: PMD2409PMB1-A.(2).F.GN

Series: PMD (Power Motor Design)

Industry Size Code: 9238

Type: DC Axial Fan

Bearing Type: Dual Ball Bearing

Nominal Voltage: 24 VDC

Voltage Range: 10.0 - 27.6 VDC

Starting Voltage: 10.0 VDC

Dimensions: 92 x 92 x 38 mm

Weight: 190 g

[Electrical Data]

Input Power: 12.2 W

Nominal Current: 0.51 A

Max. Current: 0.60 A

Nominal Speed: 4900 RPM (Tolerance $\pm 10\%$)

Motor Design: Brushless DC Motor

Signal Output: FG (Frequency Generator/Tachometer)

Motor Protection: Auto Restart, Polarity Protection, Locked Rotor Protection

Insulation Class: Class A

Insulation Resistance: >10M ohm at 500 VDC

Dielectric Strength: 500 VAC for 1 minute

Termination: 3-Lead wires (UL1007, AWG#24, Red/Black/Yellow)

[Performance & Acoustics]

Max. Air Flow: 120.0 CFM (203.9 m³/h / 3.40 m³/min)

Max. Static Pressure: 18.03 mmH₂O (176.85 Pa / 0.71 inH₂O)

Sound Pressure Level: 57.6 dB(A) (Measured at 1 meter)

Number of Blades: 7

Direction of Rotation: Counter-clockwise (viewed toward impeller)

Airflow Direction: Intake over struts

[Materials & Construction]

Frame Material: Thermoplastic PBT (Black, UL94V-0)

Impeller Material: Thermoplastic PBT (Black, UL94V-0)

Installation Position: Any

Degree of Protection: IP54

[Reliability & Safety Standards]

Min. Ambient Temperature: -10 °C

Max. Ambient Temperature: 70 °C

Life Expectancy (L10): 70,000 hours at 40 °C

Standard Compliance: UL 507, CSA C22.2, EN 60950-1

Approval Agency: UL, TUV, CE, RoHS

Application

The Sunon PMD2409PMB1-A.(2).F.GN axial fan is used in high-density blade servers, cloud storage arrays, industrial power rectifiers, telecommunications base stations, and high-frequency medical equipment.

Product Images









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