

PF80251B1-000C-S99 SUNON 12VDC 80x80x25mm 4-Wire Axial Fan Datasheet



Brand: SUNON

SKU: [921118403217](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/pf80251b1-000c-s99-sunon-12vdc-80x80x25mm-4-wire-axial-fan>

Product Description

The SUNON PF80251B1-000C-S99 is a precision-engineered DC axial fan designed for high-density thermal management applications requiring robust airflow and static pressure. Utilizing SUNON's proprietary Magnetic Levitation (MagLev) motor technology, this unit eliminates physical contact between the rotor and stator, significantly reducing friction, vibration, and acoustic noise while extending operational lifespan. The 80mm chassis houses a reinforced thermoplastic impeller, optimized to deliver concentrated airflow in restricted environments. With a 4-wire configuration supporting Pulse Width Modulation (PWM) speed control, the PF80251B1-000C-S99 offers dynamic thermal regulation, balancing cooling efficiency with power consumption (4.1W). Its structural rigidity and high thermal impedance make it suitable for continuous duty in demanding industrial and computing environments.

Model Number: PF80251B1-000C-S99

Brand: SUNON

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.34 A

Power Consumption: 4.1 W

Rated Speed: 4800 RPM $\pm$ 10%

Bearing Type: MagLev (Vapo / Dual Ball Bearing System)

Max. Air Flow: 60.0 CFM (101.9 m³/h / 1.70 m³/min)

Max. Static Pressure: 0.41 inH₂O (10.4 mmH₂O / 102.1 Pa)

Dimensions: 80 x 80 x 25 mm

Weight: 91 g

Life Expectancy: 70,000 Hours @ 40°C

Termination: 4-Wire Leads (Red +, Black -, Yellow Tach, Blue PWM)

Speed Control: PWM (Pulse Width Modulation)

Ingress Protection: IP5X (Dust Protected)

Noise Level: 44.5 dB(A)

Housing Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Certifications: UL, CUR, TUV, CE

Designed for critical heat dissipation, the PF80251B1-000C-S99 is widely utilized in high-performance computing environments, including server racks, workstation chassis, and dense electronic enclosures. Its high static pressure capabilities make it ideal for forcing air through restrictive heatsinks and radiators found in industrial automation equipment and telecommunications power supplies. The PF80251B1-000C-S99 ensures component stability in medical instrumentation and CNC control systems where consistent thermal regulation is paramount for system reliability and longevity.

Supplemental Images

