

U40X12MLZ7-52 Nidec 12VDC 40x40x10mm Silent Axial Fan Datasheet



Brand: Nidec

SKU: 690999930247

Category: Axial & Centrifugal Fans

Price: \$14.99

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Product Page:

<https://www.equipspares.com/product/u40x12mlz7-52-nidec-12vdc-40x40x10mm-silent-axial-fan>

Product Description

The Nidec U40X12MLZ7-52 is a compact Axial Fan engineered for precision thermal management in space-constrained electronic assemblies. Utilizing advanced DC brushless motor technology, this unit delivers consistent airflow while maintaining a low acoustic profile, essential for noise-sensitive environments. The frame construction ensures structural rigidity, minimizing vibration-induced noise, while the aerodynamic blade design optimizes static pressure to overcome thermal impedance in dense circuitry. This 12VDC cooling solution represents Nidec's commitment to reliability and efficiency in industrial and consumer electronics cooling.

Model Number: U40X12MLZ7-52

Brand: Nidec

Product Type: Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.05 A

Power Consumption: 0.60 W

Dimensions: 40x40x10mm

Bearing Type: Maintenance-Free Sleeve Bearing

Max. Air Flow: 4.2 CFM (7.13 m³/h / 0.11 m³/min)

Max. Static Pressure: 2.1 mmH₂O (20.5 Pa / 0.08 inH₂O)

Rated Speed: 4200 RPM

Noise Level: 18.0 dB(A)

Termination: 3-Wire Lead with Connector

Speed Control: Tachometer Signal (Speed Sensor)

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

Motor Type: DC Brushless

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Life Expectancy: 30,000 Hours at 40°C

Weight: 15 g

Mounting Orientation: Any

The U40X12MLZ7-52 is specifically designed for integration into compact electronic devices requiring active cooling without significant noise generation. Common deployment scenarios include chipset cooling in embedded systems, small form factor PC builds, and network appliance ventilation. The U40X12MLZ7-52 is also frequently utilized in medical instrumentation and audio-visual equipment where acoustic interference must be minimized. Its compact 40mm footprint allows the U40X12MLZ7-52 to fit seamlessly into tight enclosures found in industrial automation controllers and server rack auxiliary cooling banks.

Supplemental Images

