RDM4510B2 XINRUILIAN 12VDC 45x45x10mm 3-Wire Axial Fan Datasheet

Brand: Xinruilian

SKU: 959572802659

Category: Axial & Centrifugal Fans

Price: **$8.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/rdm4510b2-xinruilian-12vdc-45x45x10mm-3-wire-axial-fan

Product Description

The XINRUILIAN RDM4510B2 is a DC Axial Fan engineered for precision thermal management in compact electronic assemblies and industrial drive systems. Utilizing an advanced DC brushless motor architecture, this unit delivers consistent airflow while minimizing electromagnetic interference and power consumption. The construction features a durable thermoplastic housing designed to maintain structural rigidity under thermal stress, ensuring optimal blade alignment and reduced vibration during operation. Equipped with a high-reliability ball bearing system, the RDM4510B2 offers superior longevity and stable performance, effectively lowering thermal impedance in high-density inverter applications. Its aerodynamic blade geometry is optimized for efficient static pressure generation within a slim profile.

Model Number: RDM4510B2
Brand: XINRUILIAN
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 7.0 - 13.8 VDC
Rated Current: 0.09 A
Power Input: 1.08 W
Rated Speed: 5000 RPM
Bearing Type: Ball Bearing

Max. Air Flow: 8.5 CFM (14.4 m^3/h / 0.24 m^3/min)
Max. Static Pressure: 2.8 mmH_2O (27.5 Pa / 0.11 inH_2O)
Dimensions: 45x45x10mm
Noise Level: 26.0 dB(A)
Termination: 3-Wire (Lead Wire)
Signal Output: Tachometer (FG)
Housing Material: PBT Plastic (UL94V-0)
Blade Material: PBT Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Life Expectancy: 50,000 Hours @ 40°C
Weight: 18 g
Mounting Orientation: Any

This cooling solution is specifically designed for integration into variable frequency drives and industrial inverters where internal space is at a premium. The RDM4510B2 provides critical airflow to dissipate heat from sensitive power semiconductors and control boards, preventing thermal throttling in continuous-duty cycles. Additionally, the RDM4510B2 is suitable for compact server enclosures, telecommunications equipment, and precision medical instrumentation requiring reliable, low-profile cooling performance in confined chassis environments.

Supplemental Images