

DS08025B12U-P501 AVC 12VDC 80x80x25mm 4-Wire Axial Fan Datasheet



Brand: AVC

SKU: [979160344908](#)

Category: Axial & Centrifugal Fans

Price: **\$8.99**

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Product Page:

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Product Description

The AVC DS08025B12U-P501 is a precision-engineered DC axial fan designed for high-density thermal management applications. Utilizing advanced dual ball bearing architecture, this unit ensures exceptional structural rigidity and prolonged operational lifespan under continuous load. The aerodynamic impeller geometry is optimized to minimize turbulence while maximizing static pressure, effectively reducing thermal impedance in restricted enclosures. Operating on a 12VDC platform with a 4-wire PWM control interface, the DS08025B12U-P501 delivers precise speed modulation, balancing acoustic performance with aggressive cooling requirements. Its robust construction meets rigorous industrial standards, making it a reliable solution for critical electronic heat dissipation.

Model Number: DS08025B12U-P501

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.50 A

Power Consumption: 6.00 W

Rated Speed: 4400 RPM \pm 10%

Bearing Type: Dual Ball 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: 80 x 80 x 25 mm
Weight: 85 g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: 4-Wire PWM (Pulse Width Modulation)
Noise Level: 43.0 dB(A)
Housing Material: PBT (UL94V-0)
Impeller Material: PBT (UL94V-0)
Termination: 4-Wire Lead
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Safety Certifications: CE, UL, TUV
Protection: Locked Rotor Protection, Polarity Protection

This high-performance cooling solution is engineered for demanding environments such as rack-mounted server chassis, telecommunications base stations, and industrial automation control panels. The DS08025B12U-P501 excels in systems requiring variable speed control via PWM to manage thermal loads dynamically. Additionally, the DS08025B12U-P501 is frequently integrated into medical instrumentation and precision power supplies where consistent airflow and long-term reliability are paramount for component longevity.

Supplemental Images

