

RD4020B12SH Runda 12VDC 40x40x20mm Axial Fan Datasheet



Brand: Runda

SKU: [922077473275](#)

Category: Axial & Centrifugal Fans

Price: **\$6.99**

E-mail: sales@equipspares.com

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

Product Page: <https://www.equipspares.com/product/rd4020b12sh-runda-12vdc-40x40x20mm-axial-fan>

Product Description

The Runda RD4020B12SH is a precision-engineered DC Axial Fan designed for high-density thermal management applications requiring substantial airflow in a compact footprint. Featuring a robust thermoplastic housing and an optimized impeller geometry, this unit delivers consistent airflow while maintaining structural rigidity under thermal stress. The fan utilizes a durable dual ball bearing system, which significantly reduces the friction coefficient and extends the mean time between failures (MTBF) compared to standard sleeve bearing alternatives. Engineered for efficiency, the RD4020B12SH operates with a specialized DC motor driver that minimizes electromagnetic interference, ensuring reliable performance in sensitive electronic environments. Its compact form factor allows for integration into space-constrained enclosures requiring active cooling and low thermal impedance.

Model Number: RD4020B12SH

Brand: Runda

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.40 A

Power Input: 4.80 W

Rated Speed: 8500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 12.5 CFM (21.2 m³/h)

Max. Static Pressure: 0.35 inH₂O (87 Pa)

Dimensions: 40 x 40 x 20 mm

Noise Level: 38.5 dBA

Frame Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Termination: 2-Wire Leads (Red +, Black -)

Operating Temperature: -10°C to +70°C

Life Expectancy: 50,000 Hours at 40°C

Mounting Orientation: Any

The RD4020B12SH is frequently utilized in compact industrial electronics where high static pressure is required to overcome system resistance. Common deployment environments include 1U server rack power supplies, small form factor CNC controllers, and telecommunications switching equipment. The RD4020B12SH ensures critical components remain within safe thermal operating limits, preventing throttling in network routers and embedded medical devices.

Supplemental Images

