

AD0212HX-K50 ADDA 12VDC 25x25x6mm Hypro Bearing Axial Fan Datasheet



Brand: ADDA

SKU: [672075818311](#)

Category: Axial & Centrifugal Fans

Price: **\$12.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/ad0212hx-k50-adda-12vdc-25x25x6mm-hypro-bearing-axial-fan>

Product Description

The ADDA AD0212HX-K50 is a compact DC axial fan engineered for space-constrained applications requiring reliable thermal management. Utilizing ADDA's proprietary Hypro bearing technology, this unit balances structural rigidity with extended operational longevity, effectively bridging the gap between sleeve and ball bearing performance. The 25mm frame design incorporates optimized blade geometry to maximize airflow efficiency while maintaining a low thermal impedance profile. Operating at 12VDC, the motor assembly features precision winding to ensure consistent torque delivery and reduced electromagnetic interference. This specific model is tailored for high-density electronics where minimizing footprint is critical without compromising aerodynamic throughput.

Model Number: AD0212HX-K50

Brand: ADDA

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.11 A

Power: 1.32 W

Rated Speed: 10000 RPM

Bearing Type: Hypro Bearing

Max. Air Flow: 2.20 CFM (3.74 m³/h / 0.06 m³/min)

Max. Static Pressure: 2.80 mmH₂O (27.46 Pa / 0.11 inH₂O)

Dimensions: 25x25x6mm

Weight: 7.0 g

Life Expectancy: 40,000 Hours @ 40°C

Noise Level: 28.0 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

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

Wire Gauge: 28 AWG

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Mounting Orientation: Any

Protection: Impedance Protected

Ingress Protection: IP40

Compliance: RoHS, CE, UL, TUV

The AD0212HX-K50 is specifically designed for ultra-compact electronic assemblies where internal clearance is minimal. Its slim 6mm profile makes the AD0212HX-K50 an ideal solution for cooling chipsets in unmanned aerial vehicles (drones), handheld medical diagnostic devices, and miniature projectors. Additionally, this fan is frequently integrated into portable instrumentation and compact IoT sensor nodes requiring active ventilation to prevent thermal throttling.

Supplemental Images

