PF80381B2-Q050-S99 SUNON 12VDC 80x80x38mm PWM Axial Fan Datasheet

Brand: SUNON

SKU: 735850871066

Category: Axial & Centrifugal Fans

Price: **$16.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/pf80381b2-q050-s99-sunon-12vdc-80x80x38mm-pwm-axial-fan

Product Description

The SUNON PF80381B2-Q050-S99 is a precision-engineered DC Axial Fan designed for high-static pressure applications requiring optimized thermal impedance management. Utilizing advanced DC brushless motor technology and a robust dual ball bearing architecture, this unit ensures exceptional structural rigidity and operational longevity under continuous load. The aerodynamic impeller geometry is calibrated to maximize airflow efficiency while minimizing turbulence, making it an ideal solution for dense electronic enclosures where heat dissipation is critical. The integration of a 4-wire PWM control interface allows for dynamic speed modulation, balancing cooling performance with energy consumption.

Model Number: PF80381B2-Q050-S99
Brand: SUNON
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 10.2 - 13.8 VDC
Power Input: 7.80 W
Rated Current: 0.65 A
Rated Speed: 5500 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 88.0 CFM (149.5 m^3/h / 2.49 m^3/min)

Max. Static Pressure: 0.58 inH_2O (14.7 mmH_2O / 144.5 Pa)
Dimensions: 80 x 80 x 38 mm
Weight: 175 g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: 4-Wire PWM (Pulse Width Modulation)
Termination: 4-Wire Lead
Frame 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
Ingress Protection: IP Rating Optional
Noise Level: 49.0 dB(A)
Motor Protection: Polarity Protection, Locked Rotor Protection
Safety Certifications: UL, CUR, TUV, CE

This high-performance cooling solution is specifically engineered for deployment in demanding industrial environments such as rack-mounted servers, telecommunications base stations, and precision medical instrumentation. The PF80381B2-Q050-S99 excels in systems with high component density where overcoming system impedance is necessary to maintain optimal operating temperatures. Furthermore, the PF80381B2-Q050-S99 is frequently utilized in power supply units and CNC machinery control panels, ensuring reliable thermal regulation during extended operational cycles.

Supplemental Images