

AFB02505HHA-TYNB Delta 5VDC 25x25x10mm Axial Fan Datasheet



Brand: Delta

SKU: [717771753343](#)

Category: Axial & Centrifugal Fans

Price: **\$15.14**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page: <https://www.equipspares.com/product/afb02505hha-tynb-delta-5vdc-25x25x10mm-axial-fan>

Product Description

Delta AFB02505HHA-TYNB is a 5VDC 25x25x10mm Axial Fan optimized for high-density thermal management in space-constrained electronic enclosures. This micro-cooling solution utilizes a brushless DC motor architecture paired with a precision dual ball bearing system to minimize thermal impedance and ensure long-term structural rigidity. Engineered for high-static pressure requirements, the AFB02505HHA-TYNB operates at a rated speed of 13000 RPM, drawing a nominal 0.24A to deliver 2.40 CFM of airflow. Its aerodynamic impeller design is specifically tuned to overcome the internal resistance of compact PCB layouts, making it an essential component for maintaining component reliability in miniature power supplies and portable diagnostic equipment.

Model Number: AFB02505HHA-TYNB

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 5 VDC

Voltage Range: 4.0 - 5.5 VDC

Rated Current: 0.24 A

Power: 1.20 W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 2.40 CFM (0.068 m³/min)

Max. Static Pressure: 5.50 mmH₂O (53.93 Pa / 0.217 inH₂O)

Dimensions: 25 x 25 x 10 mm

Weight: 8.0 g

Life Expectancy: 70,000 Hours at 40°C / 65% RH

Noise Level: 28.0 dB(A)

Housing Material: Plastic (UL 94V-0)

Blade Material: Plastic (UL 94V-0)

Termination: 2 Lead Wires (28 AWG)

Operating Temperature: -10 ~ +70 °C

Storage Temperature: -40 ~ +75 °C

Protection: Locked Rotor Protection, Reverse Polarity Protection

Insulation Class: Class A

AFB02505HHA-TYNB Applications

1. Handheld Medical Instrumentation: The high RPM-to-size ratio provides critical spot cooling for internal processors without increasing the device footprint.
2. Micro-Inverter Cooling: Ideal as a replacement fan for compact power conversion modules where high static pressure is required to push air through tightly packed inductors.
3. 1U Network Appliances: Optimized for overcoming high system impedance in ultra-slim rackmount hardware where vertical clearance is limited to 10mm.

Supplemental Images

