

AD5012HB-D73 ADDA 12VDC 50x50x15mm 3-Wire Axial Fan Datasheet



Brand: ADDA

SKU: 822337787098

Category: Axial & Centrifugal Fans

Price: \$16.99

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Product Page:

<https://www.equipspares.com/product/ad5012hb-d73-adda-12vdc-50x50x15mm-3-wire-axial-fan>

Product Description

The ADDA AD5012HB-D73 is a precision-engineered DC Axial Fan designed for critical thermal management applications requiring sustained airflow and reliability. Utilizing advanced Brushless DC (BLDC) motor technology paired with a robust dual ball bearing architecture, this unit ensures minimal friction and extended operational lifespan under continuous load. The aerodynamic impeller design is optimized to reduce turbulence while maximizing static pressure, effectively lowering thermal impedance within dense electronic enclosures. Constructed with high-grade thermoplastic housing, the AD5012HB-D73 offers superior structural rigidity and vibration resistance, making it an ideal solution for industrial environments demanding consistent cooling performance and mechanical stability.

Model Number: AD5012HB-D73

Brand: ADDA

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.17 A

Power Input: 2.04 W

Rated Speed: 6000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 16.5 CFM (28.0 m³/h / 0.46 m³/min)
Max. Static Pressure: 5.59 mmH₂O (54.8 Pa / 0.22 inH₂O)
Dimensions: 50 x 50 x 15 mm
Weight: 28 g
Life Expectancy: 70,000 Hours @ 40°C
Noise Level: 34.0 dB(A)
Termination: 3-Wire (Lead Wires)
Wire Function: Red (+), Black (-), Yellow (FG/Tachometer)
Housing Material: PBT (UL94V-0)
Blade Material: PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP20
Safety Certifications: UL, CUL, TUV, CE

The AD5012HB-D73 is engineered to facilitate efficient heat dissipation in compact electronic assemblies where space is at a premium but airflow cannot be compromised. Common deployment scenarios include cooling chipsets in rack-mount servers, ventilating power supply units, and maintaining optimal operating temperatures in telecommunications equipment. The AD5012HB-D73 is also frequently utilized in industrial automation control panels and networked storage devices, ensuring component longevity by preventing thermal throttling in 24/7 operational environments.

Supplemental Images

