

AFB0512HHB-F00 Delta 12VDC 50x50x15mm Tachometer Axial Fan Datasheet



Brand: Delta

SKU: 938187315368

Category: Axial & Centrifugal Fans

Price: **\$14.99**

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Product Page:

<https://www.equipspares.com/product/afb0512hbb-f00-delta-12vdc-50x50x15mm-tachometer-axial-fan>

Product Description

The Delta AFB0512HHB-F00 is a DC Axial Fan engineered for precision thermal management in compact industrial environments. Utilizing advanced brushless DC motor technology and a robust Dual Ball Bearing architecture, this unit ensures minimal friction and extended operational longevity under continuous load. The aerodynamic impeller design is optimized to reduce turbulence while maximizing static pressure, effectively lowering thermal impedance within high-density enclosures. Constructed with UL94V-0 rated thermoplastic, the housing offers superior structural rigidity and vibration resistance, making it an ideal solution for critical cooling applications requiring reliable airflow and signal feedback.

Model Number: AFB0512HHB-F00

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.20 A

Input Power: 2.40 W

Rated Speed: 6400 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 16.24 CFM (27.59 m³/h / 0.46 m³/min)

Max. Static Pressure: 5.92 mmH₂O (58.05 Pa / 0.23 inH₂O)

Dimensions: 50 x 50 x 15 mm

Weight: 38 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: F00 (Frequency Generator/Tachometer Output)

Noise Level: 36.0 dB-A

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Termination: 3-Wire Leads (Red +, Black -, Blue Tach)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Insulation Resistance: >10 Megohm

Dielectric Strength: 500 VAC for 1 Minute

Protection: Locked Rotor Protection, Polarity Protection

Designed for high-reliability environments, the AFB0512HHB-F00 is frequently deployed in variable frequency drives (VFDs), industrial inverters, and compact server chassis where space is at a premium. Its precise speed monitoring capabilities make the AFB0512HHB-F00 suitable for network switches, telecommunications equipment, and medical instrumentation requiring active thermal regulation and fan failure detection.

Supplemental Images

