

BFB04512HHA-CW1C Delta 12VDC 45x45x10mm Blower Fan Datasheet



Brand: Delta

SKU: [817254321313](#)

Category: Axial & Centrifugal Fans

Price: **\$11.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/bfb04512hha-cw1c-delta-12vdc-45x45x10mm-blower-fan>

Product Description

The Delta BFB04512HHA-CW1C is a precision-engineered DC centrifugal blower designed for applications requiring concentrated airflow and high static pressure within a compact footprint. Featuring a robust brushless DC motor architecture paired with a durable dual ball bearing system, this unit ensures minimal friction and extended operational lifespan under continuous thermal loads. The aerodynamic impeller design optimizes air intake and exhaust efficiency, significantly reducing thermal impedance in compact enclosures. Constructed with high-grade thermoplastic materials, the housing maintains structural rigidity while effectively managing vibration, making it an ideal solution for thermal management in space-constrained industrial and electronic environments.

Model Number: BFB04512HHA-CW1C

Brand: Delta Electronics

Product Type: Centrifugal Blower

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.26 A

Power: 3.12 W

Rated Speed: 5500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 3.53 CFM (6.0 m³/h / 0.10 m³/min)

Max. Static Pressure: 12.5 mmH₂O (122.5 Pa / 0.49 inH₂O)

Dimensions: 45 x 45 x 10 mm

Weight: 18 g

Life Expectancy: 50,000 Hours at 40°C

Noise Level: 36.0 dB(A)

Termination: 2-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

Insulation Class: Class A

Ingress Protection: IP40

Safety Certifications: UL, cUL, TUV, CE

This centrifugal blower is widely utilized in precision cooling applications, most notably serving as a critical component for 3D printer part cooling and extruder thermal regulation. The BFB04512HHA-CW1C excels in directing airflow through narrow ducts to cool printed layers rapidly, preventing warping and improving print fidelity. Additionally, the BFB04512HHA-CW1C is suitable for cooling compact electronics, small projectors, and server rack hotspots where side-intake and concentrated exhaust are required to overcome system impedance.

Supplemental Images

