

WS2006A Winbond 5VDC 40x40x10mm Tachometer Axial Fan Datasheet



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Category: Axial & Centrifugal Fans

Price: **\$16.99**

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Product Description

The Winbond WS2006A is a compact Axial Fan engineered for precise thermal management in low-voltage electronic assemblies. Operating on a 5VDC platform, this unit utilizes an efficient DC brushless motor architecture designed to minimize electromagnetic interference while maintaining consistent airflow. The chassis features a standard 40mm footprint with a slim 10mm profile, ensuring compatibility with high-density circuit board layouts. Constructed to withstand continuous operation, the fan blade geometry is optimized to reduce turbulence and acoustic signature, effectively lowering thermal impedance in sensitive chipsets. Its 3-wire configuration supports tachometer signal output, allowing for real-time RPM monitoring and system integration for active cooling regulation.

Model Number: WS2006A

Brand: Winbond

Product Type: DC Axial Fan

Rated Voltage: 5 VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.03 A

Input Power: 0.15 W

Rated Speed: 4200 RPM (Estimated)

Bearing Type: Sleeve Bearing

Max. Air Flow: 4.8 CFM (8.15 m³/h / 0.13 m³/min)

Max. Static Pressure: 1.8 mmH₂O (17.6 Pa / 0.07 inH₂O)

Dimensions: 40 x 40 x 10 mm

Weight: 16 g

Life Expectancy: 30,000 Hours @ 25°C

Termination: 3-Wire Lead

Signal Output: Tachometer (RPM Sensor)

Mounting Orientation: Any

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Noise Level: 21 dBA

Motor Type: Brushless DC

The Winbond WS2006A is frequently deployed in compact electronic environments requiring targeted airflow for specific components. Common integration points include chipset cooling on legacy motherboards, embedded industrial controllers, and small form-factor network appliances where space is at a premium. The WS2006A is also suitable for DIY electronics projects and replacement of OEM fans in portable hard drive enclosures or DVR systems. Its low power draw makes the WS2006A ideal for battery-operated devices requiring active thermal dissipation without significant energy drainage.

Supplemental Images

