

PF80381B1-Q021-S99 Sunon 12VDC 80x80x38mm 14.40W Axial Fan Datasheet



Brand: SUNON

SKU: [762483397481](#)

Category: Axial & Centrifugal Fans

Price: **\$15.99**

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Product Page:

<https://www.equipspares.com/product/pf80381b1-q021-s99-sunon-12vdc-80x80x38mm-14-40w-axial-fan>

Product Description

The Sunon PF80381B1-Q021-S99 is a high-performance DC axial fan engineered for critical thermal management in high-impedance systems. Utilizing a robust Dual Ball Bearing architecture, this unit ensures exceptional structural rigidity and operational longevity under continuous high-speed loads. The aerodynamic impeller design is optimized to deliver substantial static pressure while maintaining airflow efficiency, effectively mitigating thermal impedance in dense electronic enclosures. With a power rating of 14.4W and a precision-balanced motor, it provides reliable heat dissipation. The construction features durable thermoplastic PBT housing, meeting UL94V-0 flammability standards, making it an ideal solution for industrial applications requiring sustained cooling performance and mechanical durability.

Model Number: PF80381B1-Q021-S99

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Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 6.0 - 13.2 VDC

Rated Current: 1.20 A

Power Consumption: 14.4 W

Rated Speed: 9000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 132.0 CFM (224.2 m³/h / 3.73 m³/min)

Max. Static Pressure: 1.45 inH₂O (36.8 mmH₂O / 361 Pa)

Dimensions: 80 x 80 x 38 mm

Weight: 205 g

Life Expectancy: 70,000 Hours @ 40°C

Noise Level: 58.0 dB(A)

Speed Control: PWM / Tachometer Output

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Termination: 4-Wire Leads

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +70 °C

Motor Protection: Auto Restart / Polarity Protection

Insulation Class: Class A

Safety Certifications: UL, CUR, TUV

This heavy-duty cooling component is specifically designed for industrial and enterprise-grade hardware environments. The PF80381B1-Q021-S99 is widely utilized in server rack chassis, telecommunications base stations, and high-wattage power supply units where backpressure is a significant factor. Additionally, the PF80381B1-Q021-S99 serves as a critical cooling element in CNC machinery and medical instrumentation, ensuring optimal operating temperatures for sensitive electronic components.

Supplemental Images

