

DS08025R12U-P209 AVC 12VDC 80x80x25mm PWM Axial Fan Datasheet



Brand: AVC

SKU: [652785045654](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/ds08025r12u-p209-avc-12vdc-80x80x25mm-pwm-axial-fan>

Product Description

The AVC DS08025R12U-P209 is a high-performance DC axial fan engineered for critical thermal management in dense electronic enclosures and CPU cooling applications. Utilizing advanced hydraulic bearing architecture, this unit delivers exceptional rotational stability and longevity while mitigating frictional noise at high velocities. The aerodynamic impeller design is optimized to overcome significant system impedance, generating high static pressure required for heat sinks and restricted airflow channels. Integrated with a 4-wire PWM circuit, it allows for precise dynamic speed modulation, balancing thermal dissipation requirements with acoustic performance. The robust frame construction ensures structural rigidity under high-torque operation, making it an ideal solution for industrial computing and server environments.

Model Number: DS08025R12U-P209

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.70 A

Power Consumption: 8.40 W

Rated Speed: 4800 RPM ($\pm 10\%$)

Bearing Type: Hydraulic Bearing

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)
Max. Static Pressure: 9.81 mmH₂O (96.24 Pa / 0.39 inH₂O)
Dimensions: 80x80x25mm
Weight: 85 g
Life Expectancy: 50,000 Hours at 40°C
Speed Control: 4-Wire PWM (Pulse Width Modulation)
Noise Level: 44.0 dBA
Housing Material: PBT (UL94V-0)
Blade Material: PBT (UL94V-0)
Termination: 4-Pin Connector
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Mounting Orientation: Any
Protection: Locked Rotor Protection, Polarity Protection

The DS08025R12U-P209 is specifically designed for high-demand cooling scenarios such as server CPU heatsinks, workstation chassis, and industrial automation equipment. Its high static pressure capabilities make the DS08025R12U-P209 particularly effective in forcing air through dense fin arrays and tightly packed server racks where standard airflow fans would stall. Additionally, it is frequently utilized in telecommunications hardware and power supply units requiring reliable, continuous thermal regulation.

Supplemental Images

