

YY2510M05B SNOWFAN 5VDC 25x25x10mm Axial Fan Datasheet

**Brand:** SNOWFAN**SKU:** [890243228510](#)**Category:** Axial & Centrifugal Fans**Price:** **\$12.57****E-mail:** sales@equipspares.com**Web:** <https://www.equipspares.com>

Product Page: <https://www.equipspares.com/product/yy2510m05b-snowfan-5vdc-25x25x10mm-axial-fan>

Product Description

SNOWFAN YY2510M05B is a 5VDC 25x25x10mm Axial Fan optimized for precision thermal management in space-constrained micro-electronics. Utilizing advanced Fluid Dynamic Bearing (FDB) architecture, this unit minimizes mechanical friction and thermal impedance, ensuring long-term structural rigidity and silent operation. The aerodynamic PBT impeller is engineered to deliver a concentrated 1.6 CFM airflow while overcoming 4.2 mmH₂O static pressure. Integrated 4-wire PWM control allows for dynamic speed scaling from 0 to 9000 RPM, drawing a nominal 0.14A. This micro-fan is specifically designed for high-density integration where low-vibration and intelligent speed modulation are critical for component longevity.

Model Number: YY2510M05B

Brand: SNOWFAN

Product Type: Axial Fan

Rated Voltage: 5 VDC

Voltage Range: 4.3 - 5.4 VDC

Starting Voltage: 4.3 VDC

Rated Current: 0.14 A

Power: 0.65 W

Rated Speed: 9000 RPM

Bearing Type: FDB (Fluid Dynamic Bearing)

Max. Air Flow: 1.6 CFM (0.044 m³/min)

Max. Static Pressure: 4.2 mmH₂O (0.017 inH₂O)

Dimensions: 25 x 25 x 10 mm

Weight: 7.5 g

Life Expectancy: 40,000 Hours at 40°C

Noise Level: 26 dBA

Housing/Blade Material: PBT Plastic UL94V-0

Speed Control: PWM (Pulse Width Modulation)

Monitoring Output: Tachometer (FG Signal)

Termination: 4 Lead Wires (Red, Black, Yellow, Blue)

Connector: 1.25mm Pitch Terminal

Wire Length: 45 mm

Operating Temperature: -10 to +60 °C

Operating Humidity: 5% to 95% RH

Protection Features: Reverse Polarity Protection, Locked Rotor Protection

YY2510M05B Applications

1. Micro-SBC and IoT Gateways: The 25mm footprint and PWM speed control provide an ideal replacement fan for Raspberry Pi clusters or industrial IoT nodes requiring active cooling without excessive acoustic noise.
2. Handheld Medical Diagnostic Tools: FDB bearing technology ensures low-vibration performance, critical for maintaining the optical and sensor precision of portable medical imaging or analysis hardware.
3. VR/AR Headsets: The ultra-lightweight 7.5g construction and 5VDC compatibility allow for seamless integration into wearable tech to mitigate heat soak in high-performance mobile processors.

Supplemental Images

