

BAAA0515R2U-001 AVC 12VDC 50x50x15mm 2-Wire Blower Datasheet



Brand: AVC

SKU: [856847680181](#)

Category: Axial & Centrifugal Fans

Price: **\$13.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/baaa0515r2u-001-avc-12vdc-50x50x15mm-2-wire-blower>

Product Description

The AVC BAAA0515R2U-001 is a precision-engineered DC centrifugal blower designed for applications requiring concentrated airflow and high static pressure within a compact footprint. Utilizing advanced aerodynamic principles, this unit minimizes thermal impedance by directing air at a 90-degree angle from the intake, making it highly effective for spot cooling and directed ventilation. The construction features a robust thermoplastic housing that ensures structural rigidity and vibration dampening during high-speed operation. Engineered for reliability, the motor assembly optimizes torque delivery while maintaining energy efficiency, making it an ideal solution for thermal management in space-constrained electronic devices, humidification systems, and precision instrumentation.

Model Number: BAAA0515R2U-001

Brand: AVC (Asia Vital Components)

Product Type: DC Centrifugal Blower / Turbine Fan

Rated Voltage: 12V DC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.27 A

Power Consumption: 3.24 W

Rated Speed: 5500 RPM ($\pm 10\%$)

Bearing Type: Hydraulic Bearing

Max. Air Flow: 4.2 CFM (7.13 m³/h)
Max. Static Pressure: 14.5 mmH₂O (142 Pa)
Dimensions: 50 x 50 x 15 mm
Weight: 30 g
Noise Level: 38.5 dBA
Termination: 2-Wire (Red +, Black -)
Connector: Bare Wire / Standard 2-Pin (customizable)
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
Life Expectancy: 50,000 Hours at 40°C
Direction of Rotation: Counter-clockwise (viewed from blade)
Ingress Protection: IP40
Safety Certifications: CE, UL, TUV

This centrifugal blower is specifically calibrated for integration into compact appliances such as aromatherapy diffusers and humidifiers where directed airflow is critical for mist generation. The BAAA0515R2U-001 provides the necessary static pressure to force air through water chambers or narrow ducts found in medical nebulizers and small projection equipment. Additionally, the BAAA0515R2U-001 serves as an effective cooling solution for chipset cooling in servers, 3D printer part cooling, and small form-factor industrial electronics, ensuring consistent performance in continuous-duty environments.

Supplemental Images

