

PVB040A05M-P10-04 Foxconn 5VDC 40x40x10mm Blower Fan Datasheet



Brand: Foxconn

SKU: [757170608055](#)

Category: Axial & Centrifugal Fans

Price: **\$18.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/pvb040a05m-p10-04-foxconn-5vdc-40x40x10mm-blower-fan>

Product Description

The Foxconn PVB040A05M-P10-04 is a 5VDC 40x40x10mm Blower optimized for high-density thermal management in compact handheld electronics. Engineered with a precision DC brushless motor and advanced fluid dynamic bearing architecture, this unit minimizes thermal impedance within restricted airflow paths. The aerodynamic centrifugal impeller is designed for structural rigidity, ensuring stable 0.21A power consumption while maintaining the high static pressure required to exhaust heat from copper heat pipe assemblies. This model features integrated PWM speed control for dynamic thermal response, delivering efficient cooling at varying RPM levels to balance acoustic performance with heat dissipation requirements.

Model Number: PVB040A05M-P10-04

Brand: Foxconn

Product Type: Blower Fan

Rated Voltage: 5 VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.21 A

Power: 1.05 W

Rated Speed: 5500 RPM

Bearing Type: Fluid Dynamic Bearing

Max. Air Flow: 2.85 CFM (4.84 m³/h)

Max. Static Pressure: 6.42 mmH₂O (62.96 Pa)

Dimensions: 40 x 40 x 10 mm

Weight: 15 g

Life Expectancy: 40,000 Hours at 40°C

Speed Control: PWM Signal

Termination: 4-Pin Connector

Housing Material: UL94V-0 Thermoplastic

Blade Material: UL94V-0 Thermoplastic

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Certifications: CE, RoHS Compliant

PVB040A05M-P10-04 Applications

1. Nintendo Switch OLED Internal Cooling: Ideal replacement fan for overcoming high system impedance in compact gaming handhelds, ensuring the Tegra processor maintains optimal clock speeds without thermal throttling.
2. Ultra-Thin Embedded Systems: Provides a low-vibration cooling solution for 10mm height-restricted enclosures where axial fans cannot generate sufficient directional static pressure.
3. Portable Medical Diagnostics: Utilizes precision fluid bearings for quiet, reliable operation in handheld monitoring devices requiring localized heat extraction from micro-ASICs.

Supplemental Images

