

PF40281BX-Q120-S99 Sunon 12VDC 40x40x28mm PWM Axial Fan Datasheet



Brand: SUNON

SKU: 848859104137

Category: Axial & Centrifugal Fans

Price: **\$12.99**

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Product Page:

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Product Description

Sunon PF40281BX-Q120-S99 is a 12VDC 40x40x28mm axial fan optimized for overcoming extreme thermal impedance in densely packed 1U server chassis. Engineered with an advanced brushless DC motor and precision bearing architecture, this compact unit delivers exceptional structural rigidity and aerodynamic efficiency under demanding continuous loads. Operating at a staggering 20000 RPM and drawing 10.8W, it generates massive static pressure to force airflow through restrictive heatsinks. The integrated 4-wire PWM control allows for dynamic thermal management, making it an ideal replacement fan for enterprise hardware requiring precise acoustic and cooling balance.

Model Number: PF40281BX-Q120-S99

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Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.2 VDC

Rated Current: 0.90A

Power: 10.8W

Rated Speed: 20000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 31.4 CFM (53.3 m³/h / 0.88 m³/min)

Max. Static Pressure: 71.3 mmH₂O (700 Pa / 2.81 inH₂O)

Dimensions: 40x40x28mm

Weight: 42g

Life Expectancy: 70000 Hours

Speed Control: 4-Wire PWM

Termination: 4 Lead Wires

Housing Material: UL94V-0 Thermoplastic

PF40281BX-Q120-S99 Applications

1. 1U Rackmount Servers: Overcomes high system impedance in densely populated chassis by utilizing the 20000 RPM motor to deliver extreme static pressure directly through CPU heatsinks.
2. High-Density Power Supplies: Provides rapid heat dissipation for compact power conversion modules, ensuring thermal stability under peak 10.8W load conditions.
3. Telecommunication Edge Routers: Acts as a reliable replacement fan for mission-critical networking equipment, leveraging 4-wire PWM control to dynamically adjust cooling based on real-time thermal loads.

Supplemental Images

