

YRD5015B12H YRC 12.5VDC 50x50x15mm Industrial Blower Fan Datasheet



SKU: [895153278342](#)

Category: Axial & Centrifugal Fans

Price: **\$6.99**

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Product Description

The YRC YRD5015B12H is a Blower Fan engineered for high-efficiency thermal management in space-constrained industrial environments. Utilizing a brushless DC motor architecture, this unit minimizes thermal impedance while maximizing structural rigidity through its reinforced thermoplastic housing. The dual ball bearing system ensures long-term operational stability and reduced friction across varying orientations. Its aerodynamic impeller design is optimized for concentrated airflow, making it ideal for localized cooling requirements. This component is designed to maintain consistent performance under continuous duty cycles, providing a reliable solution for critical electronic systems requiring precise air displacement and pressure.

Model Number: YRD5015B12H

Brand: YRC

Product Type: Blower Fan

Rated Voltage: 12.5VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.25A

Power: 3.125W

Rated Speed: 5000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 4.50 CFM (7.65 m³/h / 0.13 m³/min)

Max. Static Pressure: 12.50 mmH₂O (122.58 Pa / 0.49 inH₂O)

Dimensions: 50x50x15mm

Weight: 25g

Life Expectancy: 70,000 Hours at 40°C

Housing Material: UL94V-0 PBT Plastic

Blade Material: UL94V-0 PBT Plastic

Termination: Lead Wires

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Mounting Orientation: All Directions

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Certifications: CE, RoHS, UL

The YRC YRD5015B12H is specifically designed for integration into compact electronic assemblies such as 3D printers, medical diagnostic equipment, and small-scale server enclosures. In CNC control cabinets, the YRD5015B12H provides essential localized cooling for stepper drivers and power supply modules. Its robust construction also makes it suitable for telecommunications hardware where consistent airflow is required to prevent component degradation.

Supplemental Images

