

YBL5015C24F YCCFAN 24VDC 50x50x15mm Silent Blower Fan Datasheet



Brand: YCCFAN

SKU: [794289390360](#)

Category: Axial & Centrifugal Fans

Price: **\$6.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/ybl5015c24f-yccfan-24vdc-50x50x15mm-silent-blower-fan>

Product Description

The YCCFAN YBL5015C24F is a precision-engineered DC centrifugal blower designed for compact thermal management applications requiring focused airflow and minimal acoustic resonance. Utilizing advanced brushless DC motor technology, this unit delivers consistent performance with a rated voltage of 24VDC and a remarkably low current draw of 0.05A, ensuring superior energy efficiency. The 50mm frame features a snail-shell aerodynamic design that optimizes static pressure generation while maintaining structural rigidity, directing air at a 90-degree angle from the intake. Engineered with a durable bearing system, specifically selected for silent operation, it minimizes mechanical friction and vibration. This blower is constructed with high-grade thermoplastic housing, meeting UL94V-0 flammability standards, making it suitable for sensitive electronic environments where thermal impedance must be actively managed within tight spatial constraints.

Model Number: YBL5015C24F

Brand: YCCFAN

Product Type: DC Centrifugal Blower

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.05 A

Power Consumption: 1.20 W

Rated Speed: 4500 RPM

Bearing Type: Sleeve Bearing

Max. Air Flow: 3.2 CFM (5.4 m³/h / 0.09 m³/min)

Max. Static Pressure: 10.5 mmH₂O (102.9 Pa / 0.41 inH₂O)

Dimensions: 50 x 50 x 15 mm

Weight: 28 g

Noise Level: 25.0 dBA

Termination: 2-Wire Lead (Red +, Black -)

Wire Length: 300 mm

Housing Material: PBT Thermoplastic UL94V-0

Blade Material: PBT Thermoplastic UL94V-0

Insulation Resistance: >10M Ohm at 500VDC

Dielectric Strength: 5mA Max at 500VAC for 1 min

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Life Expectancy: 30,000 Hours at 25°C

Motor Protection: Impedance Protected

The YBL5015C24F is frequently integrated into compact electronic assemblies where directed cooling is critical and space is limited. Specifically, this blower is a standard component in 3D printing hotend cooling systems and part cooling ducts, where the YBL5015C24F provides the necessary static pressure to force air through narrow nozzles without excessive noise. Additionally, it is utilized in small-scale telecommunications equipment, humidifier ventilation, portable medical devices, and projector lamp cooling solutions. The compact footprint of the YBL5015C24F allows for seamless installation in space-constrained server racks and industrial control panels requiring localized hotspot mitigation.

Supplemental Images

