

DS09225R12H AVC 12VDC 92x92x25mm Hydraulic Bearing Axial Fan Datasheet



Brand: AVC

SKU: 991775593637

Category: Axial & Centrifugal Fans

Price: **\$13.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/ds09225r12h-avc-12vdc-92x92x25mm-hydraulic-bearing-axial-fan>

Product Description

The AVC DS09225R12H is a precision-engineered DC axial fan designed for high-efficiency thermal management in compact industrial and computing environments. Utilizing advanced hydraulic bearing technology, this unit offers a superior balance between operational longevity and acoustic performance compared to standard sleeve bearing alternatives. The rotor assembly is aerodynamically optimized to maximize static pressure while minimizing turbulence-induced noise, ensuring effective airflow through dense fin stacks or restricted enclosures. Constructed with a robust thermoplastic frame, the DS09225R12H maintains structural rigidity under thermal stress, reducing vibration transmission. Its integrated PWM control circuitry allows for dynamic speed modulation, optimizing the thermal impedance of the system by adjusting airflow based on real-time temperature demands.

Model Number: DS09225R12H

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.41 A

Power Consumption: 4.92 W

Rated Speed: 3800 RPM \pm 10%

Bearing Type: Hydraulic Bearing

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)

Max. Static Pressure: 3.81 mmH₂O (37.36 Pa / 0.15 inH₂O)

Dimensions: 92mm x 92mm x 25mm

Weight: 95 g

Noise Level: 40.0 dBA

Life Expectancy: 50,000 Hours at 40°C

Speed Control: 4-Wire PWM (Pulse Width Modulation)

Termination: 4-Pin Connector

Housing Material: PBT (UL94V-0)

Blade Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Protection: Locked Rotor Protection, Polarity Protection

The DS09225R12H is frequently deployed in mission-critical hardware such as server rack enclosures, workstation CPU cooling solutions, and telecommunications equipment where reliability is paramount. Its 92mm form factor makes the DS09225R12H ideal for mid-sized chassis ventilation and power supply unit cooling, effectively dissipating heat from sensitive electronic components. Additionally, the DS09225R12H serves as a robust replacement component for industrial automation controllers and medical instrumentation requiring consistent, modulated airflow.

Supplemental Images

