

BSB04512VAERS Delta 8.5VDC 45x45x10mm Centrifugal Blower Datasheet



Brand: Delta

SKU: [979843512448](#)

Category: Axial & Centrifugal Fans

Price: **\$17.99**

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Product Page:

<https://www.equipspares.com/product/bsb04512vaers-delta-8-5vdc-45x45x10mm-centrifugal-blower>

Product Description

Delta BSB04512VAERS is a 8.5VDC 45x45x10mm Blower optimized for high-impedance thermal management in compact enclosures. This industrial-grade centrifugal fan utilizes advanced DC motor technology and a precision-engineered impeller to minimize thermal impedance while maintaining structural rigidity. Designed for continuous operation, it features a 4-wire interface for precise PWM speed control and tachometer feedback. Operating at 0.24A, this unit delivers concentrated airflow necessary for overcoming backpressure in restricted spaces. Its robust bearing architecture ensures long-term reliability in demanding environments like 3D printing heads and medical centrifuges.

Model Number: BSB04512VAERS

Brand: Delta

Product Type: Centrifugal Blower Fan

Rated Voltage: 8.5 VDC

Voltage Range: 7.0 - 9.5 VDC

Rated Current: 0.24 A

Power: 2.04 W

Rated Speed: 5500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 3.50 CFM (5.95 m³/h / 0.10 m³/min)

Max. Static Pressure: 12.50 mmH₂O (122.5 Pa / 0.49 inH₂O)

Dimensions: 45 x 45 x 10 mm

Weight: 25 g

Life Expectancy: 70,000 hours at 40°C

Speed Control: 4-Wire (PWM and Tachometer)

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Termination: 4-Lead Wires

Operating Temperature: -10 to +70 °C

Protection: Locked Rotor Protection, Reverse Polarity Protection

BSB04512VAERS Applications

1. 3D Printer Extruder Cooling: High static pressure overcomes the resistance of narrow ducting to provide rapid filament cooling and improved print quality.
2. Laboratory Centrifuges: Compact form factor and low-vibration operation maintain thermal stability for sensitive biological samples during high-speed rotation.
3. Portable Medical Devices: Reliable 8.5VDC operation for specialized battery-powered diagnostic equipment requiring concentrated airflow and a replacement fan with precise PWM control.

Supplemental Images

