

KDE1204PKVX SUNON 12VDC 40x40x20mm PWM Axial Fan Datasheet



Brand: SUNON

SKU: [725127667906](#)

Category: Axial & Centrifugal Fans

Price: **\$15.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/kde1204pkvx-sunon-12vdc-40x40x20mm-pwm-axial-fan>

Product Description

The SUNON KDE1204PKVX is a DC Axial Fan engineered for high-reliability thermal management in space-constrained environments. Utilizing Sunon's proprietary Maglev (Magnetic Levitation) bearing architecture, this 40x40x20mm unit significantly reduces friction and vibration, enhancing structural rigidity and extending operational longevity. The fan operates on a 12VDC rail with a 1.1W power rating, featuring integrated PWM speed control for precise airflow modulation. Its aerodynamic impeller design minimizes thermal impedance, ensuring efficient heat dissipation. This industrial-grade component is designed for continuous duty cycles where acoustic stability and consistent performance are critical for maintaining system integrity.

Model Number: KDE1204PKVX 13.MS.B3745.AF.GN

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Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 4.5 - 13.8 VDC

Rated Current: 0.09 A

Power: 1.1 W

Rated Speed: 8200 RPM

Bearing Type: Vapo / Maglev

Max. Air Flow: 10.8 CFM (18.35 m³/h / 0.31 m³/min)

Max. Static Pressure: 7.11 mmH₂O (69.7 Pa / 0.28 inH₂O)

Dimensions: 40x40x20mm

Weight: 31 g

Life Expectancy: 60,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Tachometer: Yes

Noise Level: 33.0 dB(A)

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Termination: 4-Wire Lead Wires with 4-Pin Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Insulation Class: Class A

Protection Features: Auto Restart, Polarity Protection

The KDE1204PKVX is ideally suited for high-density electronic enclosures and telecommunications equipment where precise thermal regulation is mandatory. In server rack environments, the KDE1204PKVX provides targeted cooling for localized hotspots on motherboards and network switches. Its compact 4020 form factor also makes it a preferred choice for medical diagnostic devices and industrial power supplies that require consistent airflow within a small footprint. The integration of PWM functionality allows system controllers to dynamically adjust the fan speed based on real-time thermal loads, optimizing energy efficiency with the KDE1204PKVX.

Supplemental Images

