DASA0510B2-P003 AVC 12VDC 50x50x10mm PWM Cooling Fan Datasheet

Brand: AVC

SKU: 990609181944

Category: Axial & Centrifugal Fans

Price: **$13.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/dasa0510b2-p003-avc-12vdc-50x50x10mm-pwm-cooling-fan

Product Description

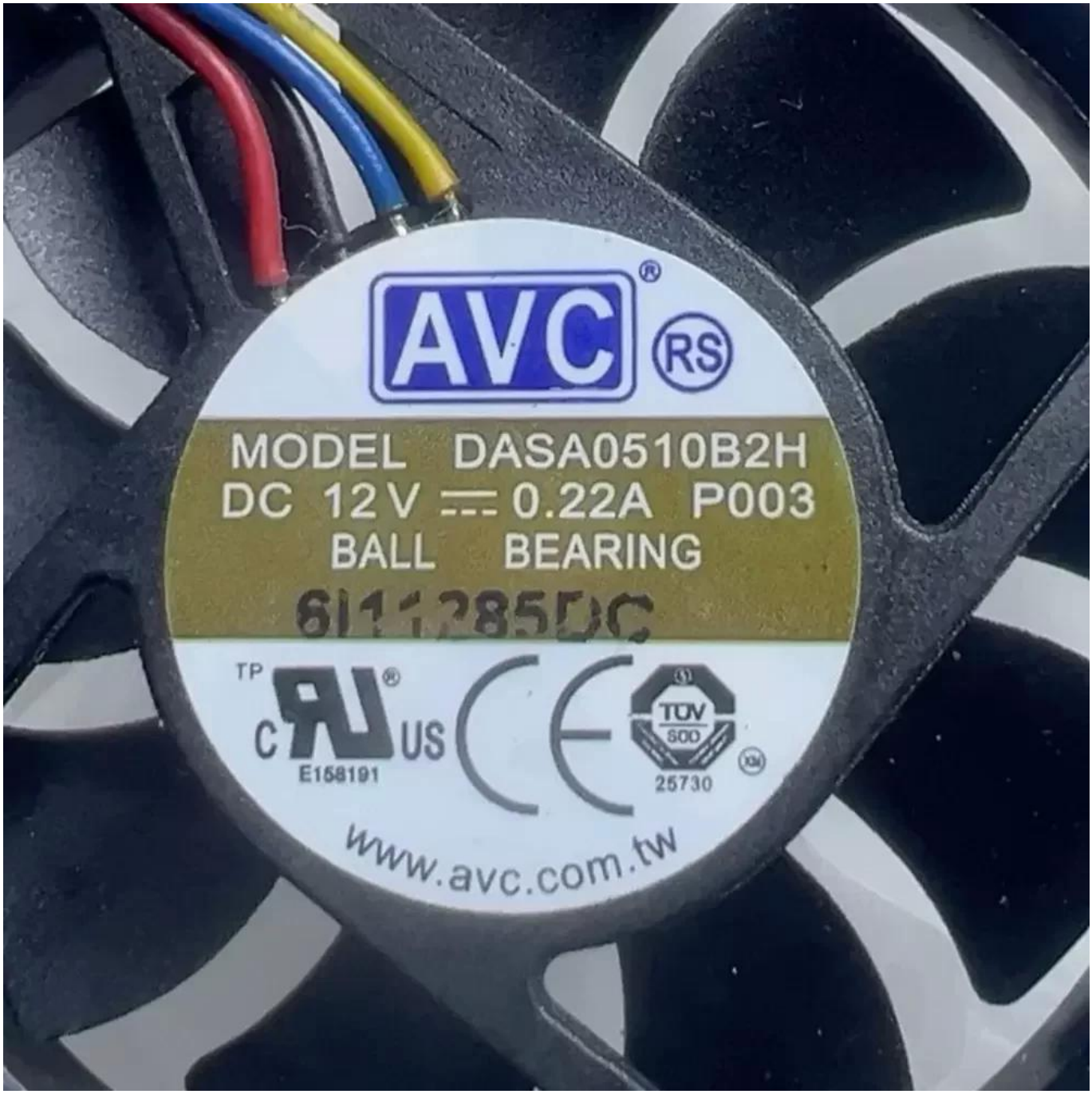
The AVC DASA0510B2-P003 is a high-efficiency DC Axial Fan designed to deliver robust thermal management in space-constrained electronic environments. Built upon a durable Dual Ball Bearing architecture, this motor design minimizes frictional wear and heat generation, significantly extending the operational lifespan compared to standard sleeve bearing counterparts. The unit features an aerodynamically optimized impeller that balances airflow generation with static pressure requirements, effectively reducing thermal impedance within dense component layouts. Engineered with structural rigidity and precision, the fan supports 4-wire PWM speed control, allowing for dynamic RPM adjustment to match real-time system cooling needs while optimizing power consumption.

Model Number: DASA0510B2-P003
Brand: AVC (Asia Vital Components)
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 7.0 - 13.2 VDC
Rated Current: 0.22 A
Power Consumption: 2.64 W
Dimensions: 50 x 50 x 10 mm
Bearing Type: Dual Ball Bearing

Termination: 4-Wire (PWM Control)
Speed Control: Pulse Width Modulation (PWM)
Max. Air Flow: 13.5 CFM (22.9 m^3/h / 0.38 m^3/min)
Max. Static Pressure: 3.56 mmH_2O (34.9 Pa / 0.14 inH_2O)
Rated Speed: 5500 RPM
Noise Level: 28.0 dBA
Housing Material: Thermoplastic PBT (UL94V-0)
Blade Material: Thermoplastic PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Life Expectancy: 70,000 Hours at 40°C
Mounting Orientation: Any
Ingress Protection: IP40

The DASA0510B2-P003 is specifically engineered for integration into compact hardware architectures such as 1U server chassis, network appliances, and precision medical instrumentation. Its slim 10mm profile allows it to fit into tight clearances within industrial automation controllers and small form-factor PCs where standard fans cannot be accommodated. By utilizing the PWM functionality of the DASA0510B2-P003, system integrators can achieve a balance between acoustic performance and cooling efficiency, making it an ideal solution for noise-sensitive telecommunications equipment and high-performance embedded systems.

Supplemental Images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