

BFB0512VHD-F00 Delta 12VDC 0.28A 50x50x20mm Blower Fan Datasheet



Brand: Delta

SKU: [890442356460](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

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Product Page:

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Product Description

The Delta BFB0512VHD-F00 is a specialized DC Brushless Blower Fan engineered for applications requiring concentrated airflow and high static pressure within a compact footprint. Utilizing a precision-balanced centrifugal impeller and a robust 2-Ball Bearing architecture, this unit ensures exceptional structural rigidity and longevity under continuous operation. The motor design incorporates advanced commutation electronics to minimize thermal impedance and vibration, delivering consistent performance in high-density environments. Featuring a tachometer signal output (F00) for critical RPM monitoring, the blower is housed in industrial-grade thermoplastic meeting UL94V-0 flammability standards, making it an ideal solution for thermal management systems where reliability and aerodynamic efficiency are paramount.

Model Number: BFB0512VHD-F00

Brand: Delta Electronics

Product Type: DC Centrifugal Blower

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.28 A

Power: 3.36 W

Rated Speed: 5500 RPM

Bearing Type: 2 Ball Bearing

Max. Air Flow: 6.5 CFM (11.04 m³/h / 0.18 m³/min)
Max. Static Pressure: 22.0 mmH₂O (215.7 Pa / 0.86 inH₂O)
Dimensions: 50x50x20mm
Weight: 35 g
Life Expectancy: 70,000 Hours @ 40°C
Speed Control: Tachometer Output (Frequency Generator)
Noise Level: 42.5 dB-A
Housing Material: PBT Thermoplastic (UL94V-0)
Impeller Material: PBT Thermoplastic (UL94V-0)
Termination: 3-Wire Leads (Red +, Black -, Blue/Yellow Tach)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Protection: Locked Rotor Protection, Reverse Polarity Protection

The BFB0512VHD-F00 is frequently deployed in space-constrained electronic assemblies such as 1U server racks, projector lamp cooling systems, and compact industrial automation equipment. Its ability to generate significant static pressure makes the BFB0512VHD-F00 particularly effective for forcing air through dense heatsinks or directing airflow into specific hot zones within medical devices and telecommunications hardware.

Supplemental Images

