

DBPB0938B8-Y004 AVC 48VDC 90x90x38mm PWM Axial Fan Datasheet



Brand: AVC

SKU: [656558353713](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/dbpb0938b8-y004-avc-48vdc-90x90x38mm-pwm-axial-fan>

Product Description

The AVC DBPB0938B8-Y004 is a high-performance DC axial fan engineered for mission-critical thermal management in industrial environments. Utilizing advanced dual ball bearing architecture, this unit ensures exceptional rotational stability and longevity under continuous operation. The aerodynamic impeller design is optimized to deliver substantial airflow while maintaining high static pressure, making it ideal for overcoming significant thermal impedance in densely packed enclosures. With a robust 48VDC motor system and integrated PWM speed control, the DBPB0938B8-Y004 offers precise thermal regulation, balancing cooling efficiency with energy consumption. Its structural rigidity and high-current capacity are specifically tailored for demanding applications requiring rapid heat dissipation.

Model Number: DBPB0938B8-Y004

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 36.0 - 56.0 VDC

Rated Current: 1.44 A

Power Consumption: 69.12 W

Rated Speed: 7500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 130.5 CFM (221.7 m³/h / 3.69 m³/min)

Max. Static Pressure: 38.5 mmH₂O (377.5 Pa / 1.51 inH₂O)

Dimensions: 90 x 90 x 38 mm

Weight: 280 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: 4-Wire PWM

Termination: 4-Pin Connector with Lead Wires

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP54

Noise Level: 62.5 dBA

Safety Certifications: CE, UL, TUV

Protection: Locked Rotor, Reverse Polarity

The DBPB0938B8-Y004 is specifically designed for high-impedance applications such as variable frequency drive (VFD) cooling and high-density server rack ventilation. Its high static pressure capabilities make the DBPB0938B8-Y004 an excellent choice for telecommunications equipment, industrial inverters, and precision medical instrumentation where reliable forced air convection is mandatory to prevent thermal throttling.

Supplemental Images

