

AFB0512VHD-SE25 Delta 12VDC 50x50x20mm 0.24A Axial Fan Datasheet



Brand: Delta

SKU: 989988084221

Category: Axial & Centrifugal Fans

Price: \$9.99

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Product Page:

<https://www.equipspares.com/product/afb0512vhd-se25-delta-12vdc-50x50x20mm-0-24a-axial-fan>

Product Description

The Delta AFB0512VHD-SE25 is a DC Axial Fan engineered for critical thermal management in high-density electronic environments. Utilizing advanced motor technology and a precision-balanced impeller, this unit optimizes aerodynamic throughput while minimizing structural vibration and noise generation. The fan features a robust Dual Ball Bearing architecture, which significantly enhances operational longevity and reliability compared to sleeve bearing alternatives, making it suitable for continuous duty cycles. Constructed with a reinforced thermoplastic frame, the AFB0512VHD-SE25 offers superior structural rigidity and resistance to thermal deformation. Its design focuses on lowering thermal impedance within compact enclosures, ensuring efficient heat dissipation for sensitive components.

Model Number: AFB0512VHD-SE25

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.24 A

Input Power: 2.88 W

Rated Speed: 7000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 20.30 CFM (34.49 m³/h / 0.57 m³/min)

Max. Static Pressure: 7.70 mmH₂O (75.51 Pa / 0.30 inH₂O)

Dimensions: 50x50x20mm

Weight: 40 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 40.5 dB-A

Speed Control: Tachometer (Frequency Generator) Output

Termination: 3-Wire Lead

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Ingress Protection: IP40 (Standard)

Safety Certifications: UL, cUL, TUV, CE

Protection: Locked Rotor Protection, Polarity Protection

The AFB0512VHD-SE25 is specifically designed for applications requiring high static pressure in restricted spaces, such as 1U and 2U server racks, network switches, and industrial automation controllers. Its compact 50mm footprint allows for seamless integration into dense circuit board layouts where airflow paths are obstructed by heatsinks or cabling. Additionally, the AFB0512VHD-SE25 is frequently utilized in medical instrumentation and telecommunications equipment, where consistent cooling performance is mandatory to prevent system throttling or failure.

Supplemental Images

